Stuyvenberg, Andrew

From: Palla, Robert
Sent: Monday, February 22, 2010 7:47 AM
To: 'Jones, Joe A'; 'nbixler@sandia.gov'
Cc: Ghosh, Tina; IPRenewal NPEmails
Subject: FW: Response to NYS's Request for SAMA-Related Documents (Email 1 of 3)
Attachments: IP MACCS2 Met Data 2000.zip; Section 3.3.B from IP3 TRM rev6.pdf; Section 2.6.5 from U-3 FSAR Rev.02.pdf; Section 3.3.A from IP2-TRM rev 9.pdf; 01-04MACCS2_Input.zip; 2010 02 16 Entergy Letter to NYS Re SAMA Data.pdf; HAS000313929mixapp_op.txt; 01-04MACCS2 _Output.zip

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From: Turk, Sherwin
Sent: Thursday, February 18, 2010 5:21 PM
To: Palla, Robert; Stuyvenberg, Andrew
Subject: FW: Response to NYS's Request for SAMA-Related Documents (Email 1 of 3)

From: Rund, Jonathan M. [mailto:jrund@morganlewis.com]
Sent: Tuesday, February 16, 2010 3:50 PM
To: 'John Sipos'; 'Janice Dean'; Turk, Sherwin; Mizuno, Beth; Roth(OGC), David; Harris, Brian; Jones, Andrea
Cc: Bessette, Paul M.; Sutton, Kathryn M.; 'wdennis@entergy.com'; O'Neill, Martin
Subject: Response to NYS's Request for SAMA-Related Documents (Email 1 of 3)

Attached is the cover letter to Entergy's response to New York State's letter dated February 8, 2010 seeking certain SAMA-related documents. I am also attaching the data files you have requested; however, based on the total size of these attachments, I will be sending you attachments in two additional emails. We also have sent you a hard copy of the letter, which includes a CD containing the documents you requested.

Please let us know if you have any questions.

Regards,

Jonathan M. Rund
Morgan, Lewis & Bockius LLP
1111 Pennsylvania Avenue, NW | Washington, DC 20004
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Hours of missing data =			128	128	7	7	81	81	179	7	7	15	15	15	49	42	2
Year	Day	Hour	WD-122	SIG-122	WD-60	SIG-60	**WD-10**	SIG-10	WS-122	WS-60	**WS-10**	**DT U/L**	DT U/I	DT I/L	TEMP.	DEW PT	**PRECIP**
2000	1	0	208.52	17.35	15.86	33.89	31.9	29.51	2.35	1.99	2.32	2.96	0.53	2.42	28.32	15.11	0
2000	1	1	138.11	11.34	34.4	17.38	29.66	35.3	2.42	3.15	2.81	2.18	0.48	1.71	27.68	15	0
2000	1	2	24.27	30.91	23.63	5.27	32.77	10.7	2.2	6.21	4.49	3	0.81	2.2	27.45	15.57	0
2000	1	3	51.93	18.8	19.18	8.98	96.43	24.45	3.07	4.85	3.19	2.45	1.41	1.03	27.55	15.85	0
2000	1	4	190.31	22.02	236.72	24.84	187.2	21.14	2.05	2.22	1.7	0.08	0.29	-0.2	28.15	16.43	0
2000	1	5	215.14	31.05	147.06	12.25	175.63	15.66	1.73	2.51	1.8	0.62	-0.01	0.63	26.89	16.65	0
2000	1	6	171.01	48.53	226.45	34.53	77.97	39.13	2.13	2.2	1.85	-0.74	-0.1	-0.64	27.7	17.61	0
2000	1	7	175.97	24.93	215.63	35.1	218.1	68.07	2.67	1.96	1.45	-0.75	0.04	-0.79	28.7	18.62	0
2000	1	8	180.61	13.8	201.29	15.7	196.86	20.68	3.88	3.94	3.08	-1.26	-0.14	-1.11	29.24	19.51	0
2000	1	9	178.98	10.61	204.17	13.12	202.17	19.86	5.96	5.86	4.32	-1.16	-0.06	-1.1	28.28	18.47	0
2000	1	10	172.76	11.47	198.38	20.94	202.34	22.1	5.4	4.38	3.57	-1.11	-0.19	-0.92	28.6	19.02	0
2000	1	11	168.53	12.4	177.07	15.17	183.4	19.79	4.84	3.74	3.1	-1.16	-0.29	-0.87	30.54	21.09	0
2000	1	12	154.01	15.8	157.66	20.11	164.35	42.22	3.93	3.32	2.53	-1.4	-0.29	-1.11	32.66	23.34	0
2000	1	13	137.38	39.06	225.84	50.05	300.35	56.8	2.69	2.36	2.27	-1.69	-0.67	-1.02	34.65	25.25	0
2000	1	14	145.59	13.89	229.46	30.92	261.9	33.56	3.88	3.07	2.72	-0.67	0.12	-0.79	36.34	27.06	0
2000	1	15	144.21	5.82	197.25	32.82	246.98	38.43	6.46	2.25	1.6	0.29	0.97	-0.69	38.63	28.42	0
2000	1	16	174.04	9.21	172.62	50.17	286.28	36.24	7.16	2.62	1.45	1.77	1.7	0.07	39.65	27.98	0
2000	1	17	196.56	4.74	179.98	16.73	204.08	51.85	7.6	4.1	1.6	3.96	0.93	3.04	39.2	28.01	0
2000	1	18	184.79	4.29	171.35	5.52	310.33	38.46	8.76	5.71	1.73	4.84	1.09	3.75	37.57	27.2	0
2000	1	19	168.15	4.82	169.74	11.14	348.35	15.01	6.92	3.28	2.06	5.45	1.56	3.89	36.31	26.46	0
2000	1	20	161.47	3.37	204.03	15.62	359.94	13.88	5.48	2.44	2.7	5.88	0.94	4.94	35.34	25.67	0
2000	1	21	170.42	4.49	341.51	51.57	9.81	10.89	4.39	1.45	3.26	7.26	0.72	6.53	33.28	23.77	0
2000	1	22	271.75	25.06	22.04	7.67	13.56	8.94	1.44	3.27	3.61	6.78	0.44	6.33	32.98	23.82	0
2000	1	23	231.56	40.47	4.62	13.09	46.79	26.41	2.1	2.96	2.66	6.17	0.94	5.24	32.78	23.48	0
2000	2	0	235.13	34.08	358.74	15.63	23.84	14.01	2.38	3.58	3.26	5.78	1.7	4.07	33.06	24.32	0
2000	2	1	71.94	25.54	21.74	9.45	25.31	34.38	2.75	5.21	2.72	4.31	2.43	1.88	33.58	24.75	0
2000	2	2	174.6	27.53	350.42	28.48	45.45	71.09	2	2.75	1.83	3.67	2.06	1.62	34.04	24.99	0
2000	2	3	187.72	16.52	354	20.88	95.07	37.32	2.64	1.54	1.04	3.28	3.55	-0.27	34.58	25.23	0
2000	2	4	330.6	51.57	44.31	14.4	16	34.39	1.21	1.93	1.06	5.57	3.78	1.79	1000	999.99	0
2000	2	5	15.74	16.28	63.76	12.51	22.82	38.77	1.72	1.73	1.06	2.86	0.66	2.2	1000	999.99	0
2000	2	6	76.57	38.3	325.56	44.54	3.68	41.26	1.49	1.53	1.27	4.7	3.23	1.48	1000	999.99	0
2000	2	7	167.59	27.35	224.05	42.29	121.78	45.13	1.81	1.74	1.2	1.37	1.48	-0.11	1000	999.99	0
2000	2	8	15.1	51.68	30.52	13.43	32.8	51.94	1.73	4.04	2.33	2.93	2.76	0.17	1000	999.99	0
2000	2	9	137.23	5.6	176.03	22.77	189.69	14.65	3.63	3.24	2.8	0.86	1.51	-0.65	1000	999.99	0
2000	2	10	146.76	4.76	162.49	25.84	176.65	24.08	3.99	2.66	2.19	0.85	1.82	-0.97	1000	999.99	0
2000	2	11	140.93	4.71	159.31	18.44	210.97	27.75	5.64	3.11	2.52	-0.28	0.21	-0.49	39.84	31.05	0
2000	2	12	144.75	8.05	175.4	22.87	232.06	29.83	5.46	3.41	2.94	-0.53	-0.13	-0.41	42.15	32.91	0
2000	2	13	143.91	7.66	167.51	20.05	226.42	31.45	8.16	5.31	3.69	1.58	1.19	0.39	44.71	34.51	0
2000	2	14	182.3	10.92	177.95	13.26	171.34	18.99	10.57	7.56	4.42	-0.05	0.14	-0.19	49.62	37.86	0
2000	2	15	182.33	5.36	179.99	7.85	166.86	11.57	16.34	12.39	5.54	-0.02	-0.14	0.12	51.78	38.95	0
2000	2	16	191.41	4.2	195.42	5.84	167.5	10.35	12.27	10.16	3.63	0.8	-0.56	1.36	51.38	39	0
2000	2	17	179.84	6.02	167.4	6.65	202.79	17.31	8.67	5.77	2.4	1.43	-0.27	1.71	50.39	38.24	0
2000	2	18	179.81	4.29	176.81	3.66	190.12	11.5	9.68	8.79	2.91	3.3	-0.18	3.48	48.36	37.35	0
2000	2	19	179.51	4.45	174.16	4.54	179.05	12.01	8.95	6.5	2.8	3.3	0.82	2.48	48.58	37.89	0
2000	2	20	183.51	5.79	168.26	5.82	279.5	52.5	9.64	5.83	2.15	4.72	1.51	3.21	48.34	38.04	0
2000	2	21	169.98	9.6	159.32	5.33	126.36	36.91	10.99	7.46	2.1	4.82	0.24	4.58	50.38	39.72	0

2000	2	22	172.97	9.77	168.91	6.09	162.96	12.66	12.32	9.89	4.63	0.98	-0.65	1.63	55.28	43.35	0
2000	2	23	181.18	6.59	179.62	5.16	172.88	9.08	16.74	16.15	7.93	1.61	-0.73	2.33	55.32	43.45	0
2000	3	0	185.24	6.68	184.53	6.38	171.64	9.76	17.47	15.52	8.06	-0.03	-0.76	0.73	57.07	44.49	0
2000	3	1	171.2	7.75	170.84	5.43	159.96	11.38	13.8	11.88	5.59	-0.04	-0.74	0.7	56.69	43.95	0
2000	3	2	173.84	6.35	174.36	4.46	166.46	11.41	16.61	15.31	7.36	-0.14	-0.67	0.52	56.37	43.98	0
2000	3	3	171.08	9.35	166.49	6.39	154.5	12.41	13.75	11.12	5.12	-0.11	-0.63	0.52	56.14	43.86	0
2000	3	4	168.27	7.98	163.39	6.12	151.76	14.08	12.46	10.29	4.88	0.13	-0.46	0.59	56.1	43.79	0
2000	3	5	168.67	6.17	160.79	7.87	152.14	46.12	10.34	7.38	3.06	0.73	0.3	0.43	54.82	43.27	0
2000	3	6	175.68	4.44	173.04	4.68	169.43	18.18	12.39	9.2	3.56	1.09	0.6	0.49	53.67	42.62	0
2000	3	7	181.27	4.33	171.65	3.44	200.1	46.71	10.3	7.41	2.76	1.8	0.65	1.15	52.43	42.3	0
2000	3	8	188.62	2.99	184.44	4.9	179.06	16.87	10.93	9.85	3.8	2.8	0.25	2.55	51.06	41.28	0
2000	3	9	185.35	4.85	174.03	8.95	170.53	26.92	9.57	7.7	2.88	1.29	0.42	0.87	52.37	42.23	0
2000	3	10	184.18	14.02	159.36	9.09	181.1	51.92	5.81	5.18	2.56	0.73	-0.17	0.91	53.09	42.75	0
2000	3	11	179.43	40.38	158.25	20.33	219.38	34.11	4.94	4.47	3.1	-0.46	-0.38	-0.07	54.35	43.76	0
2000	3	12	156.41	6.75	160.4	12.77	195.21	27.81	6.83	5.57	3.48	-0.63	-0.23	-0.4	55.44	44.36	0
2000	3	13	118.48	14.01	111.9	42.98	303.64	55.03	3.91	2.64	2.31	0.62	-0.41	1.03	55.35	44.52	0
2000	3	14	41.9	12.09	19.85	9.42	13.23	19.9	3.16	4.02	2.67	-0.28	-0.22	-0.05	56.69	45.34	0
2000	3	15	114.27	22.69	357.4	23.22	228.19	54.18	2.63	2.55	1.84	-0.13	-0.14	0.02	56.68	45.15	0
2000	3	16	255.58	37.63	28.11	19.39	103.41	43.1	1.5	2.23	1.56	-0.04	-0.24	0.2	56.49	44.91	0
2000	3	17	48.22	12.58	30.7	5.77	26.96	11.98	3.87	4.78	3.3	0.94	-0.26	1.2	55.8	44.89	0
2000	3	18	99.9	8.89	56.95	27.15	16	13.67	6.11	3.76	2.72	1.38	-0.28	1.66	55.16	44.81	0
2000	3	19	115.7	5.75	115.53	12.63	38.67	23.63	6.94	3.89	2.03	1.06	-0.56	1.62	54.89	44.53	0
2000	3	20	92.19	13.95	79.74	21.92	357.23	15.79	4.46	2.24	2.01	0.98	-0.76	1.75	54.19	44.05	0
2000	3	21	113.76	13.37	116.69	27.95	116.33	37.02	6.16	4.81	1.96	0.18	-0.74	0.92	53.94	44.01	0
2000	3	22	130.71	10.9	123.45	14.41	21.45	24.06	6.07	4.95	1.88	-0.04	-0.73	0.69	53.12	43.79	0
2000	3	23	154.45	4.5	166.74	8.51	171.92	19.61	7	6.03	2.92	0.12	0.21	-0.09	50.27	41.61	0
2000	4	0	142.99	7.85	172.52	7.23	178.66	25.54	4.9	5.86	2.18	0.5	0.61	-0.11	49.47	41.2	0
2000	4	1	109.99	18.05	149.37	26.98	177.18	53.15	5.41	3.37	1.96	0.1	0.45	-0.34	49.14	40.96	0
2000	4	2	114.37	11.42	135.83	24.22	230.72	41.5	7.82	3.77	2.09	0.38	0.17	0.21	48.6	40.42	0
2000	4	3	102.01	7.54	119.99	14.99	214.57	58.92	7.18	4.29	1.37	-0.43	-0.03	-0.39	49.36	41.09	0
2000	4	4	133.52	8.48	173.19	16.77	225.84	40.23	4.35	2.44	1.21	-0.79	-0.09	-0.71	49.62	41.18	0
2000	4	5	155.43	18.2	226.11	31.94	242.13	46.57	2.99	2.08	1.22	-0.59	-0.15	-0.44	49.63	41.16	0
2000	4	6	150.95	7.71	160.09	13.39	153.28	28.94	4.66	3.02	1.34	-0.82	0.01	-0.83	49.9	41.44	0
2000	4	7	159.43	6.84	164.18	11.72	192.9	34.33	6.71	3.86	1.93	0.36	0.94	-0.58	48.66	40.51	0
2000	4	8	161.38	8.36	177.82	8.54	186.74	22.29	9.87	7.49	3.67	1.16	1.25	-0.08	48.51	40.45	0
2000	4	9	151.9	5.8	164.72	10.41	182.9	17.37	14.14	9.32	5.78	1.17	1.37	-0.21	50.38	42.69	0
2000	4	10	154.95	5.72	161.99	10.93	190.75	23.04	14.18	9.83	5.04	1.17	0.91	0.26	52.52	44.75	0
2000	4	11	153.55	4.51	157.93	8.78	164.3	19.92	17.76	13.82	7.48	-0.14	0.36	-0.5	55.34	46.41	0
2000	4	12	150.32	3.33	156.39	7.73	155.71	17.35	20.36	15.76	7.86	-0.33	0.42	-0.75	55.85	46.46	0
2000	4	13	154.65	4.13	158.37	7.34	158.67	15.26	15.26	12.94	6.95	0.22	0.73	-0.51	56.21	46.49	0
2000	4	14	156.03	5.15	155.34	8.83	155.51	20.68	14.91	12.21	5.49	1.46	1.66	-0.2	57.41	47.05	0
2000	4	15	163.26	5.11	158.11	7.92	157.96	17.51	16.03	11.82	5.29	2.45	2.3	0.16	56.91	47.57	0
2000	4	16	161.1	3.94	158.3	7.05	156.67	15.69	15.21	13	6.46	1.9	1.99	-0.09	55.8	47.02	0
2000	4	17	183.85	36.61	193.24	37.54	207.54	42.87	16.1	13.35	6.58	0.19	0.34	-0.15	55.37	46.73	0.17
2000	4	18	290.16	22.29	305.22	27.84	313.98	48.57	18.15	14.68	6.94	-1.32	-0.99	-0.34	54.27	42.8	0.04
2000	4	19	303.31	27.04	322.42	37.89	358.58	46.09	10.29	8.09	4.24	-1.03	-0.9	-0.13	51.65	39.3	0.03
2000	4	20	265.71	21.64	266.15	24.7	237.78	37.29	7.35	5.7	3.27	-0.91	-0.87	-0.03	49.78	38.49	0.07
2000	4	21	271.41	32.07	266.11	38.72	217.27	62.3	7.79	5.85	3.04	-0.54	-0.75	0.21	48.82	38.44	0.02
2000	4	22	283.52	14.4	290.51	19.56	289.1	28.29	15.99	13.98	6.26	-0.81	-0.86	0.05	48.05	37.23	0.04

2000	4	23	310.8	14.38	320.39	17.18	321.07	30.18	13.38	11.87	5.14	-1.19	-1.01	-0.18	46.61	34.05	0.01
2000	5	0	323.58	16.21	336.57	16.88	338.45	24.77	14.26	13.13	6.48	-1.66	-1.03	-0.63	46.35	32.24	0
2000	5	1	309.19	12.34	322.04	13.25	323.55	22.77	19.54	17.97	7.81	-1.88	-1.1	-0.79	44.09	28.27	0
2000	5	2	296.9	14.68	307.91	16.87	306.85	32.94	19.26	16.46	7.63	-1.89	-1.12	-0.77	42.32	24.21	0
2000	5	3	308.83	18.71	322.31	20.27	324.7	35.05	18.08	15.51	7.02	-1.86	-1.08	-0.78	40.81	22.89	0
2000	5	4	306.75	16.28	319.4	17.62	318.64	30.13	18.65	16.86	8.06	-2.02	-1.12	-0.9	39.34	20.62	0
2000	5	5	302.19	13.37	311.43	15.61	308.7	31.83	21.01	18.89	8.33	-2.07	-1.15	-0.92	37.32	16.97	0
2000	5	6	302.13	15.93	313.2	17.5	313.41	34.35	18.3	16.1	7.3	-1.95	-1.14	-0.81	35.25	14.37	0
2000	5	7	300.45	16.63	312.75	17.58	310.99	32.74	18.83	16.45	7.27	-1.9	-1.12	-0.78	33.94	13.63	0
2000	5	8	307.93	16.56	317.83	18.84	317.97	30.43	19.89	17.42	8	-2.2	-1.16	-1.04	33.2	13.43	0
2000	5	9	309.5	13.83	320.3	13.92	321.13	27.49	24.05	22.48	9.95	-2.5	-1.16	-1.34	32.79	12.75	0
2000	5	10	308.29	12.81	321.06	14.25	322.17	27.24	24.03	21.85	9.51	-2.61	-1.19	-1.42	33.06	11.81	0
2000	5	11	312.18	10.81	325.34	12.26	320.97	24.57	25.69	24.65	10.51	-2.85	-1.17	-1.69	33.7	12.81	0
2000	5	12	315.76	12.35	328.34	13.22	328.56	24.15	22.91	21.7	9.91	-2.84	-1.15	-1.69	34.38	12.48	0
2000	5	13	306.63	8.97	317.8	13.01	317.74	23.78	25.11	23.46	10.04	-2.98	-1.19	-1.79	34.99	12.77	0
2000	5	14	303.44	14.41	315.16	16.46	314.41	28.59	20.63	18.64	8.34	-2.9	-1.24	-1.65	35.28	12.84	0
2000	5	15	305.49	9.94	317.5	12.82	313.8	27.21	25.01	23.2	9.5	-2.6	-1.18	-1.41	34.3	12.57	0
2000	5	16	323.1	12.82	337.33	13.8	336.86	26.33	17.63	16.58	7.9	-2	-1.08	-0.91	33.35	10.16	0
2000	5	17	314.25	18.95	323.63	21	322.22	35.98	14.74	14.08	6.73	-1.82	-1.08	-0.74	32.37	7.78	0
2000	5	18	305.64	13.89	318.03	16.76	322.52	31.72	12.82	11.36	5.29	-1.79	-1.12	-0.67	31.57	7.55	0
2000	5	19	313.05	13.83	322.43	14.58	326.63	27.47	14.68	13.56	5.98	-1.9	-1.16	-0.75	30.96	7.79	0
2000	5	20	312.71	18.87	322.24	23.56	318.15	34.06	9.87	8.7	4.52	-1.77	-1.09	-0.69	30.23	6.46	0
2000	5	21	306.73	19.08	314.44	20.71	316.53	34.59	9.26	8.78	4.42	-1.69	-1.04	-0.65	29.44	5.98	0
2000	5	22	309.21	8.8	322.37	10.41	335.01	29.66	9.98	9.41	4.21	-1.82	-1.14	-0.68	28.68	6.49	0
2000	5	23	353.65	16.73	10.29	16.25	18.76	24.98	7.86	7.28	4.19	-1.6	-0.98	-0.62	27.97	5.79	0
2000	6	0	12.02	12.67	19.59	13.3	19.38	23.17	10.03	8.74	5.72	-1.65	-0.94	-0.71	26.8	6.13	0
2000	6	1	11.76	14.12	29.97	17.11	32.77	26.14	5.35	5.4	3.12	-1.36	-0.87	-0.48	25.71	4.54	0
2000	6	2	38.67	10.93	53.22	11.76	72	20.07	4.18	4.41	2.96	-0.8	-0.81	0.01	24.71	4.15	0
2000	6	3	26	10.56	27.31	11.42	29.32	19.22	6.37	5.58	3.33	-0.62	-0.75	0.13	24.18	6.35	0
2000	6	4	22.92	9.63	18.89	11.38	23.73	18.82	5.4	5.06	3.29	0.13	-0.16	0.28	22.88	6.42	0
2000	6	5	35.31	12.83	25.68	10.47	40.17	20.97	4.65	4.59	3.13	0.36	-0.55	0.9	22.12	5.74	0
2000	6	6	115.53	12.12	87.78	14.88	54.4	15.93	5.77	5.2	3.31	0.2	-0.49	0.7	22.15	4.61	0
2000	6	7	140.61	37.97	76.24	35.97	27.57	19.13	2.13	2.69	2.48	-0.29	-0.63	0.34	22.11	5.8	0
2000	6	8	97.97	28.92	50.73	14.89	42.89	15.78	3.54	3.87	3.47	-0.47	-0.29	-0.18	22.63	7.79	0
2000	6	9	143.32	27.77	152.57	33.61	144	52.9	3.36	3.1	2.35	-2	-0.87	-1.13	25.4	7.4	0
2000	6	10	173.63	28.16	234.06	29.48	255.74	37.1	3.98	3.8	3.19	-1.88	-0.7	-1.17	27.91	10.2	0
2000	6	11	162.74	14.47	178.07	18.27	180.09	23.37	5.82	5.5	4.88	-2.45	-1.03	-1.42	32.14	11.37	0
2000	6	12	149.99	8.99	160.98	11.59	166.57	18.37	11.13	9.94	7.06	-3	-1.27	-1.73	35.44	15.4	0
2000	6	13	143.86	8.77	153.31	11.38	158.49	20.92	10.19	9.33	5.93	-2.94	-1.29	-1.64	37.66	17.55	0
2000	6	14	144.81	7.48	153.28	9.84	157.65	19.63	12.61	11.17	7.01	-2.74	-1.2	-1.55	39.93	19.95	0
2000	6	15	149.89	5.12	159.45	8.62	159.93	15.26	13.67	11.48	7.18	-2.34	-1.09	-1.25	40.29	21.35	0
2000	6	16	152.74	3.74	161.69	6.99	160.85	14.05	13.81	11.78	6.46	-1.38	-0.89	-0.49	39.55	21.37	0
2000	6	17	158.43	3.93	167.43	6.57	163.23	13.09	11.29	10.69	5.22	-0.86	-0.79	-0.07	38.83	22.03	0
2000	6	18	174.47	3.95	197.5	7.42	171.84	27.02	10.65	7.61	2.45	-0.39	-0.55	0.16	37.94	22.09	0
2000	6	19	195.96	8.81	252.16	21.64	29.02	43.58	6.49	3.81	1.53	0.32	-0.28	0.6	36.48	20.91	0
2000	6	20	196.37	6.39	201.6	18.65	163.43	55.84	6.92	2.46	1.43	1.86	0.01	1.85	34.25	20.63	0
2000	6	21	183.55	3.59	222.21	27.59	56.01	65.25	8.99	3.32	1.99	3.37	1.2	2.17	32.37	20.56	0
2000	6	22	177.69	3.48	213.55	27.55	38.19	49.46	7.54	2.9	2.01	3.02	1.07	1.96	32.29	20.44	0
2000	6	23	191.76	12.62	229.39	50.1	8.23	12.83	4.6	1.19	1.9	1.91	-0.26	2.17	32.04	19.99	0

2000	7	0	169.57	13.55	126.8	32.61	8.73	43.89	3.52	1.81	2.04	2.24	-0.45	2.69	31.67	19.94	0
2000	7	1	140.32	7.59	107.97	27.56	4.19	23.79	4.34	2.35	2.45	1.92	-0.1	2.01	32.35	20.53	0
2000	7	2	141.67	2.98	215.19	30.68	9.75	24.45	3.8	1.72	1.54	1.99	0.19	1.79	32.01	20.16	0
2000	7	3	148.3	2.92	245.36	31.59	356.31	58.47	3.62	1.41	1.24	1.8	-0.02	1.82	31.64	20.17	0
2000	7	4	178.06	9.2	240.44	30.49	91.05	39.78	3.84	1.43	1.07	1.75	0.09	1.66	31.58	20.15	0
2000	7	5	191.29	6.97	265.72	27.85	12.42	26.72	2.83	1.53	1.2	1.48	-0.13	1.6	31.27	20.05	0
2000	7	6	224.87	14.88	26.94	19.69	10.04	23.29	1.97	1.68	1.56	1.56	0.05	1.51	31.03	20.05	0
2000	7	7	179	10.6	157.43	10.01	359.6	32.28	2.44	1.88	1.22	0.79	0.03	0.75	31.42	20.73	0
2000	7	8	177.76	3.93	206.58	14.22	32.78	50.71	5.37	2.76	0.84	0.07	-0.25	0.33	31.95	21.3	0
2000	7	9	185.79	5.54	212.36	20.23	326.6	64.42	4.09	2.13	0.84	-0.47	-0.16	-0.31	32.83	22.42	0
2000	7	10	170.76	13.5	187.09	22.79	196.71	29.34	4.65	3.38	2.6	-1.36	-0.42	-0.94	34.53	23.83	0
2000	7	11	152.84	25.14	136.81	31.53	137.35	47.27	2.59	2.58	1.98	-1.78	-0.86	-0.92	36.11	24.5	0
2000	7	12	159.25	17.37	195.65	29.75	222.1	35.28	4.38	4.09	3	-1.54	-0.6	-0.94	37.66	25.62	0
2000	7	13	162.09	12.39	184.03	21.12	190.27	21.81	4.85	4.48	3.85	-1.98	-0.98	-1	40.56	26.79	0
2000	7	14	239.11	20.98	233.07	28.72	230.16	45.73	11.53	8.4	4.31	-0.59	-0.13	-0.46	43.77	26.14	0
2000	7	15	271.73	9.52	283.7	11.55	285.36	22.7	27.12	24.83	11.52	-1.98	-1.07	-0.91	46.49	21.54	0
2000	7	16	274.75	10.83	285.45	12.71	286.47	23.9	27.47	25	11.54	-1.74	-1.05	-0.69	43.45	20.58	0
2000	7	17	291.52	12.61	303.09	15	301.09	26.76	21.32	19.35	8.64	-1.92	-1.11	-0.81	40.04	21.89	0
2000	7	18	289.25	12.32	299.81	14.34	298.87	33.13	20.69	17.85	7.76	-1.75	-1.12	-0.63	38.54	20.17	0
2000	7	19	286.83	14.66	298.7	17.44	296.29	34.47	16.33	13.24	6.26	-1.66	-1.1	-0.57	37.79	16.73	0
2000	7	20	283.28	17.62	293.49	19.04	289.69	33.15	10.13	8.61	4.59	-1.59	-1.05	-0.54	36.85	15.41	0
2000	7	21	302.36	28.12	316.07	34.36	313.51	56.54	9.05	8.08	4.1	-1.59	-1.01	-0.58	36.27	13.65	0
2000	7	22	293.42	12.05	303.54	14.06	300.99	26.44	17.37	15.31	7.11	-1.76	-1.14	-0.62	35.38	13.14	0
2000	7	23	303.1	12.21	316.05	13.68	314.45	28.34	19.21	16.92	7.17	-1.84	-1.13	-0.71	34.3	11.79	0
2000	8	0	301.2	18.21	315.61	20.36	310.08	38.8	11.85	10.89	4.9	-1.68	-1.09	-0.58	33	10.23	0
2000	8	1	281.54	19.26	292.15	22.03	281.48	35.84	11.41	9.7	5.2	-1.58	-1.07	-0.51	32.09	9.12	0
2000	8	2	279.93	10.79	291.26	12.46	288.04	20.44	13.22	11.41	5.84	-1.68	-1.13	-0.55	31.58	9.49	0
2000	8	3	291.57	17.02	300.42	17.53	294.56	29.25	11.65	10.56	4.99	-1.58	-1.05	-0.53	30.71	8.99	0
2000	8	4	297.96	17.64	309.25	19.86	312.59	32.47	14.19	12.31	5.99	-1.73	-1.09	-0.65	30.06	8.23	0
2000	8	5	305.92	15.14	317.83	17.1	313.5	29.45	13.21	12.1	6.06	-1.84	-1.12	-0.72	29.59	8.05	0
2000	8	6	291.05	14.93	303.71	15.41	301.8	27.49	13.9	12.24	6.06	-1.83	-1.16	-0.67	29.17	7.73	0
2000	8	7	284.76	12.68	286.4	12.16	281.44	23.91	11.49	10.7	5.32	-1.67	-1.02	-0.65	28.59	6.99	0
2000	8	8	286.27	13.37	291.21	15.07	288.7	28.48	12.98	11.61	5.66	-2.03	-1.09	-0.94	29.53	8.28	0
2000	8	9	291.2	11.46	300.46	14.98	299.65	31.5	15.6	13.14	5.63	-2.65	-1.27	-1.38	31.53	10.73	0
2000	8	10	284.82	18.13	296.57	20.96	296.12	34.25	10.66	10.16	5.28	-2.82	-1.19	-1.63	33.02	10.88	0
2000	8	11	279.13	20.95	288.36	25.15	291.88	41.39	8.4	7.79	4.28	-2.87	-1.2	-1.67	34.53	11.74	0
2000	8	12	252.46	12.26	255.39	15.09	247.5	30.67	9.36	8.83	5.3	-3	-1.2	-1.8	35.76	11.9	0
2000	8	13	242.76	22.51	243.8	21.57	230.47	30.21	6.86	6.49	4.53	-2.55	-1.16	-1.4	36.8	12.21	0
2000	8	14	179.52	13.15	186.9	16.25	182.63	24.8	6.97	6.44	4.85	-2.6	-1.16	-1.44	37.84	13.25	0
2000	8	15	186.62	11.28	190.41	12.75	181.91	17.4	10.32	9.41	6.26	-2.41	-1.1	-1.32	38.66	14.25	0
2000	8	16	189.13	4.98	196.18	6.88	186.24	12.68	13.66	11.97	7.29	-1.47	-0.97	-0.5	37.9	13.59	0
2000	8	17	189.34	5.58	194.51	7.06	184.25	12.45	15.63	13.14	7.67	-1.21	-0.9	-0.31	36.62	14.01	0
2000	8	18	186.47	4.57	191.73	5.52	181.08	11.49	12.45	10.95	5.73	-0.97	-0.93	-0.05	35.52	13.78	0
2000	8	19	182.6	6.89	184.78	6.64	172.24	12	10.07	9.51	4.66	-0.91	-0.96	0.05	34.87	13.7	0
2000	8	20	178.39	8.11	185.13	8.02	179.48	12.34	10.39	9.41	5.08	-1.08	-0.93	-0.15	34.93	14.35	0
2000	8	21	180.85	6.87	185.99	7.77	182.54	13.29	9.18	7.89	4	-1.18	-0.96	-0.22	34.71	14.6	0
2000	8	22	188.98	4.59	189.02	6.04	206.58	29.5	8.58	6.17	2.69	-0.63	-0.56	-0.07	33.97	15.8	0
2000	8	23	181.54	3.79	192.61	4.18	198.37	16.65	11.36	9.17	2.79	0.79	-0.42	1.21	32.75	15.26	0
2000	9	0	183.39	4.93	192.33	7.8	190.06	21.06	12.67	9.86	3.46	0.39	-0.39	0.79	32.86	14.8	0

2000	9	1	181.8	7.32	189.78	9.17	193.76	24.38	9.77	7.64	3.24	-0.78	-0.79	0.01	34.17	15.56	0
2000	9	2	180.48	4.17	187	4.52	186.69	12.9	11.24	8.69	3.01	-0.44	-0.62	0.18	34.18	15.98	0
2000	9	3	175.26	6.43	185.05	6.46	184.47	15.61	9.99	8.37	3.83	-1.03	-0.88	-0.16	35.31	16.52	0
2000	9	4	173.29	7.46	188.78	11.24	206.92	26.26	7.19	5.16	1.76	-0.97	-0.76	-0.21	35.34	17.23	0
2000	9	5	172.48	9.82	203.11	24.8	305.85	45.49	6.07	4.04	1.66	-0.51	-0.66	0.15	35.03	18.06	0
2000	9	6	165.27	8.53	201.02	18.97	287.55	58.64	5.19	3.4	1.23	0.04	-0.44	0.48	34.71	18.49	0
2000	9	7	170.78	4.96	226.44	23.23	352.32	28.83	5.6	2.59	1.57	-0.28	-0.37	0.09	35.2	18.8	0
2000	9	8	155.81	10.73	243.89	50.93	26.88	50.11	3.6	2.04	1.98	-0.32	-0.52	0.2	35.34	19.2	0
2000	9	9	172.61	44.25	243.29	55.65	337.04	53.77	2.64	2.12	1.88	-1.48	-0.71	-0.77	36.83	20.9	0
2000	9	10	160.33	12.26	175.32	18.85	181.52	20.14	4.69	4.72	4.27	-2.19	-1.01	-1.17	39.63	21.79	0
2000	9	11	156.54	23.08	175.18	28.2	192.08	30.45	3.72	3.98	3.67	-2.11	-0.99	-1.12	42	23.79	0
2000	9	12	148.51	17.23	198.62	36.28	275.16	31.32	4	2.81	2.61	-0.4	0.03	-0.43	44.6	26.42	0
2000	9	13	145.46	42.43	266.31	35.19	289.6	47.04	2.69	3.08	3.24	-0.79	-0.06	-0.73	46.95	27.66	0
2000	9	14	149.54	8.97	172.93	10.8	185.84	22.08	6.35	6	3.97	-0.82	-0.05	-0.77	48.66	27.79	0
2000	9	15	129.94	23.18	148.35	28.21	159.32	32.68	6.25	5.04	3.08	-1.99	-0.97	-1.02	49.65	28.19	0
2000	9	16	159.95	4.16	158.3	5.99	154.77	14.48	11.05	8.81	3.62	-0.03	-0.05	0.02	47.31	27.35	0
2000	9	17	171.38	4.57	165.37	4.24	159.48	12.62	10.12	6.98	2.97	0.01	-0.24	0.25	46.57	28.16	0
2000	9	18	162.03	5.97	148.23	9.11	288.54	31.71	6.26	4.41	1.81	0.16	-0.18	0.33	45.57	29.05	0
2000	9	19	146.89	5.25	179.22	27.34	283.56	39.18	6.29	2.92	1.79	0.57	-0.3	0.87	44.08	29.79	0
2000	9	20	220.34	11.61	229.99	23.51	82.5	63.56	7.02	4.32	1.99	0.64	-0.29	0.92	42.96	30.51	0
2000	9	21	190.39	32.11	269.24	33.56	12.8	48.07	2.39	1.88	1.63	-0.14	-0.7	0.57	42.15	30.59	0
2000	9	22	15.04	8.51	22.76	10.14	24.63	14.76	5.17	5.27	3.62	-0.07	-0.42	0.35	41.03	31.31	0.03
2000	9	23	138.26	22.78	157.96	30.3	179.08	32.53	3.91	2.79	1.87	-0.19	-0.31	0.12	40.54	30.72	0
2000	10	0	203.95	56.56	17.62	44.74	82.09	24.45	1.82	1.8	1.8	0	0.08	-0.08	40.48	30.86	0
2000	10	1	147.4	11.14	40.07	37.53	14.5	26.62	2.23	1.81	1.72	0.11	-0.22	0.32	40.15	30.82	0
2000	10	2	53.31	21.04	31.06	45.47	37.73	13.72	1.39	1.95	1.93	-0.17	-0.27	0.1	40.26	30.76	0
2000	10	3	99.48	27.33	53.13	18.66	11.75	22.36	2.07	2.63	2.44	0.28	-0.43	0.71	40.03	30.71	0
2000	10	4	105.34	14.87	76.85	21.55	19.96	17.25	4.54	2.92	2.31	-0.1	-0.67	0.57	40.26	30.64	0
2000	10	5	105.65	14.55	90.72	30.55	3.31	27.6	5.43	2.77	1.85	-0.78	-0.74	-0.03	40.88	30.35	0
2000	10	6	87.87	13.05	74.16	17.5	18.91	32.75	7.52	5.05	2.77	-0.99	-0.67	-0.32	41.41	30.75	0
2000	10	7	102.83	11.67	112.28	15.34	112.58	60.83	7.75	5.11	1.76	-1.19	-0.78	-0.41	41.62	30.74	0
2000	10	8	100.31	12.98	108.24	16.78	97.61	49.17	7.89	5.12	2.17	-1.45	-0.81	-0.64	42.07	31.03	0
2000	10	9	101.27	14.35	117.95	20.62	111.71	62.99	8.32	5.5	2.31	-1.54	-0.85	-0.69	42.54	31.04	0
2000	10	10	117.75	11.72	126.68	15.46	129.21	34.59	9.15	6.64	2.89	-1.43	-0.86	-0.57	43.19	31.24	0
2000	10	11	108.93	16.6	115.55	29.01	109.58	59.23	10.52	6.73	2.63	-1.46	-0.75	-0.7	43.55	32.73	0
2000	10	12	97.8	12.43	107.25	17.41	103.71	39.3	13.59	9.69	3.93	-1.27	-0.61	-0.65	43.82	33.86	0
2000	10	13	94.48	16.8	100.06	26.76	96.39	69.26	10.2	6.32	2.78	-1.17	-0.54	-0.63	44.35	34.8	0.16
2000	10	14	96.04	12.57	104.2	16.91	97.4	43.01	17.66	13.48	6.11	-1.26	-0.65	-0.61	44.98	35.02	0.26
2000	10	15	94.14	19.69	102.34	25.07	92.69	58.36	13.23	10.04	4.33	-1.18	-0.66	-0.52	45.85	36.25	0.33
2000	10	16	137.85	45.86	281.34	63.32	327.62	53.01	6.01	4.25	3.43	-0.27	-0.05	-0.22	46.75	37.7	0.1
2000	10	17	193.54	30.6	250.83	56.65	269.86	48.17	15.11	11.32	5.38	1.07	0.34	0.73	49.26	40.02	0.03
2000	10	18	269.77	15.57	279.68	18.44	279.86	35.9	19.47	16.39	7.58	-1.25	-0.95	-0.31	51.45	37.52	0
2000	10	19	241.37	14.27	244.67	16.54	231.21	42.16	12.6	9.94	4.47	-1.02	-0.84	-0.18	49.55	34.63	0
2000	10	20	230.54	9.99	232.93	11.5	216.45	32.55	18.5	14.73	5.64	-0.62	-0.73	0.11	49.59	34.81	0
2000	10	21	233.26	9.66	239.18	11.33	231.09	29.64	21.53	18.12	7.58	-0.92	-0.82	-0.1	49.68	34.27	0
2000	10	22	245.47	9.69	254.35	11.65	259.17	25.24	27.81	24.09	11.13	-1.27	-0.94	-0.33	49.66	31.31	0
2000	10	23	246.54	11.24	252.12	12.3	255.66	28.51	22.45	18.95	8.34	-1.15	-0.89	-0.26	49.07	29.06	0
2000	11	0	232.2	10.32	235.81	11.64	224.33	27.23	18.78	15.45	6.94	-0.93	-0.84	-0.1	48.17	28.83	0
2000	11	1	212.37	5.61	214.83	7.1	193.53	17.79	22.79	18.81	9.4	-0.53	-0.57	0.04	47.07	28.84	0

2000	11	2	200.59	7.16	204.77	9.11	186.42	14.03	19.18	15.29	8.81	-0.87	-0.72	-0.16	45.33	29.04	0
2000	11	3	201.71	5.01	202.44	6.94	180.71	12.82	18.84	14.78	8.29	-0.58	-0.58	0	43.61	29	0
2000	11	4	194.41	6.48	190.33	8.44	169.37	12.79	15.22	12.55	6.21	-0.42	-0.64	0.22	42.73	27.94	0
2000	11	5	189.9	5.79	187.83	6.41	170.55	9.45	15.49	12.99	6.36	-0.25	-0.63	0.38	42.1	27.04	0
2000	11	6	182.22	4.93	185.67	4.98	172.3	9.71	13.23	10.74	4.64	-0.25	-0.82	0.58	41.68	25.69	0
2000	11	7	192.89	4.64	195.27	5.88	167.8	8.74	13	9.25	3.37	0.22	-0.45	0.68	40.91	25.27	0
2000	11	8	175.4	4.88	191.72	11.87	185.9	20.69	10	6.47	2.49	0.06	-0.01	0.07	42.13	26.02	0
2000	11	9	179.78	10.2	177.2	13	179.47	22.78	8.08	4.85	2.49	-1.09	-0.45	-0.64	44.36	26.76	0
2000	11	10	199.12	11.52	207.92	13.05	197.01	22.91	18.03	15.01	8.52	-1.96	-0.93	-1.04	48.77	27.48	0
2000	11	11	218.58	9.01	225.12	11.47	216.94	25.34	26.73	23.29	11.47	-1.95	-0.92	-1.03	51.2	27.89	0
2000	11	12	233.21	10.93	242.51	13.64	244.96	32.99	28.28	25.18	10.75	-1.86	-0.99	-0.87	48.7	26.91	0
2000	11	13	244.62	11.48	251.99	14.18	257.41	31.12	21.82	19.21	8.51	-1.85	-0.99	-0.86	48.34	25.46	0
2000	11	14	257.26	10.69	268.05	12.55	270.9	26	22.63	19.85	9.34	-1.94	-1.01	-0.92	48.81	23.72	0
2000	11	15	283.1	11.94	295.37	15.28	294.74	28.14	18.36	16.53	7.28	-1.91	-1.08	-0.83	49.18	22.03	0
2000	11	16	262.91	10.83	271.65	12.95	272.71	22.24	15.02	12.54	5.86	-1.32	-0.94	-0.37	48.11	19.01	0
2000	11	17	253.04	9.99	261.68	12.13	270.23	21.9	15.32	12.84	5.84	-1.16	-0.9	-0.26	47.82	18.39	0
2000	11	18	290.82	11.05	303.65	12.17	306.34	22.59	24.7	22.2	9.93	-1.65	-1.06	-0.59	46.41	21.17	0
2000	11	19	279.79	11.01	290.9	12.46	292.17	24.91	25.09	22.55	10.52	-1.65	-1.04	-0.61	42.8	21.65	0
2000	11	20	272.29	12.34	283.24	14.73	284.84	27.87	19.98	17.3	7.8	-1.51	-1.02	-0.49	42.34	19.78	0
2000	11	21	269.54	13.9	280.19	18.1	279.22	31.77	18.91	16.37	7.77	-1.6	-1.04	-0.56	41.49	20.08	0
2000	11	22	243.91	14.8	250.88	18.98	237.84	40.4	11.56	9.41	4.41	-1.43	-0.97	-0.46	40.42	20.49	0
2000	11	23	257.69	18.71	261.74	20.51	260.33	39.93	10.94	9.27	4.8	-1.5	-0.98	-0.53	41.41	19.94	0
2000	12	0	273.96	14.54	283.19	17.71	281.87	28.5	17.8	15.38	7.26	-1.67	-1.02	-0.65	42.3	20.26	0
2000	12	1	287.99	14.43	299.13	16.64	297.3	30.16	21.71	18.92	8.66	-1.8	-1.1	-0.7	41.77	20.12	0
2000	12	2	295.02	12.99	306.44	15.53	303.5	28.47	25.59	22.56	10.51	-1.91	-1.1	-0.81	42.14	19.45	0
2000	12	3	290.12	10.43	301.57	12.7	300.71	26.39	25.77	23.05	10.04	-1.92	-1.11	-0.81	41.78	19.62	0
2000	12	4	295.49	12.37	306.61	14.66	305.47	28.23	23.83	21.09	9.2	-1.98	-1.11	-0.86	41.09	19.09	0
2000	12	5	296.21	12.08	307.75	13.2	307.93	25.32	30.26	27.48	12.83	-1.96	-1.09	-0.86	40.62	19	0
2000	12	6	297.66	11.14	309.73	13.89	311.46	25.54	25.08	22.75	9.97	-1.89	-1.1	-0.78	40.28	18.73	0
2000	12	7	293.32	12.33	306.02	14.05	306.51	29.5	17.48	15.13	6.38	-1.78	-1.14	-0.64	39.46	18.26	0
2000	12	8	299.63	14.94	311.09	19.58	316.45	33.62	15.19	13.73	6.43	-2.01	-1.1	-0.91	39.28	19.29	0
2000	12	9	300.43	14.1	314.06	16.48	312.51	33.21	21.98	19.88	8.47	-2.28	-1.11	-1.17	40.55	18.92	0
2000	12	10	298.11	11.25	309.53	12.4	309.48	26.41	29.13	26.39	11.67	-2.55	-1.14	-1.41	41.44	17.67	0
2000	12	11	297.33	13.81	308.62	15.28	309.01	27	27.77	25.63	11.33	-2.66	-1.13	-1.53	41.96	16.77	0
2000	12	12	303	15.07	313.62	15.65	312.12	27.05	20.82	19.5	9.04	-2.79	-1.17	-1.62	42.65	16.33	0
2000	12	13	297.77	11.89	309.54	15.78	309.02	27.6	22.24	20.36	8.84	-2.78	-1.16	-1.63	43.25	15.03	0
2000	12	14	305.81	12.86	319.35	14.8	319.58	31.12	18.43	17.13	7.13	-2.63	-1.1	-1.53	43.86	14.57	0
2000	12	15	298.95	16.47	308.54	18.19	313.12	32.95	12.52	10.96	5.54	-2.38	-1.17	-1.21	44.11	14.53	0
2000	12	16	307.36	11.39	320.68	13.58	323.72	25.11	11.46	10.87	4.89	-1.81	-1.08	-0.73	43.42	14.19	0
2000	12	17	305.96	14.64	324.66	15.21	329.29	30.65	9.74	8.89	3.75	-1.4	-1.01	-0.39	42.14	13.79	0
2000	12	18	319.3	13.49	333.48	14.45	341.59	27.8	8.59	8.21	4.11	-1.07	-0.96	-0.12	40.62	14.68	0
2000	12	19	335.84	12.85	351.69	11.36	356.69	20.04	9.84	9.74	4.84	-1.37	-0.94	-0.43	39.35	14.96	0
2000	12	20	324.47	9.61	341.1	9.54	335.56	22.61	9.33	8.95	3.62	-1.34	-0.92	-0.41	37.89	15.26	0
2000	12	21	299.85	16.8	310.93	18.75	313.75	42.84	7.27	6.19	2.13	-1.01	-0.95	-0.06	37.06	14.91	0
2000	12	22	299.04	12.22	298.74	17.21	278.45	60.11	7.25	5.96	2.17	-0.94	-0.89	-0.05	36.56	15.11	0
2000	12	23	292.18	14.42	296.96	14.59	281.83	40.25	7.33	6.17	2.44	-1.31	-0.93	-0.38	36.56	14.89	0
2000	13	0	279.95	11.44	275.48	14.96	239.71	30.65	7.88	5.82	2.84	-1.42	-0.86	-0.56	36.26	14.61	0
2000	13	1	313.89	17.2	323.7	17.99	324.36	27.25	8.14	7.56	4.26	-1.72	-1.01	-0.71	36.33	15.13	0
2000	13	2	348.17	15.94	8.45	19.07	14.08	30.79	8.59	7.75	3.64	-1.82	-1	-0.82	35.93	15.68	0

2000	13	3	21.07	11.94	39.03	11.43	32.74	19.09	7.91	7.55	4.63	-1.75	-0.92	-0.83	35.42	16.02	0
2000	13	4	31.85	17.63	46.9	30.53	40.78	47.03	7.21	5.9	3.6	-1.9	-1.02	-0.88	34.9	15.73	0
2000	13	5	48.12	11.77	59.13	22.52	87.45	54.29	5.35	4.19	2.43	-1.73	-0.95	-0.77	34.44	16.06	0
2000	13	6	55.95	14.1	66.62	15.76	60.38	27.47	7.47	6.52	3.75	-1.93	-1.02	-0.91	34.14	15.26	0
2000	13	7	36.17	9.61	42.63	10.93	30.92	16.85	10.08	9.16	6.35	-2.08	-1.06	-1.02	32.9	15.55	0
2000	13	8	42.93	9.14	46.23	11.01	34.35	16.63	9.41	7.57	4.85	-1.84	-0.85	-0.99	30.09	18.58	0
2000	13	9	40.26	12.46	43.33	11.73	30.7	18.39	8.49	6.95	4.73	-1.54	-0.75	-0.79	29.63	18.94	0
2000	13	10	13.68	12.46	19.29	17.6	18.61	22.73	8.55	7.61	5.1	-1.76	-0.83	-0.93	30.19	19.1	0
2000	13	11	4.95	9.88	12.15	14.04	13.25	19.57	9.5	8.41	5.48	-1.84	-0.9	-0.94	30.55	19.24	0
2000	13	12	353.12	12.18	357.9	11.45	4.52	20.66	13.06	12.64	6.06	-2.12	-1.05	-1.08	30.67	19.45	0
2000	13	13	350.12	10.04	357.19	11.68	2.46	25	21.42	19.64	8.85	-2.1	-0.89	-1.21	29.23	18.8	0.01
2000	13	14	352.5	11.39	0.51	13.79	6.45	19.82	25.96	23.7	11.45	-1.49	-0.3	-1.19	26.2	16.33	0.01
2000	13	15	356.31	14.34	3.97	15.38	9.07	19.26	28.72	24.98	13.9	-1.86	-0.73	-1.13	24.46	13.1	0
2000	13	16	351.69	9.01	358.59	12.89	5.11	18.27	23.21	20.97	10.6	-2	-0.87	-1.13	23.99	12.06	0
2000	13	17	338.44	10.14	349.73	11.79	346.43	20.1	16.26	15.22	7.36	-1.98	-0.97	-1.01	24.37	11.28	0
2000	13	18	326.5	13.37	341.15	15.28	340.43	23.22	15.8	14.65	7.14	-1.75	-1.02	-0.73	24.51	9.83	0
2000	13	19	311.7	15.91	325.4	16.82	327.12	28.37	17.95	16.57	7.84	-1.94	-1.15	-0.79	24.34	4.94	0
2000	13	20	302.89	16.63	312.24	20.73	315.06	30.72	20.69	18.48	8.68	-2.05	-1.15	-0.89	21.26	-0.02	0
2000	13	21	307.61	10.45	319.58	12.77	322.06	26.68	30.11	27.33	11.54	-2.17	-1.17	-1	18.24	-2.01	0
2000	13	22	312.35	9.33	323.78	9.93	322.54	24.52	31.92	30.04	11.96	-2.21	-1.15	-1.05	17.08	-2.31	0
2000	13	23	315.39	8.54	328.49	9.64	326.01	23.36	32.77	30.91	12.17	-2.16	-1.12	-1.04	17.08	-2.23	0
2000	14	0	315.48	10.89	327.24	11.21	325.69	19.95	25.14	24.22	10.51	-2.21	-1.14	-1.07	17.26	-2.21	0
2000	14	1	317.02	9.52	328.61	10.74	325.83	23.31	25.23	24.32	10.29	-2.12	-1.12	-1	16.63	-3.64	0
2000	14	2	314.29	8.99	326.71	10.58	324.48	22.49	26.58	24.97	10.37	-2.15	-1.13	-1.02	15.47	-4.73	0
2000	14	3	313.51	9.72	325.6	11.21	322.03	22.96	26.66	25.06	10.91	-2.15	-1.13	-1.02	14.63	-5.75	0
2000	14	4	322.72	11.09	336.69	13.24	333.43	23.47	24.08	23.22	10.75	-2.03	-1.11	-0.92	13.7	-7.32	0
2000	14	5	322.63	13.35	334.99	15.36	330.38	24.57	22.99	21.25	10.09	-2.06	-1.14	-0.92	12.84	-8.95	0
2000	14	6	323.91	14.84	335.92	15.25	334.5	22.46	21.64	20.07	9.51	-2	-1.14	-0.87	12.13	-10	0
2000	14	7	329.58	14.32	342.67	17.71	339.08	24.5	21.79	20.06	9.94	-2	-1.1	-0.9	11.77	-9.95	0
2000	14	8	330.8	12.98	343.94	15.65	339.49	24.61	24.82	22.83	10.83	-2.23	-1.14	-1.09	12.3	-8.8	0
2000	14	9	336.74	13.4	349.38	15.74	345.49	24.03	25.96	23.88	12.07	-2.46	-1.18	-1.28	13.13	-8.2	0
2000	14	10	333.84	13.27	346.88	15.45	344.98	24.69	25.73	24.22	12.19	-2.66	-1.18	-1.48	14.64	-7.38	0
2000	14	11	316.29	15.64	329.33	16.34	324.7	27.01	25.31	23.22	10.97	-2.88	-1.27	-1.61	16.59	-5.97	0
2000	14	12	299.65	16.55	309.17	19.46	313.61	29.71	22.73	19.48	9.05	-3	-1.29	-1.71	18.05	-4.31	0
2000	14	13	301.35	12.5	313.73	14.95	314.98	29.94	34.32	31.23	13.92	-2.74	-1.21	-1.53	18.64	-4.54	0
2000	14	14	301.91	14.12	311.49	16.34	312.71	30.27	30.88	27.97	12.32	-2.65	-1.21	-1.43	19.37	-3.63	0
2000	14	15	302.92	14.91	312.1	18.03	312.19	29.66	23.92	21.83	10.27	-2.47	-1.22	-1.25	19.5	-3.05	0
2000	14	16	308.64	22.38	316.2	22.54	322.71	37.17	18.93	16.9	8.44	-2.11	-1.15	-0.96	18.7	-4.01	0
2000	14	17	314.71	15.34	326.38	16.98	324.74	27.93	20.18	18.95	9.01	-1.97	-1.1	-0.87	17.69	-4.72	0
2000	14	18	317.76	20.67	328.21	21.92	330.76	34.69	16.63	15.06	7.4	-1.9	-1.09	-0.82	16.94	-4.83	0
2000	14	19	307.08	17.55	318.11	19.33	324.92	32.81	16.51	14.34	7.08	-1.91	-1.14	-0.77	16.49	-4.33	0
2000	14	20	323.51	22.72	335.06	22.93	334.41	39.54	14.34	12.84	6.97	-1.87	-1.09	-0.78	16.2	-4.31	0
2000	14	21	312.3	29.93	320.32	36.06	320.65	52.45	11.89	9.57	5.78	-1.83	-1.1	-0.72	16.19	-4.05	0
2000	14	22	307.8	28.28	318.46	30.54	323.46	49.2	12.64	10.29	5.5	-1.83	-1.11	-0.72	16.58	-3.51	0
2000	14	23	325.11	20.27	337.99	22.31	338.37	35.03	14.58	12.84	7.02	-1.81	-1.07	-0.75	16.87	-3.4	0
2000	15	0	320.84	15.85	333.97	17.24	336.46	25.24	15.35	14.01	7.45	-1.84	-1.11	-0.72	16.75	-2.64	0
2000	15	1	328.15	12.58	341.49	13.8	339.24	23.23	16.71	15.48	8.13	-1.84	-1.06	-0.77	17.11	-2.4	0
2000	15	2	326.24	10.11	340.19	12.36	333.84	23.75	21.08	20.43	9.41	-2.03	-1.12	-0.91	17.5	-2.24	0
2000	15	3	315.68	11.02	327.25	11.99	324.85	22.52	20.63	19.21	8.49	-1.97	-1.12	-0.86	16.98	-3.22	0

2000	15	4	315.58	9.33	327.64	11.01	321.7	23.47	20.92	19.52	8.34	-1.98	-1.11	-0.87	16.62	-3.72	0
2000	15	5	327.1	17.54	340.4	18.11	343.25	32.34	15.17	13.72	6.75	-1.82	-1.07	-0.75	16.18	-5.19	0
2000	15	6	28.51	11.59	48.67	9.69	49.09	16.36	9.25	9.22	5.23	-1.4	-0.64	-0.76	13.2	-6.33	0
2000	15	7	27.4	6.03	47.17	6.81	42.92	14.85	9.66	8.41	4.67	-1.2	-0.46	-0.73	9.75	-8.74	0
2000	15	8	21.91	10.02	35.15	10.54	36.24	14.8	8.48	8.06	5.82	-1.9	-0.99	-0.91	9.96	-8.35	0
2000	15	9	27.94	10.13	42.02	10.59	35.53	13.04	5.73	5.67	5.26	-2	-1.02	-0.98	11.18	-7.46	0
2000	15	10	78.21	45.39	69.7	59.02	34.06	44.87	3.28	3.27	2.72	-1.98	-1.05	-0.92	13.85	-5.99	0
2000	15	11	181.05	44.23	191.73	50.75	201.94	61.84	4	3.96	3.34	-2.26	-1.09	-1.17	16.39	-3.25	0
2000	15	12	172.21	25.67	190.98	29.96	201.23	39.47	4.99	4.92	3.98	-2.4	-1.15	-1.25	18.29	-1.86	0
2000	15	13	161.34	24.61	179.72	24.38	188.35	35.07	4.87	5.11	4.37	-2.46	-1.19	-1.27	20.31	-0.84	0
2000	15	14	170.89	37.2	186.11	47.39	177.72	54.36	3.36	3.31	2.86	-2.19	-1.04	-1.15	21.63	-0.17	0
2000	15	15	181.96	19.4	205.96	23.88	204.33	31.02	4.08	4.23	3.54	-2.21	-1.01	-1.2	22.5	0.82	0
2000	15	16	139.54	13.46	165.49	18.5	183.09	30.26	3.54	2.61	1.92	-1.88	-0.97	-0.91	22.4	0.51	0
2000	15	17	151.65	12.11	144.27	11.45	128.78	25.44	3.07	2.94	1.26	-1.26	-0.88	-0.38	22.21	-1.16	0
2000	15	18	155.61	17.38	152.24	12.16	139.64	27.1	3.6	4.05	1.8	-0.5	-0.69	0.2	21.71	-1.46	0
2000	15	19	154.46	8.8	166.88	9.65	122.03	17.15	3.76	2.62	1.94	-0.46	-0.7	0.24	21.58	-0.79	0
2000	15	20	161.88	15.46	186.36	24.76	119.39	18.31	3.62	2.28	1.99	-0.6	-0.68	0.08	21.83	0.14	0
2000	15	21	172.15	14.88	223.27	25.26	191.69	38.31	4.01	2.77	1.85	-0.77	-0.67	-0.1	22.35	3.55	0
2000	15	22	166.31	10.92	193.06	17.73	192.03	25.39	7.97	5.67	2.17	-0.47	-0.38	-0.09	23.35	5.56	0
2000	15	23	161.07	9.92	169.56	11.29	161.42	19.4	8.63	6.9	3.13	-0.76	-0.63	-0.13	24.79	8.32	0
2000	16	0	168.79	6.97	181.96	10.35	169.27	17.58	9.74	7.41	3.12	-0.79	-0.52	-0.27	25.45	9.44	0
2000	16	1	165.61	7.14	175.83	10.06	169.85	16.37	10.71	8.51	4.41	-1.17	-0.78	-0.38	27.02	10.73	0
2000	16	2	175.34	4.67	190.75	6.81	190.43	13.1	14.27	11.85	6.43	-1.17	-0.73	-0.44	28.07	10.13	0
2000	16	3	170.73	2.7	182.41	4.93	179.77	11.59	15.4	12.57	6.51	-0.74	-0.52	-0.22	28.65	11.47	0
2000	16	4	170.97	4.47	183.92	6.06	183.73	11.92	16.71	13.71	7.66	-1.02	-0.59	-0.43	30.14	13.75	0
2000	16	5	180.83	6.39	194.32	9.22	187.89	14.27	16.76	13.36	7.66	-1.19	-0.64	-0.56	31.36	14.34	0
2000	16	6	184.54	7.16	206.68	9.87	199.39	17.88	16.37	11.78	5.34	-0.22	-0.13	-0.09	31.8	15.48	0
2000	16	7	180.46	5.57	195.36	7.13	194.54	14.65	18.2	14.51	7.29	-0.37	-0.43	0.06	33.08	16.16	0
2000	16	8	180.59	6.29	188.57	7.56	183.05	13.17	19.81	16.86	10.29	-1.57	-0.9	-0.67	34.54	16.43	0
2000	16	9	182.05	7.04	190.5	8.64	185.47	12.95	17.45	14.65	9.24	-1.69	-0.94	-0.75	34.92	15.85	0
2000	16	10	189.24	9.03	198.62	9.98	190.83	14.09	14.58	12.37	7.97	-1.94	-1	-0.93	35.26	16.13	0
2000	16	11	177.5	7.71	179.96	8.36	171.37	12.53	15.36	12.84	8.43	-2.62	-1.06	-1.56	37.8	17.95	0
2000	16	12	201.17	12.62	196.58	14.84	178.6	21.16	12.34	10.99	6.66	-1.82	-0.76	-1.05	40.21	18.61	0
2000	16	13	236.36	11.6	244.81	13.02	247.26	30.99	14.61	12.52	5.83	-1.91	-1.02	-0.9	42.19	18.87	0
2000	16	14	276.45	13.96	288.94	15.44	288.73	29.71	19.31	16.9	8.02	-2.04	-1.1	-0.94	42.16	20.37	0
2000	16	15	284.63	11.75	297.22	13.36	296.04	23.98	23.62	20.96	9.82	-1.96	-1.1	-0.86	41.96	21.27	0
2000	16	16	299.87	10.48	311.86	12.03	311.68	24.77	35.68	33.29	14.41	-1.86	-1.08	-0.78	39.69	19	0
2000	16	17	294.97	9.8	307.04	11.96	309.5	24.19	34.69	31.53	13.67	-1.82	-1.09	-0.73	37.51	15.23	0
2000	16	18	300.86	9.99	313.32	12.67	314.13	24.53	36	33.24	14.5	-1.86	-1.09	-0.77	35.18	13.21	0
2000	16	19	302.11	11.67	312.28	13.37	310.88	26.77	31.69	29.21	12.61	-2.05	-1.12	-0.92	32.57	9.89	0
2000	16	20	297.47	14.47	308.67	16.47	305.86	29.31	29.03	25.25	11.76	-2.08	-1.14	-0.94	28.79	6.14	0
2000	16	21	313.48	15.53	325.97	17.13	325.23	27.54	29.52	26.61	12.62	-2.06	-1.12	-0.94	26.25	4.45	0
2000	16	22	319.45	12.49	334.24	13.32	335.6	25.31	36.1	34.07	16.21	-2.02	-1.08	-0.94	23.01	-1.27	0
2000	16	23	315.18	11.02	327.69	13.44	326.68	24.56	35.12	32.11	14.44	-2.13	-1.13	-1	20.45	-3.04	0
2000	17	0	312.75	12.17	327.57	14.28	326.58	26.4	35.06	32.17	14.78	-2.12	-1.13	-0.99	18.26	-6.02	0
2000	17	1	315.69	15.05	329.64	16.71	329.19	27.56	32.94	30.42	14.16	-2.1	-1.13	-0.97	16.08	-8.34	0
2000	17	2	320.95	13.97	333.95	16.69	332.33	26.44	30.85	28.32	13.22	-2.08	-1.11	-0.97	13.7	-10.14	0
2000	17	3	321.33	14.93	335.55	16.15	332.7	26.21	29.47	27.87	13.74	-2.09	-1.11	-0.98	11.77	-12.74	0
2000	17	4	317.76	12.09	329.77	13.49	328.94	23.96	28.88	26.95	12.44	-2.11	-1.12	-0.99	10.56	-13.28	0

2000	17	5	320.43	12.63	333.48	12.35	330.11	21.64	27.45	25.95	12.44	-2.15	-1.11	-1.04	8.76	-13.82	0
2000	17	6	315.1	8.62	326.62	10.3	323.1	21.13	34.16	32.03	13.48	-2.36	-1.13	-1.23	6.67	-14.09	0
2000	17	7	310.1	7.91	324.14	9.35	321.02	19.14	34.65	33.31	13.78	-2.55	-1.18	-1.37	5.38	-14.55	0
2000	17	8	312.72	8.05	326.12	9.67	325.74	21.47	35.42	34.4	13.56	-2.79	-1.22	-1.57	5.04	-14.76	0
2000	17	9	317.59	17.18	331.1	19.09	334.84	33.64	22.23	20.65	9.75	-2.72	-1.22	-1.5	5.73	-15.01	0
2000	17	10	337.86	18.21	348.32	21.24	347.37	30.46	21.05	19.35	10.12	-2.87	-1.22	-1.65	7.28	-13.31	0
2000	17	11	346.05	14.36	357.2	13.85	359.24	24.31	26.32	24.4	13.06	-3.01	-1.26	-1.75	8.75	-11.29	0
2000	17	12	342.99	12.93	355.3	16.81	357.84	22.27	33.31	31.09	15.23	-3.05	-1.25	-1.8	11.62	-11.53	0
2000	17	13	341.48	10.55	353.71	14.6	353.52	22.33	30.33	28.48	13.64	-3.06	-1.23	-1.83	13.15	-10.3	0
2000	17	14	351.51	13.92	2.83	14.43	7.68	18.2	25.95	23.31	12.84	-3.02	-1.29	-1.73	12.68	-8.84	0
2000	17	15	352.46	14.23	2.06	12.95	7.82	19.47	24.38	22.11	12	-2.94	-1.35	-1.6	12.02	-8.5	0
2000	17	16	348.52	11.7	0.49	11.87	1.09	20.64	21.34	20.64	11.41	-2.36	-1.16	-1.2	11.74	-9.41	0
2000	17	17	344.1	12.31	355.6	13.28	350.89	22.43	22.63	21.74	11.31	-2.11	-1.1	-1.01	11.66	-9.7	0
2000	17	18	344.2	12.32	355.61	16.21	356.03	23.64	21.96	20.2	9.92	-2.16	-1.15	-1.01	11.01	-10.11	0
2000	17	19	321.33	15.87	332.97	17.89	335.41	28.1	18.06	16	7.6	-2.08	-1.13	-0.95	9.65	-12.97	0
2000	17	20	321.17	12.11	334.56	13.75	335.67	28.4	17.91	16.59	7.25	-2.12	-1.13	-0.99	8.11	-13.88	0
2000	17	21	328.03	12.18	341.2	12.9	341.74	22.35	15.63	15.18	7.21	-2.07	-1.1	-0.97	7.06	-14.19	0
2000	17	22	337.16	8.26	347.44	10.2	343.16	24.31	20.86	19.93	8.79	-2.33	-1.16	-1.17	6.52	-13.34	0
2000	17	23	336.96	9.69	346.22	12.63	342	25.09	18.3	17.19	7.73	-2.3	-1.17	-1.13	5.3	-13.18	0
2000	18	0	351.04	11.51	0.35	14.09	2.04	21.34	15.93	14.32	7.6	-2.27	-1.18	-1.09	3.97	-13	0
2000	18	1	355.53	12.29	6.03	14.55	6.19	17.76	15.59	13.95	8.45	-2.16	-1.16	-1	2.76	-14.81	0
2000	18	2	356.69	12.37	6.46	14.91	10.67	21.61	16.09	13.59	7.55	-2.21	-1.19	-1.02	2.53	-15.45	0
2000	18	3	357.24	14.47	9.16	15.18	12.37	19.72	16.18	14.26	8.93	-2.24	-1.18	-1.06	1.62	-16.38	0
2000	18	4	357.36	13.12	8.44	12.55	5.15	19.1	16.96	15.09	9.27	-2.25	-1.14	-1.11	1.03	-16.5	0
2000	18	5	346.34	9.24	356.3	12.97	356.62	21.15	20.75	19.65	10.06	-2.38	-1.22	-1.16	1.29	-15.69	0
2000	18	6	347.47	9.69	357.39	11.39	358.4	21.02	18.89	17.86	9.37	-2.21	-1.15	-1.07	0.81	-15.55	0
2000	18	7	345.88	9.64	354.7	12.08	352.17	22.14	18.21	17.44	8.84	-2.34	-1.18	-1.16	0.81	-14.94	0
2000	18	8	347.85	8.48	358.85	13.3	358.62	20.74	25.1	24.89	12.38	-2.63	-1.2	-1.43	1.11	-14.67	0
2000	18	9	353.75	12.43	6.87	11.74	8.2	18.95	18.02	16.61	10.11	-2.91	-1.34	-1.57	2.83	-12.94	0
2000	18	10	357.29	17.1	6.98	12.24	7.56	17.75	16.84	15.65	10.48	-2.89	-1.23	-1.66	4.75	-11.71	0
2000	18	11	358.94	14.81	8.27	11.97	8.42	16.96	15.49	13.93	9.72	-2.91	-1.29	-1.62	7.28	-10.4	0
2000	18	12	1.64	14.36	14.2	13.1	14.58	17.85	14.3	12.67	9.49	-3.02	-1.38	-1.64	10.34	-9.41	0
2000	18	13	357.61	14.45	8.35	10.27	10.54	15.94	16.25	14.51	9.95	-2.91	-1.26	-1.65	12.4	-9.56	0
2000	18	14	358.87	13.67	9.62	14.46	7.81	17.89	11.46	10.5	7.42	-2.65	-1.29	-1.36	13.79	-8.53	0
2000	18	15	358.89	11.84	6.73	11.94	7.5	19.07	12.87	12.16	7.68	-2.51	-1.2	-1.3	13.94	-8.57	0
2000	18	16	355.7	12.07	3.07	12.97	4.55	18.55	11.58	10.61	6.59	-2.25	-1.13	-1.11	13.82	-8.93	0
2000	18	17	351.96	10.15	1.8	11.38	1.36	18.15	12.53	12.13	7.29	-2.19	-1.12	-1.07	13.65	-8.15	0
2000	18	18	355.02	11.95	5.05	12.86	4	18.38	13.17	11.99	7.3	-2.22	-1.15	-1.07	12.91	-7.72	0
2000	18	19	346.68	7.76	356.51	11.57	358.82	21.11	14.38	14.17	7.32	-2.28	-1.12	-1.16	11.68	-8.22	0
2000	18	20	344.57	9.1	351.75	12.47	354.5	20.62	11.65	11.34	5.73	-2.19	-1.11	-1.09	10.75	-9.53	0
2000	18	21	343.19	8.68	352.62	9.76	351.72	20.04	11.73	11.89	6.61	-2.19	-1.1	-1.08	10.23	-10.08	0
2000	18	22	346.52	12.7	353.65	12.23	348.46	21.59	11.55	11.16	5.88	-2.12	-1.1	-1.02	9.73	-10.27	0
2000	18	23	346.46	10.94	356.13	13.41	354.04	21.38	11.5	10.92	5.69	-2.04	-1.07	-0.97	8.93	-9.55	0
2000	19	0	342.16	8.01	351.25	11.54	352.33	21.53	10.86	10.46	5.8	-1.95	-1.08	-0.87	8.43	-10.79	0
2000	19	1	353.84	12.71	6.75	12.17	11.84	18.51	10.79	9.9	5.87	-1.79	-0.96	-0.83	8.01	-10.82	0
2000	19	2	349.89	8.35	359.85	11.35	2.28	20.05	14.68	13.8	7.29	-1.99	-1.07	-0.91	7.89	-9.92	0
2000	19	3	348.27	12.26	358.77	13.85	1.82	26.32	13.96	12.3	5.68	-2.02	-1.1	-0.92	7.8	-10.85	0
2000	19	4	350.02	11.34	0.82	13.8	2.89	27.85	12.07	10.82	5.96	-2.07	-1.12	-0.94	7.44	-10.61	0
2000	19	5	348.51	8	359.18	11.39	354.89	18.55	14.81	14.37	8.17	-2.11	-1.06	-1.06	7.5	-9.91	0

2000	19	6	351.31	10.61	4.65	10.23	2.36	17.16	13.12	12.2	7.75	-2.17	-1.12	-1.05	8	-9.59	0
2000	19	7	351.39	11.05	5.58	10.59	4.09	17.71	15.18	14.35	9.07	-2.17	-1.09	-1.08	8.38	-8.05	0
2000	19	8	349.94	13.62	6.3	10.47	4.63	17.12	14.87	14.69	9.28	-2.13	-1.02	-1.12	9.08	-6.73	0
2000	19	9	2.35	14.36	18.41	15.56	25.25	18.85	10.26	9.4	7.47	-2.27	-1.14	-1.13	10.59	-5.84	0
2000	19	10	359.14	14.4	10.68	12.96	16.08	17.82	9.62	9	6.88	-2.63	-1.27	-1.36	13.65	-4.48	0
2000	19	11	354.64	15.28	10.25	16.02	13.75	20.32	8.52	7.92	6.1	-2.65	-1.21	-1.44	16.87	-4.05	0
2000	19	12	334.03	18.91	355.66	17.57	5.14	22.15	8.97	7.95	5.68	-2.57	-1.15	-1.42	20.57	-3.08	0
2000	19	13	338.03	28.63	5.55	21.98	9.53	22.64	6.76	6.07	4.63	-2.39	-1.13	-1.27	23.78	-1.74	0
2000	19	14	345.61	23.59	1.71	20.5	0.21	25.83	6.35	6.27	4.74	-2.45	-1.13	-1.32	26.14	0.86	0
2000	19	15	299.46	19.05	316.13	22.25	320.38	32.07	10.24	9.42	4.74	-2.42	-1.14	-1.29	28.2	2.86	0
2000	19	16	273.65	11.79	281.92	13.12	276.31	23.87	12.49	11.52	5.85	-2.06	-1.13	-0.93	28.1	2.33	0
2000	19	17	277.29	12.7	285.76	13.47	278.08	24.02	10.76	9.69	5.05	-1.63	-1.08	-0.55	27.17	1.59	0
2000	19	18	294	19.58	305.22	22.78	307.05	43.04	9.52	8.48	4.42	-1.63	-1.06	-0.57	26.46	1.82	0
2000	19	19	299.95	24.87	325.89	33.71	346.16	58.73	7.71	6.33	2.81	-1.14	-0.92	-0.21	25.46	2.13	0
2000	19	20	304.05	19.98	335.12	21.46	354.67	46.62	7.23	5.71	2.9	-0.79	-0.63	-0.16	24.77	2.49	0
2000	19	21	306.79	41.89	48.73	41.32	47.42	28.12	3.02	3.36	2.72	0.83	-0.3	1.13	22.28	1.96	0
2000	19	22	178.87	17.33	235.64	27.94	6.52	36.38	3.57	2.86	2.4	1.8	0.44	1.36	20.66	3.48	0
2000	19	23	285.91	31.97	355.23	28.82	36.45	16.67	3.87	4.09	3.66	2.35	0.74	1.61	19.85	2.85	0
2000	20	0	198.86	41.95	45.31	47.02	33.67	21.89	2.09	2.33	2.54	2.48	0.67	1.81	18.98	2.55	0
2000	20	1	224.67	28.02	48.69	30.25	39.97	22.94	2.88	2.12	2.41	1.33	0.6	0.73	19.21	3.27	0
2000	20	2	328.28	34.99	31.88	10.73	26.41	11.28	1.61	3.54	3.45	1.29	0.41	0.89	19.25	3.1	0
2000	20	3	84.91	16.05	21.45	6.44	21.85	10.47	2.32	4.3	3.78	1.09	0.84	0.25	18.94	2.88	0
2000	20	4	59.82	38.68	20.13	9.54	33.06	11.95	1.71	4.64	3.76	0.45	0.65	-0.2	19.2	2.15	0
2000	20	5	21.68	11.51	23.92	8.43	31.02	12.63	3.52	5.09	3.97	-0.34	-0.07	-0.27	19.57	2.12	0
2000	20	6	36.56	17.27	29.21	10.6	26.38	14.98	3.02	4.26	3.57	-0.75	-0.19	-0.56	19.24	3.87	0
2000	20	7	30.31	23.02	34.56	13.58	29.07	13.01	3.02	4.06	3.76	-1.19	-0.42	-0.77	18.79	6.76	0
2000	20	8	13.59	15.87	16.07	15.06	10.65	17.61	3.43	3.2	2.73	-1.47	-0.68	-0.79	19.35	7.92	0
2000	20	9	23.33	13.96	23.71	10.92	21.59	12.01	5.06	4.98	4.24	-1.54	-0.75	-0.78	20.07	8.87	0.01
2000	20	10	18.96	14.36	20.99	12.3	19.81	15.77	5.69	5.75	4.68	-1.55	-0.7	-0.85	20.87	9.73	0.01
2000	20	11	18.32	8.78	23.14	12.29	25.55	16.39	9.04	8.08	6.24	-1.8	-0.84	-0.96	21.32	10.32	0
2000	20	12	20.22	9.58	30.23	11.26	31.41	14.87	11.31	9.79	7	-1.86	-0.87	-0.99	21.75	10.37	0
2000	20	13	11.81	9.44	19.25	11.45	22.92	16.12	11.37	9.53	7.35	-1.9	-0.98	-0.93	22.67	11.46	0
2000	20	14	11.98	9.59	24.35	9.79	27.1	13.64	11.13	10.07	7.38	-1.79	-0.89	-0.9	23.56	11.73	0
2000	20	15	0.25	13.18	3.95	12.26	8.1	18.54	10	9.25	5.34	-1.7	-0.71	-0.99	23.61	12.1	0
2000	20	16	356.72	12.72	0.67	12.98	6.06	20.26	10.98	10.19	5.38	-1.77	-0.8	-0.97	23.38	11.51	0
2000	20	17	353.33	11.41	357.89	11.1	5.88	20.69	11.27	10.63	5.54	-1.8	-0.84	-0.96	23.38	11.12	0
2000	20	18	350.06	9.31	356.85	9.98	5.32	20.12	14.6	13.41	6.51	-1.81	-0.84	-0.97	22.9	10.93	0
2000	20	19	339.24	6.98	349.46	11.42	353.09	22.79	17.18	15.59	6.94	-1.87	-0.89	-0.98	22.67	10.49	0
2000	20	20	349.72	7.87	0.74	12.01	4.62	16.8	17.22	15.85	8.62	-1.89	-0.99	-0.9	22.77	10.14	0
2000	20	21	342.7	10.79	354.83	12.12	356.2	20.16	13.72	12.85	6.9	-1.81	-0.97	-0.84	22.73	9.84	0
2000	20	22	343.48	9.8	354.4	13.51	5.5	21.45	15.42	14.11	7.1	-1.82	-1.03	-0.8	22.56	9.23	0
2000	20	23	330.85	9.27	340.75	11.11	343.7	25.51	15.73	14.58	6.21	-1.84	-1.03	-0.81	22.49	8.78	0
2000	21	0	325.41	9.38	335.83	10.77	330.86	22.33	18.89	18.05	7.81	-1.87	-0.96	-0.91	22.35	9.42	0
2000	21	1	307.61	12.5	321.23	13.63	322.1	24.78	22.77	20.59	8.73	-1.77	-0.98	-0.79	22.31	8.15	0
2000	21	2	302.56	12.46	316.15	14.61	316.86	24.28	28.43	25.57	11.42	-1.87	-1.11	-0.76	20.57	1.53	0
2000	21	3	300	9.38	312.32	12.94	318.18	26.96	34.84	30.78	12.4	-2.07	-1.21	-0.85	18.82	-0.3	0
2000	21	4	301.13	10.26	314.33	11.94	315.11	25.01	32.81	29.45	13.17	-2.07	-1.13	-0.95	17.69	-2.02	0
2000	21	5	310.59	10.52	322.3	11.86	322.54	24.37	32.31	29.76	12.56	-2.02	-1.14	-0.88	16.78	-2.93	0
2000	21	6	316.94	11.89	329.86	13.16	323.26	24.82	27.79	26.22	11.81	-2.01	-1.13	-0.88	15.69	-3.99	0

2000	21	7	315.1	12.14	329.54	13.33	323.77	22.01	24.94	23.42	10.67	-2	-1.12	-0.89	14.23	-4.43	0
2000	21	8	310.77	10.48	322.63	12.66	318.3	22.83	27.82	26.11	11.21	-2.29	-1.14	-1.15	13.16	-4.67	0
2000	21	9	314.45	15.48	327.55	17.81	321.86	28.93	23.42	21.76	9.56	-2.51	-1.2	-1.31	13.2	-5.92	0
2000	21	10	311.04	21.72	320.68	23.75	325.18	34.95	20.85	18.38	8.67	-2.7	-1.28	-1.43	14.1	-6.78	0
2000	21	11	303.15	10.54	315.88	13.06	314.98	24.68	33.68	31.36	13.88	-2.82	-1.21	-1.61	14.37	-8.04	0
2000	21	12	311.04	11.77	323.12	13.16	318.18	23.43	32.77	30.75	13.6	-2.79	-1.18	-1.61	14.94	-8.61	0
2000	21	13	302.31	11.69	314.14	14.09	311.83	26.16	31.31	29.33	13.32	-2.89	-1.21	-1.67	14.91	-8.44	0
2000	21	14	302.31	13.91	314.7	16.01	312.84	28.12	29.94	27.3	11.91	-2.75	-1.22	-1.53	14.62	-8.35	0
2000	21	15	296.51	11.39	307.81	13.12	307.77	25.72	30.1	27.83	13.08	-2.59	-1.19	-1.4	14.36	-9.19	0
2000	21	16	303.54	10.99	315.75	13.28	314.6	25.66	31.27	28.4	12.34	-2.26	-1.2	-1.06	13.38	-10.98	0
2000	21	17	295.34	11.23	305.47	12.68	307.27	23.64	29.55	26.4	11.92	-2.14	-1.18	-0.96	11.54	-11.14	0
2000	21	18	299.04	12.36	311.7	14.83	311.95	26.67	25.96	23.56	11.24	-2.03	-1.17	-0.86	10.31	-11.23	0
2000	21	19	299.77	14.4	311.15	16.6	316.59	26.62	25.65	22.44	10.42	-2	-1.17	-0.82	9.3	-11.53	0
2000	21	20	302.33	14.63	316.34	16.72	317.9	29.18	23.2	20.73	9.83	-1.94	-1.15	-0.79	8.57	-11.04	0
2000	21	21	300.13	11.07	313.42	14.1	318.94	23.37	25.31	22.79	10.43	-2.04	-1.18	-0.85	8.33	-10.48	0
2000	21	22	301.11	11.39	313.72	13.04	314.93	23	21.44	19.66	9.72	-2.21	-1.21	-1	8.11	-9.84	0
2000	21	23	297.9	12.81	313.3	14.2	314.95	24.78	18.29	16.85	8.08	-2.05	-1.15	-0.9	7.8	-10.41	0
2000	22	0	298.15	15.08	311.17	17.98	316.08	32.21	16.02	13.45	6.29	-1.82	-1.15	-0.66	7.55	-10.85	0
2000	22	1	297.51	18.41	308.54	21.38	312.87	36.37	15.07	12.82	6.16	-1.75	-1.13	-0.61	7.83	-10.93	0
2000	22	2	293.73	22.72	303.54	24.94	303.26	46.37	13.93	11.64	5.97	-1.74	-1.11	-0.64	7.9	-11.16	0
2000	22	3	278.19	17.29	288.25	18.16	281.07	36.97	13.14	11.23	5.68	-1.73	-1.11	-0.62	7.42	-11.21	0
2000	22	4	270.76	14.96	278.01	16.42	275.2	25.71	12.57	11.16	6.15	-1.81	-1.06	-0.75	6.67	-10.2	0
2000	22	5	280.6	12.78	288.76	14.69	283.91	25.14	14.6	12.55	6.56	-1.76	-1.07	-0.69	6.33	-10.09	0
2000	22	6	287.71	14.7	296.51	17.02	289.72	31.16	12.64	10.64	5.18	-1.76	-1.12	-0.64	6.16	-10.63	0
2000	22	7	284.37	18.65	293.69	20.89	292.92	38.58	13.97	12.17	5.79	-1.79	-1.09	-0.7	5.68	-11.84	0
2000	22	8	292.8	18.33	304.37	19.16	300.93	35.12	16.58	14.3	7.28	-2.18	-1.13	-1.05	6.45	-9.6	0
2000	22	9	298.74	26.02	315.13	25.65	322.44	39.01	15.18	14.13	6.96	-2.31	-1.1	-1.22	7.79	-9.68	0
2000	22	10	298.21	19.59	315.16	19.96	320.57	34.04	19.55	17.79	9.23	-2.55	-1.14	-1.41	9.6	-9.24	0
2000	22	11	299.81	16.96	307.91	20.38	305.04	32.54	21.08	18.96	9.01	-3.07	-1.26	-1.81	12.1	-8.06	0
2000	22	12	300.87	13.31	313.06	15.92	312.04	28.27	21.28	20.06	9.66	-2.99	-1.21	-1.78	13.67	-7.86	0
2000	22	13	295.96	13.67	308.78	15.66	309.89	28.4	20.98	19.13	8.78	-3.07	-1.24	-1.83	15.53	-7.01	0
2000	22	14	292.1	10.11	303.66	13.12	304.27	24.28	19.7	18.45	8.86	-2.86	-1.23	-1.63	16.9	-6.83	0
2000	22	15	282.95	11.43	294.23	13.69	295	28	16.61	14.81	7.06	-2.69	-1.28	-1.41	17.95	-5.46	0
2000	22	16	275.31	13.13	285.27	15.97	280.59	26.95	15.64	13.79	6.87	-2.12	-1.16	-0.96	17.55	-7	0
2000	22	17	284.43	16.21	294.28	20.34	292.53	32.56	12.54	10.98	5.64	-1.78	-1.12	-0.66	16.77	-7.75	0
2000	22	18	312.82	16.76	326.18	21.55	324.86	34.82	13.73	12.19	5.59	-1.78	-1.1	-0.68	16.11	-7.35	0
2000	22	19	311.71	18.36	323.15	23.22	327.66	42.69	11.18	10.13	4.88	-1.78	-1.07	-0.71	15.63	-7.18	0
2000	22	20	287.15	24.14	296.1	26.33	295.75	60.14	7.53	6.9	3.22	-1.69	-1.01	-0.68	15.22	-7.37	0
2000	22	21	256.22	43.22	249.49	41.83	247.24	49.22	5.73	4.79	3.01	-1.78	-1.01	-0.77	15.15	-7.33	0
2000	22	22	250.01	16.17	253.47	13.82	243.52	21.64	6.81	6.54	3.44	-1.81	-1.04	-0.77	14.94	-7.14	0
2000	22	23	247.18	18.23	254.68	20.1	235.35	40.41	5.39	4.55	2.5	-1.64	-1	-0.64	14.65	-7.34	0
2000	23	0	254.16	9.81	261.81	10.1	263.68	29.98	6.67	5.83	2.93	-1.65	-1.03	-0.62	14.76	-6.94	0
2000	23	1	252.1	14.22	248.65	11.78	227.78	22.4	5.16	4.89	2.95	-1.6	-0.95	-0.65	14.72	-7.07	0
2000	23	2	210.69	10.41	218.68	11.49	192.51	18.23	6.03	5.65	3.09	-1.43	-0.86	-0.56	14.49	-6.59	0
2000	23	3	228.74	26.11	257.42	23.27	237.7	40.06	3.35	2.35	1.48	-1.39	-0.87	-0.52	14.64	-5.96	0
2000	23	4	21.04	33.69	27.12	12.85	34.38	36.05	2.48	3.95	3.28	0.05	-0.3	0.35	13.3	-3.86	0
2000	23	5	26.6	14.79	18.7	4.96	33.99	9.3	3.52	6.68	5	1.42	0.36	1.06	11.76	-5.02	0
2000	23	6	39.88	11.88	16.99	4.82	31.13	9.97	4.1	7.41	5.24	1.66	0.84	0.82	11.35	-5.64	0
2000	23	7	25.58	5.59	22.55	3.9	32.14	9.44	7.73	9.36	6.87	0.87	0.56	0.32	10.91	-4.47	0

2000	23	8	29.25	7.26	25.34	4.36	38.63	9.99	6.22	7.38	5.73	0.21	-0.07	0.27	11.26	-3.67	0
2000	23	9	32.9	22.72	52.53	11.43	45.2	16.3	3.15	4.95	4.25	-0.95	-0.16	-0.79	13.05	-2.73	0
2000	23	10	89.72	50.09	56.72	44.58	13.96	21.51	1.95	1.99	2.05	-1.54	-0.8	-0.74	15.75	-2.43	0
2000	23	11	329.18	65.34	347.79	28.11	358.22	38.2	2.01	2.31	2.02	-1.77	-0.86	-0.91	18.04	0.17	0
2000	23	12	21.89	62.53	2.7	32.89	12.9	24.33	1.99	2.66	2.66	-1.88	-0.97	-0.91	19.77	2.18	0
2000	23	13	291.85	64.71	261.02	29.77	274.48	31	2.11	3.38	3.18	-2.03	-0.91	-1.12	21.75	3.61	0
2000	23	14	206.4	16.61	238.64	16.43	252.91	24.95	3.58	3.87	3.07	-2.02	-0.88	-1.14	23.36	5.15	0
2000	23	15	175.71	13.96	200.9	15.51	199.77	22.71	4.86	4.52	3.48	-2.04	-0.92	-1.13	24.81	7.69	0
2000	23	16	150.25	12.23	169.29	12.64	169.74	18.16	5.34	4.79	3.34	-1.93	-1.01	-0.93	25.4	8.62	0
2000	23	17	120.74	7.91	131.15	9.62	131	25.22	6.81	6.15	2.72	-1.87	-1.05	-0.82	25.28	8.35	0
2000	23	18	92.3	14.77	98.3	16.64	94.15	28.83	5.94	5.12	2.53	-1.87	-1.02	-0.84	24.86	8.36	0
2000	23	19	101.54	15.42	112.06	17.91	114.05	36.31	4.89	3.81	1.87	-1.85	-1.03	-0.82	24.59	8.64	0
2000	23	20	51.8	31.74	63.97	23.25	63.52	54.7	2.57	2.25	1.45	-1.88	-1.03	-0.85	24.69	9.04	0
2000	23	21	42.74	11.51	59.85	9.66	67.61	21.95	2.86	3.09	1.89	-1.79	-0.97	-0.82	24.69	9.31	0
2000	23	22	27.41	12.98	44.48	13.16	37.24	20.35	3.84	3.65	2.51	-1.81	-0.99	-0.82	24.72	9.81	0
2000	23	23	7.61	12.79	25.03	12.93	32.15	16.96	5.52	5.28	3.86	-1.78	-0.94	-0.84	24.72	9.98	0
2000	24	0	7.65	9.62	25.84	10.41	32.3	16.96	7.66	7.58	4.47	-1.7	-0.87	-0.83	24.76	10.25	0
2000	24	1	26.19	8.93	43.22	5.84	44.87	13.48	6.43	6.38	3.84	-1.6	-0.83	-0.77	24.47	9.69	0
2000	24	2	26.3	11.01	41.15	7.73	38.56	13.88	5.8	5.7	4.08	-1.8	-0.92	-0.88	24.52	9.83	0
2000	24	3	6.41	10.62	26.72	11.13	26.53	16.1	6.66	5.97	3.91	-1.62	-0.78	-0.85	24.44	9.85	0
2000	24	4	353.02	13.63	5.2	10.15	6.89	17.98	7.94	7.8	5.03	-1.88	-1.02	-0.86	25.12	11.07	0
2000	24	5	338.09	15.46	1.03	14.12	9.92	17.59	6.71	6.61	4.68	-1.54	-0.78	-0.75	25.72	11.44	0
2000	24	6	349.72	19.16	43.36	14.1	62.86	25.69	4.25	4.66	2.86	-1.06	-0.47	-0.59	25.8	10.97	0
2000	24	7	15.03	9.57	48.09	13.8	67.3	26.25	4.43	3.81	2.21	-1.45	-0.72	-0.72	25.89	11.21	0
2000	24	8	114.14	21.28	156.04	14.36	172.43	22.38	2.07	2.46	2.19	-1.52	-0.7	-0.82	26.14	11.81	0
2000	24	9	179.99	16.95	177.86	19.44	176.58	25.73	2.92	2.58	2.09	-1.86	-0.96	-0.9	27.13	12.68	0
2000	24	10	179.68	19.43	184.67	22.04	181.39	31.14	3.16	3.18	2.67	-1.98	-0.99	-0.99	28.38	14	0
2000	24	11	160.33	34.85	160.37	51.23	175.35	42.73	2.46	2.47	2.27	-2.03	-1	-1.02	29.98	15.31	0
2000	24	12	156.47	29.97	198.79	34.95	213.76	29.68	3.22	3.31	3.23	-1.74	-0.76	-0.98	32.07	17	0
2000	24	13	126.21	19.89	181.73	45.15	227.11	25.86	3.05	2.99	3.2	-1.14	-0.6	-0.54	33.31	17.56	0
2000	24	14	81.24	66.53	169.4	39.19	190.7	26.92	2.12	2.38	2.98	-1.57	-0.91	-0.66	35.74	18.55	0
2000	24	15	328.58	44.42	310.72	53.46	272.35	57.71	2.61	2.24	1.98	-1.85	-0.93	-0.92	37.23	18.79	0
2000	24	16	311.21	15.01	309.36	30.48	301.88	59.71	5.2	3.78	1.66	-0.83	-0.7	-0.13	36.58	17.28	0
2000	24	17	0.17	10.65	10.45	12.05	13.16	17.47	6.3	5.81	2.8	-0.61	-0.71	0.11	35.8	15.77	0
2000	24	18	12.32	5.16	18.74	6.11	29.54	12.47	8.88	7.58	4.58	1.07	-0.4	1.47	33.11	15.43	0
2000	24	19	5.85	7.95	11.53	7.84	18.73	11.95	10.02	8.4	4.94	-0.36	-0.43	0.07	32.59	15.2	0
2000	24	20	353.09	10.12	359.15	11.51	7.64	17.79	15.65	14.26	6.78	-1.39	-0.79	-0.6	31.39	16	0
2000	24	21	1.05	12.82	7.29	10.57	13.16	18.05	13.52	12.42	6.99	-1.79	-1.08	-0.71	29.95	14.81	0
2000	24	22	356.49	13.45	0.53	11.93	4.63	20.16	15.79	15.11	7.53	-1.81	-1.05	-0.76	28.54	12.68	0
2000	24	23	355.63	12.06	359.99	12.57	8.03	18.94	18.37	17.24	8.89	-1.88	-1.1	-0.78	27.69	10.36	0
2000	25	0	355.96	13.82	0.52	12.99	10.95	18.99	19.96	18.64	9.63	-2.02	-1.14	-0.88	27.11	8.82	0
2000	25	1	356.69	12.27	2.4	12.77	9.23	19.98	19.14	17.3	9.27	-2.08	-1.13	-0.95	26.64	8.41	0
2000	25	2	354.06	11.8	0.19	13.32	9.28	18.95	21.69	19.91	10.37	-2.13	-1.2	-0.93	26.45	8.49	0
2000	25	3	352.03	11.22	358.61	12.22	4.98	21.93	21.67	20.58	10	-2.17	-1.21	-0.96	25.72	8.14	0
2000	25	4	351.06	10.35	358.17	13.66	7.93	22.09	25.19	23.58	11.85	-2.18	-1.23	-0.95	25.42	8.52	0
2000	25	5	355.7	13.4	1.21	13.42	12.27	18.91	24.41	22.63	12.08	-2.19	-1.17	-1.02	24.54	8.96	0
2000	25	6	353.69	13.74	0.58	12.53	5.94	19.59	21.83	20.76	10.69	-1.58	-0.69	-0.89	22.02	11.52	0.01
2000	25	7	349.78	9.34	356.93	14.09	3.95	21.74	28.16	25.4	12.07	-0.63	0.04	-0.67	23.1	14	0.06
2000	25	8	349.1	11.49	358.26	14.6	7.93	22.05	30.62	26.89	13.26	-0.51	0.21	-0.73	23.47	12.79	0.06

2000	25	9	349.02	11.42	358.22	15.36	5.53	22.33	34.42	31.37	15.13	-0.47	0.16	-0.63	23.49	8.55	0.01
2000	25	10	351.06	12.44	0.37	15.12	11.52	22.67	35.47	31.45	16.08	-1.13	-0.08	-1.04	24.91	8.93	0
2000	25	11	350.01	13.24	358.44	17.6	6.79	22.44	35.45	32.97	15.67	-1.47	-0.36	-1.12	24.73	9.3	0
2000	25	12	352.12	13.78	0.06	15.27	13.02	19.18	32.51	29.62	15.39	-1.44	-0.31	-1.13	25.03	9.93	0
2000	25	13	351.89	12.74	359.35	17.61	11.82	20.67	28.29	26.5	13.92	-1.48	-0.4	-1.08	25.32	10.88	0
2000	25	14	349.55	9.11	357.49	16.3	4.78	21.32	28.02	27.35	13.5	-1.25	-0.29	-0.96	25.43	11.3	0
2000	25	15	350.5	11.41	0.01	16.54	2.6	20.45	30.1	29.65	15.95	-0.97	-0.13	-0.84	25.71	10.67	0
2000	25	16	351.77	12.19	0.51	15.3	6.1	21.67	30.43	29.62	15.5	-0.82	0.02	-0.84	26.01	10.75	0
2000	25	17	351.06	10.87	359.49	15.69	5.19	20.9	31.32	31.02	15.89	-0.88	-0.07	-0.82	26.03	10.39	0.03
2000	25	18	350.35	9.67	358.83	15.63	5.74	21.24	30.54	30.78	15.86	-0.9	-0.12	-0.78	26.14	10.68	0
2000	25	19	348.9	12.13	358.92	15.75	7.93	20.17	34.52	34.06	17.74	-0.88	-0.12	-0.76	26.58	10.12	0.06
2000	25	20	348.07	8.85	357.88	16.05	7.69	21.42	36.72	35.15	17.27	-0.6	0.15	-0.76	26.32	10.3	0
2000	25	21	348.54	9.17	358.05	13.85	8.08	20.4	38.59	36.96	17.84	-0.47	0.3	-0.77	26.49	10.42	0.01
2000	25	22	346.66	8.44	356.34	15.83	6.61	21.34	35.9	33.82	15.47	-0.44	0.32	-0.76	26.16	11.27	0
2000	25	23	346.7	8.31	357.53	15.13	6.01	21.31	33.67	31.84	15.09	-0.47	0.34	-0.81	26.26	11.16	0
2000	26	0	345.74	7	357.28	14.77	357.1	22.25	22.51	21.66	9.11	-0.93	0.03	-0.96	25.09	14.15	0
2000	26	1	332.29	11.11	344.01	12.19	339.7	27.98	17.55	17.19	7.11	-1.02	-0.19	-0.82	24.53	12.89	0
2000	26	2	313	16.85	325.42	16.43	328.05	29.95	12.94	12.08	5.47	-1.19	-0.36	-0.83	24.45	10.17	0
2000	26	3	300.7	13.01	314.19	15.25	313.17	33.84	16.47	15.29	6.03	-1.51	-0.69	-0.83	23.74	6.31	0
2000	26	4	290.32	11.41	302.01	14.92	308.66	31.85	16.4	14.29	5.78	-1.72	-0.85	-0.87	23.54	5.05	0
2000	26	5	295.17	8.36	311.11	11.29	314.34	31.11	23.41	21.47	8.31	-2.05	-1.12	-0.93	23.47	4.96	0
2000	26	6	304.69	10.75	320.31	13.28	322.47	33.54	20.56	19.17	7.42	-2.03	-1.1	-0.93	23.34	4.79	0
2000	26	7	306.46	12.3	323.05	15.1	324.88	37.67	17.41	15.04	6.02	-1.96	-1.08	-0.87	23.39	4.89	0
2000	26	8	297.86	11.42	309.4	15.04	307.8	40.76	14.2	11.89	4.8	-2.16	-1.2	-0.97	23.55	6.72	0
2000	26	9	285.23	14.13	293.85	17.29	288.91	32.05	10.05	8.6	4.46	-2.36	-1.18	-1.19	23.88	9.59	0
2000	26	10	302.97	17.29	315.87	20.58	320.93	36.42	15.18	13.5	6.83	-2.43	-1.19	-1.24	25.31	10.48	0
2000	26	11	318.86	15.65	335.52	16.25	333.75	30.13	17.29	16.18	7.57	-2.59	-1.14	-1.46	27.03	10.09	0
2000	26	12	316.5	17.49	329.92	20.39	331.64	28.4	19.08	17.1	8.46	-2.72	-1.18	-1.54	28.53	9.12	0
2000	26	13	314.84	12.34	327.26	14.89	326.84	28.23	17.8	16.97	7.57	-2.75	-1.16	-1.59	29.39	8.42	0
2000	26	14	321.12	12.42	334.46	14.38	329.27	28.78	17.75	16.89	7.57	-2.63	-1.14	-1.49	29.92	9.21	0
2000	26	15	321.21	11.57	335.99	13.97	335.64	25.14	17.83	17.27	7.8	-2.34	-1.1	-1.24	29.86	9.89	0
2000	26	16	313.6	14.75	327.39	16.47	327.13	27.55	12.92	12.26	5.55	-1.99	-1.11	-0.88	29.44	9.02	0
2000	26	17	301.24	12.52	311.58	16.41	309.47	28.53	11.97	10.5	4.8	-1.72	-1.17	-0.55	28.57	7.75	0
2000	26	18	298.16	11.58	307.52	11.96	308.52	26.3	17.1	15.58	7.04	-2.16	-1.24	-0.92	27.53	7.86	0
2000	26	19	307.38	15.59	316.4	16.9	324.93	28.23	13.55	11.84	5.61	-1.97	-1.17	-0.8	25.85	6.02	0
2000	26	20	318.51	15.18	333.88	14.92	334.08	28.69	13.48	12.67	6.48	-1.91	-1.09	-0.82	24.34	4.69	0
2000	26	21	325.24	16.02	338.09	17.79	336.71	24.21	14.53	13.35	6.4	-1.97	-1.08	-0.89	23.4	3.92	0
2000	26	22	324.57	14.91	336.09	15.86	333.16	28.23	16.9	15.22	6.92	-1.97	-1.09	-0.89	22.6	2.95	0
2000	26	23	320.94	14.52	333.68	17.03	333.04	29.05	15.35	13.85	6.61	-1.93	-1.08	-0.85	21.33	1.53	0
2000	27	0	316.69	14.58	333.7	15.81	329.23	26.06	13.25	12.39	6.11	-2.02	-1.1	-0.92	20.15	0.27	0
2000	27	1	311.24	17.56	322.83	17.74	329.88	32.03	11.67	10.29	5.2	-1.98	-1.13	-0.85	18.98	-0.86	0
2000	27	2	315.87	20.59	329.69	22.21	333.52	33.59	12.16	10.9	5.71	-1.84	-1.08	-0.75	17.38	-2.19	0
2000	27	3	324.94	18.87	342.23	19.62	340.99	29.35	12.66	11.44	5.89	-1.88	-1.07	-0.81	16.52	-2.87	0
2000	27	4	309.44	17.47	322.09	19.56	323.54	35.84	12.94	12	5.61	-2.03	-1.15	-0.88	15.84	-3.36	0
2000	27	5	306.78	13.95	318.2	16.28	318.66	34.85	18.12	16.23	6.92	-2.24	-1.21	-1.03	14.55	-4.09	0
2000	27	6	307.17	14.07	321.05	16.72	325.77	40.51	20.15	17.29	7.81	-2.24	-1.23	-1.01	13.67	-5.05	0
2000	27	7	302.29	14.16	316.25	19.08	320.67	52.84	21.19	17.15	6.74	-2.4	-1.32	-1.09	12.65	-5.68	0
2000	27	8	300.79	10.44	312.06	14.57	314.67	36.64	29.34	25.48	10.04	-2.79	-1.37	-1.42	12.29	-5.22	0
2000	27	9	305.23	21.25	315.87	22.9	321.79	39.75	17.52	15.85	7.95	-2.54	-1.21	-1.34	12.42	-6.08	0

2000	27	10	307.64	15.96	319.7	18.19	318.08	33.18	19.19	17.9	8.8	-2.8	-1.23	-1.57	13.3	-5.76	0
2000	27	11	305.15	13.21	317.24	16.78	314.44	29.98	21.84	19.15	8.73	-3.05	-1.28	-1.76	14.73	-4.91	0
2000	27	12	304.72	11.74	316.61	15.35	317.73	30.09	24.4	22.65	9.51	-3.11	-1.28	-1.83	16.15	-4.07	0
2000	27	13	303.64	19.34	314.45	20.07	313.1	33.29	21.54	19.54	9.51	-2.87	-1.22	-1.65	17.5	-4.42	0
2000	27	14	306.48	13.91	318.82	16.89	318.79	28.02	22.49	20.41	9.46	-2.81	-1.23	-1.58	18.57	-3.56	0
2000	27	15	309.89	13.76	322.13	17.89	318.06	27.53	22.23	20.48	9.49	-2.62	-1.19	-1.42	18.49	-3.18	0
2000	27	16	295.27	12.05	307.06	14.54	308.27	27.97	22.56	20.5	9.5	-2.29	-1.23	-1.07	17.09	-4.85	0
2000	27	17	296.12	13.45	308.32	16.06	307.36	29.53	19.71	17.77	8.17	-2.11	-1.24	-0.87	15.46	-5.79	0
2000	27	18	299.95	16.36	312.48	17.19	314.31	34.41	17.72	15.63	6.98	-1.98	-1.19	-0.8	13.79	-6.82	0
2000	27	19	295.76	17.43	308.66	19.79	315.74	36.86	18.37	16.26	7.66	-1.91	-1.18	-0.73	13.13	-6.71	0
2000	27	20	301.97	20.57	319.63	20.95	328.06	33.73	15.27	13.58	7.08	-1.83	-1.1	-0.73	12.65	-7.38	0
2000	27	21	303.78	11.97	318.88	13.77	317.68	27.36	20.93	19.05	8.38	-1.95	-1.15	-0.8	12.24	-6.41	0
2000	27	22	301.57	11.43	314.95	12.9	316.18	26.62	22.63	20.19	8.18	-2.02	-1.16	-0.86	11.84	-6.18	0
2000	27	23	289.07	9.82	299.43	11.06	297.59	24.6	27.02	24.14	11.22	-2.04	-1.2	-0.84	11.22	-6.48	0
2000	28	0	291.47	13.26	300.83	17.33	305.58	41.94	27.73	22.84	10.11	-1.99	-1.16	-0.83	10.79	-6.41	0
2000	28	1	306.93	27.89	324.11	32.05	315.75	47.95	17.27	14.52	7.76	-1.82	-1.07	-0.75	10.3	-8.13	0
2000	28	2	299.17	35.54	312.3	41.74	309.2	66.17	15.55	13.25	7.7	-1.78	-1.07	-0.72	9.63	-8.5	0
2000	28	3	304.19	10.31	319.2	12.28	321.02	24.04	30.62	27.62	12.07	-1.94	-1.08	-0.86	9.25	-8.26	0
2000	28	4	302.09	11.5	317.09	13.2	317.73	25.34	24.84	22.61	9.55	-2.04	-1.16	-0.88	8.75	-8.04	0
2000	28	5	299.2	10.34	311.36	12.77	314.33	25.04	22.41	19.59	8.39	-2.14	-1.25	-0.89	8.59	-7.78	0
2000	28	6	297.52	14.13	310.97	17.39	315.47	33.34	15.74	13.72	5.84	-1.95	-1.21	-0.73	8.01	-8.85	0
2000	28	7	304.37	20.15	317.37	22.19	323.59	45.19	13.77	11.36	5.55	-1.77	-1.09	-0.68	7.87	-9.95	0
2000	28	8	302.34	12.73	316.12	14.74	314.14	28.44	19.14	16.69	7.53	-2.33	-1.19	-1.14	9.14	-8.31	0
2000	28	9	300.41	17.35	313.09	21.08	313.58	34.93	18.94	16.52	7.98	-2.52	-1.17	-1.35	10.66	-7.35	0
2000	28	10	300.72	15.91	311.89	20.24	316.06	37.2	20.14	17.55	8.51	-2.6	-1.14	-1.45	13.2	-6.15	0
2000	28	11	295.2	14.24	308.66	17.05	305.13	28.42	20.93	19.22	9.58	-2.86	-1.19	-1.67	16.4	-4.67	0
2000	28	12	296.64	16.12	311.42	17.6	309.86	28.67	20.21	18.14	9.18	-2.87	-1.2	-1.67	18.49	-3.37	0
2000	28	13	295.89	13.59	309.56	16.92	306.08	30.23	23.72	21.67	9.82	-2.84	-1.18	-1.66	20.32	-2.16	0
2000	28	14	291.89	13.61	304.01	14.89	303.87	28.74	20.68	18.84	8.65	-2.89	-1.23	-1.65	22.16	-0.53	0
2000	28	15	290.13	11.63	303.74	13.64	302.97	26.27	26.1	23.24	10.87	-2.65	-1.24	-1.42	22.46	-0.09	0
2000	28	16	289.14	10.44	301.77	12.31	300.17	26.57	27.68	24.63	11.04	-2.27	-1.21	-1.05	21.93	-0.84	0
2000	28	17	292.03	10.87	304.19	13.35	306.26	26.11	28.27	24.44	10.75	-2.05	-1.15	-0.9	21.18	-1.28	0
2000	28	18	300.19	22.03	312.74	23.63	326.74	40.76	21.59	19	8.62	-1.95	-1.13	-0.82	20.38	-1.74	0
2000	28	19	314.09	19.1	322.09	23.27	323.06	38.96	16.99	14.64	6.89	-1.83	-1.13	-0.71	19.73	-1.74	0
2000	28	20	315.14	19.73	324.29	23.2	323.17	41.04	14.74	12.9	5.87	-1.79	-1.1	-0.69	19.06	-1.88	0
2000	28	21	328.62	18.47	341.19	18.66	339.91	31.96	17.41	15.92	7.85	-1.73	-1.04	-0.69	18.88	-1.55	0
2000	28	22	331.73	17.44	344.97	17.76	343.18	27.09	20.93	18.66	9.88	-1.71	-1.01	-0.69	18.98	-0.99	0
2000	28	23	330.97	17.86	344.18	19.56	344.11	27.32	19.92	18.15	9.57	-1.73	-1.03	-0.7	18.92	-0.8	0
2000	29	0	325.71	15.85	343.9	16.53	341.59	27.52	19.48	17.43	9.02	-1.74	-1.02	-0.72	18.46	-1.29	0
2000	29	1	325.52	10.39	341.46	11.83	341.08	26.68	16.51	15.58	7.1	-1.73	-1.04	-0.69	18.18	-2.26	0
2000	29	2	320.51	14.3	337.12	16.97	337.26	25.53	13.4	11.86	6.2	-1.61	-1	-0.61	18.19	-2.4	0
2000	29	3	331.57	18.81	351.13	17.68	355.58	23.7	12.23	11.1	6.67	-1.52	-0.97	-0.56	18.17	-2.49	0
2000	29	4	333.22	27.33	355.49	26.7	6.84	37.42	8.46	7.13	4.29	-1.42	-0.95	-0.47	18.16	-3.24	0
2000	29	5	346.91	17.37	14.73	20.02	30.14	25.63	10.92	9.6	5.45	-0.73	-0.61	-0.12	17.13	-3.49	0
2000	29	6	348.64	15.08	33.65	13.93	52.16	17.45	7.67	7.05	4.02	0.27	-0.16	0.43	15.32	-4.6	0
2000	29	7	349.89	10.62	21.26	7.89	37.13	16.33	8.28	8.64	4.74	0.55	0.03	0.51	14.1	-4.25	0
2000	29	8	8.63	8.46	30.57	9.3	46.08	15.07	8.61	8.78	5.08	-0.92	-0.67	-0.24	14.01	-3.57	0
2000	29	9	352.54	11.03	6.99	12.62	7.71	18.76	8.2	7.5	5.18	-2.11	-1.02	-1.08	17.14	-1.08	0
2000	29	10	347.59	10.15	357.28	12.96	350.41	24.75	10.5	9.56	5.34	-2.69	-1.22	-1.47	20.53	-0.29	0

2000	29	11	346.07	15.17	0.93	16.58	358.74	26.16	7.16	6.56	4.66	-2.38	-1.12	-1.26	22.41	-0.55	0
2000	29	12	338.67	11.92	353.57	12.88	354.5	22.54	8.26	7.79	5.09	-2.67	-1.15	-1.52	25.27	-1.12	0
2000	29	13	329.31	11.93	340.7	13.45	337.26	24.43	9.86	9.43	5.26	-2.74	-1.13	-1.61	28.86	-0.27	0
2000	29	14	341.82	9.03	348.99	11.49	345.86	23.28	11	10.33	5.46	-2.58	-1.14	-1.44	31.68	-0.24	0
2000	29	15	324.61	9.59	333.42	9.64	336.44	23.24	10.68	10.37	4.59	-2.38	-1.05	-1.33	32.92	-0.03	0
2000	29	16	325.21	6.79	335.82	8.4	336.65	19.83	10.45	10.37	4.42	-1.93	-1.01	-0.92	32.66	-1.43	0
2000	29	17	338.78	9.46	351.73	8.35	350.02	17.43	8.94	8.47	4.12	-1.26	-0.91	-0.35	31.58	-1.07	0
2000	29	18	345.53	8.07	5.66	6.96	16.37	18.34	10.33	9.76	5.05	-0.33	-0.59	0.26	29.89	0.03	0
2000	29	19	359.1	16.73	14.37	11.61	24.98	18.08	14.69	11.14	5.58	-0.25	-0.42	0.17	28.17	0.98	0
2000	29	20	353.92	11.62	6.75	7.07	12.18	15.41	13.93	12.25	7.61	-0.3	-0.33	0.02	27.33	0.54	0
2000	29	21	347.4	7.17	4.88	9.41	20	13.51	14.5	11.84	6.76	0.42	-0.05	0.47	26.29	-0.01	0
2000	29	22	341.83	12.22	14.95	9.2	30.37	15.43	11.47	10.55	5.66	1.07	0.8	0.27	24.42	-0.58	0
2000	29	23	349.03	13.87	21.89	6.28	38.68	10.88	11.21	10.89	7.44	2.16	1.42	0.74	21.84	0.28	0
2000	30	0	353.2	13.13	13.64	9.02	46.29	21.89	11.2	9.6	4.41	0.87	-0.11	0.99	21.82	-1.49	0
2000	30	1	353.57	15.94	11.52	12.16	27.9	21.54	10.01	8.56	5.1	1.26	0.59	0.67	20.88	-1.29	0
2000	30	2	357.94	16.74	19.84	6.59	38.3	12.15	12.68	11.67	6.79	2.3	1.44	0.86	19.39	-1.96	0
2000	30	3	348.79	13.42	8.56	16.79	51.83	16.45	7.62	6.67	4.49	2.41	0.55	1.86	19.13	-2.46	0
2000	30	4	1.87	14.14	6.85	26.63	47.75	54.97	7.79	5.27	3.41	2.68	1.23	1.45	17.8	-0.92	0
2000	30	5	2.84	15.08	352.4	39.36	51.57	42.64	9.86	5.71	3.65	2.65	1.22	1.43	17.08	-1.13	0
2000	30	6	350.92	19.68	221.7	46.34	163.43	28.97	4.62	2.7	2.17	2.51	1.25	1.26	15.92	-0.39	0
2000	30	7	356.65	23.64	276.5	45.13	78.98	24.48	4.23	2.54	2.81	2.54	0.7	1.85	14.88	-1.51	0
2000	30	8	314.13	38.96	217.87	46.37	103.32	40.14	2.27	2.18	1.92	1.76	1.29	0.47	16.4	0.03	0
2000	30	9	315.74	56.96	111.97	54.11	118.14	55.65	1.98	2.28	2.26	-0.85	-0.1	-0.75	19.34	1.48	0
2000	30	10	24.55	22.62	59.43	36.16	61.97	52.45	2.86	2.53	2.42	-1.19	-0.32	-0.87	22.22	2.58	0
2000	30	11	33.78	30.28	43.27	39.57	32.87	20.03	2.75	2.62	2.92	-1.12	-0.41	-0.71	24.51	3.18	0
2000	30	12	63.21	36.97	64.57	36.83	9.42	31.03	2.84	2.99	2.96	-1.12	-0.33	-0.79	26.62	5.27	0
2000	30	13	21.18	13.51	39.4	13.92	46.04	14.94	3.9	3.72	3.64	-0.92	-0.12	-0.8	28.29	5.4	0
2000	30	14	62.89	49.62	33.21	59.42	315.89	45.14	3.06	2.89	2.67	-1.52	-0.75	-0.77	31	7.29	0
2000	30	15	86.33	40.19	217.89	55.18	167.44	49.54	2.06	1.99	1.91	-0.68	-0.14	-0.54	31.79	8.06	0
2000	30	16	255.22	32.09	327.32	34.97	88.35	48.66	1.65	2.35	2.46	-0.13	-0.02	-0.11	31.66	9.18	0
2000	30	17	214.57	20.33	278.78	31.4	73.81	38.83	2.18	1.83	1.64	1.25	0.31	0.94	30.99	7.71	0
2000	30	18	219.88	22.8	221.15	28.66	139.04	30.49	4.26	3.6	2.69	1.59	0.28	1.31	30.65	9.28	0
2000	30	19	156.14	8.55	128.24	26.05	40.85	21.07	4.01	2.71	1.85	0.81	0.55	0.26	31.17	10.42	0
2000	30	20	134.08	13.68	140.26	31.82	247.45	56.69	4.17	2.73	1.67	-0.54	-0.45	-0.09	30.68	12.26	0
2000	30	21	55.44	14.72	46.24	18.11	19.11	29.87	5.23	3.88	2.64	-1.15	-0.47	-0.67	27.41	17.04	0.03
2000	30	22	39.64	11.5	25.34	11.65	5.94	15.46	7.37	6.1	4.11	-0.79	-0.2	-0.59	27.39	18	0.14
2000	30	23	11.85	11.6	7.67	9.71	357.05	15.93	10.67	10.38	6.13	0.27	1.05	-0.78	27.99	19.31	0.18
2000	31	0	20.79	12.48	11.16	9.34	359.49	17.31	10.37	9.55	5.95	1.88	2.16	-0.28	31	22.44	0.07
2000	31	1	39.33	25.33	9.19	15.18	350.99	18.04	6.32	6.37	4.49	6.7	6.31	0.39	32.93	24.31	0.06
2000	31	2	306.71	27.99	308.84	19.78	309.66	36.4	10.09	10.52	5.1	2.48	1.92	0.56	34.21	25.01	0.1
2000	31	3	326.39	12.63	348.03	20.59	27.67	30.75	17.28	12.67	6.6	0.47	0.73	-0.26	31.13	21.38	0.01
2000	31	4	346.13	9.28	3.89	15.28	21.87	17.44	17.39	14.23	8.19	0.28	0.87	-0.59	31.42	22.12	0
2000	31	5	354.23	11.52	10.26	17.72	33.05	32.67	17.5	12.6	6.07	0.17	0.73	-0.55	32.09	21.51	0
2000	31	6	313.51	13.56	332.32	17.65	1.26	45.11	11.94	9.72	4.01	-0.82	-0.32	-0.5	31.76	20.52	0
2000	31	7	281.84	11.27	291.82	13.8	286.47	24.56	12.05	10.08	4.53	-1.39	-0.78	-0.61	32.05	20.32	0
2000	31	8	261.78	13.65	269.25	16.39	265.34	32.22	11.98	10.12	4.77	-1.66	-0.93	-0.73	32.72	19.73	0
2000	31	9	273.22	8.12	284.77	10.64	282.96	25.68	23.42	20.25	8.96	-1.7	-0.97	-0.73	33.57	19.77	0
2000	31	10	265.58	10.42	273.67	12.49	272.83	27.63	23.65	20.27	9.09	-1.8	-0.97	-0.83	34.07	19.57	0
2000	31	11	257.96	18.1	267.68	20.31	266.9	37.57	12.92	10.43	5.57	-1.99	-1.03	-0.96	34.94	20.62	0

2000	31	12	266.28	10.56	277.07	13.3	276.28	26.4	21.82	19.69	8.71	-2.13	-1.07	-1.06	35.44	19.57	0
2000	31	13	270.46	10.73	281.4	14.98	280.37	28.17	23.87	21.35	9.75	-2.2	-1.09	-1.11	35.46	17.72	0
2000	31	14	263.2	12.31	272.88	15.93	274.14	28.22	21.55	18.9	9.04	-2.25	-1.09	-1.16	34.68	16.61	0
2000	31	15	264.87	11.07	276.59	13.84	275.67	27.14	22.26	19.91	9.15	-2.24	-1.09	-1.15	33.77	16.02	0
2000	31	16	264.67	11.21	272.59	13.85	272.08	28.78	19.03	15.87	7.33	-1.93	-1.05	-0.89	32.69	14.99	0
2000	31	17	271.02	9.7	281.42	11.79	280.71	23.32	21.62	19.16	9.06	-1.65	-1.04	-0.61	31.78	12.47	0
2000	31	18	260.91	14.5	269.6	15.25	267.13	28.82	11.88	10.57	5.49	-1.59	-1.02	-0.57	31.14	11.07	0
2000	31	19	234.58	11.15	237.15	12.28	224.15	35.97	10.12	8.23	3.29	-1.32	-0.93	-0.39	30.23	10.17	0
2000	31	20	230.71	10.94	226.46	9.77	204.78	40.51	9.69	8.26	2.97	-0.59	-0.73	0.14	29.2	9.49	0
2000	31	21	217	7.9	210.15	6.31	178.34	12.02	10.31	10.15	4.41	0.11	-0.53	0.64	28.31	9.72	0
2000	31	22	208.49	5.54	206.83	5.14	183.54	12.27	13.39	12.32	5.97	-0.17	-0.53	0.36	28.16	10.2	0
2000	31	23	194.84	3.87	201.29	6.28	183.59	11.8	14.58	11.35	5.97	-0.8	-0.75	-0.06	27.64	10.3	0
2000	32	0	195.5	5.2	199.58	6.31	185.38	12.53	14.24	11.1	5.74	-0.85	-0.78	-0.07	26.98	10.64	0
2000	32	1	190.54	4.52	189.26	4.81	181.15	11.3	12.19	10.28	4.57	0.05	-0.46	0.51	26.06	10.91	0
2000	32	2	196.93	6.04	185.75	4.3	183.44	24.23	11.43	10.06	3.48	1.45	0.52	0.93	25.11	10.69	0
2000	32	3	190.41	8.54	190.49	13.11	239.32	63.95	10.97	7.08	2.06	2.01	1.06	0.95	24.57	10.55	0
2000	32	4	191.73	8.93	191.97	7.38	205.2	46.29	11.28	10.78	3.04	1.65	-0.15	1.8	25.24	9.64	0
2000	32	5	187.44	7.61	187.98	6.23	176.63	13.26	12.08	12.21	6.13	-0.55	-0.82	0.26	27.55	9.52	0
2000	32	6	213.53	9.36	212.85	8.09	190.89	17.07	12.92	12.28	6.27	-1.06	-0.76	-0.3	27.92	9.23	0
2000	32	7	209.51	8.68	205.06	8.74	178.78	13.04	12.66	11.55	5.89	-0.75	-0.64	-0.11	27.22	9.04	0
2000	32	8	214.01	7.74	215.35	9.89	197.15	26.63	12.97	11.02	5.71	-1.16	-0.68	-0.49	27.52	9.35	0
2000	32	9	206.87	19.8	197.29	19.81	181.7	22.78	8.79	7.96	5.36	-2.19	-0.91	-1.28	29.58	11.11	0
2000	32	10	257.76	12.64	270.01	15.88	268.54	28.6	17.41	15.41	7.63	-2.28	-1.08	-1.21	31.61	10.98	0
2000	32	11	259.42	10.78	271.57	13.18	275.41	27.55	17.08	15.37	7.23	-2.32	-1.09	-1.24	32.03	11.21	0
2000	32	12	259.45	10.62	270.08	14.06	271.5	27.59	16.66	14.52	7.07	-2.8	-1.17	-1.63	33.71	12.8	0
2000	32	13	259.2	11.33	269.98	14.67	272.2	31.35	15.19	13.39	6.54	-2.28	-1.06	-1.21	34.28	12.14	0
2000	32	14	258.9	10.88	269.02	12.95	269.13	25.47	18.39	16.83	8.07	-2.25	-1.07	-1.17	34.82	12.4	0
2000	32	15	276	14.14	286.99	18.53	285.52	31.26	15.75	13.85	6.73	-2.31	-1.14	-1.17	35.19	12.81	0
2000	32	16	268.77	11.38	279.11	14.14	281	24.29	18.34	16.71	7.92	-1.89	-1.06	-0.83	34.53	11.7	0
2000	32	17	251.56	9.47	259.75	12.4	266.58	24.16	13.99	11.91	5.77	-1.54	-0.98	-0.56	33.28	11.12	0
2000	32	18	241.52	9.04	248.38	11.17	252.98	27.93	13.83	11.59	4.92	-1.38	-0.94	-0.44	32.51	11.14	0
2000	32	19	241.65	9.23	249.21	10.68	252.8	29.91	15.35	12.89	5.22	-1.42	-0.96	-0.46	31.71	11.22	0
2000	32	20	241.27	10.51	246.21	11.56	251.48	28.61	15.36	13.81	6.19	-1.61	-1.01	-0.6	31.1	11.48	0
2000	32	21	260.97	11.9	270.21	13.72	271.48	26.25	15.36	13.22	6.42	-1.7	-0.98	-0.72	29.61	13.27	0
2000	32	22	281.25	11.67	288.61	13.64	284.62	24	16.76	13.96	7.06	-1.65	-1.05	-0.61	29.25	14	0
2000	32	23	296.33	11.54	309.42	14.14	307.12	24.42	20.32	17.71	7.59	-1.94	-1.12	-0.82	28.18	13.24	0
2000	33	0	299.4	12.61	311.65	15.75	311.35	27.45	19.97	17.72	7.91	-2.03	-1.17	-0.87	26.12	9.48	0
2000	33	1	298.26	15.16	309.78	16.71	310.41	30.83	20.01	18.04	8.56	-1.86	-1.12	-0.75	25.33	4.97	0
2000	33	2	286.58	17.24	299.42	20.8	293.03	34.86	14.12	12.11	5.77	-1.73	-1.11	-0.62	24.35	3.03	0
2000	33	3	288.9	19.89	299.27	22.71	296.72	39.11	16.18	13.72	6.67	-1.72	-1.09	-0.63	23.41	2.35	0
2000	33	4	284.71	15.34	295.8	16.49	293.52	30.28	18.75	15.56	7.64	-1.8	-1.1	-0.71	22.63	2.12	0
2000	33	5	277.84	16.28	287.1	18.06	285.36	32.2	14.87	12.75	6.37	-1.71	-1.08	-0.63	21.85	1.78	0
2000	33	6	279.55	20.24	289.44	22.19	285.81	42.12	12.44	10.38	5.18	-1.64	-1.07	-0.57	21.36	2.01	0
2000	33	7	296.6	14.92	308.58	16.76	309.9	31.65	19.35	16.32	7.44	-1.85	-1.14	-0.7	21.7	2.65	0
2000	33	8	304.98	15.34	317.88	17.16	318.24	32.75	21.08	18.88	8.49	-2.14	-1.14	-1	21.98	2.1	0
2000	33	9	299.71	11.74	311.13	14.55	310.33	26.23	22.36	20.92	9.56	-2.64	-1.22	-1.43	22.27	2.32	0
2000	33	10	297.15	9.87	309.31	12.52	309.7	24.34	31.04	28.2	12.13	-2.93	-1.25	-1.68	22.58	2.5	0
2000	33	11	290.83	9.62	301.43	12.46	301.03	24.99	26.12	23.75	10.94	-3.09	-1.24	-1.84	23.15	2.48	0
2000	33	12	292.22	11.33	301.69	14.52	297	24.74	22.54	20.81	9.79	-3.18	-1.24	-1.94	24.48	2.85	0

2000	33	13	293.81	12.23	303.84	14.91	302.2	26.33	21.04	19.07	9.31	-2.97	-1.25	-1.72	25.7	3.25	0
2000	33	14	297.43	15.48	311.16	17.08	312.04	28.18	23.02	21.18	9.98	-2.7	-1.21	-1.49	26.38	3.46	0
2000	33	15	292.88	12.69	306.35	14.99	308.22	26.61	24.37	22.09	10.1	-2.61	-1.2	-1.41	26.66	3.54	0
2000	33	16	294.53	14.37	307.24	15.62	306.56	29.33	20.91	18.93	8.74	-2.18	-1.15	-1.03	26.64	0.58	0
2000	33	17	289.4	13.29	301.29	16.54	299.53	34.14	20.72	17.28	8.04	-1.82	-1.14	-0.68	25.49	-2.55	0
2000	33	18	289.3	11.91	302.75	14.21	302.71	27.39	25.62	22.08	10.18	-1.85	-1.13	-0.72	24.14	-2.76	0
2000	33	19	296.63	18.71	310.46	23.56	313.76	40.39	20.57	17.33	8.66	-1.79	-1.09	-0.7	23	-4.04	0
2000	33	20	307.12	18.89	318.94	20.66	324.4	33.07	17.14	15	7.38	-1.75	-1.11	-0.64	21.93	-4.14	0
2000	33	21	312.44	17.34	327.44	18.56	327.29	27.94	17.71	16.34	8.27	-1.76	-1.06	-0.7	20.72	-4.69	0
2000	33	22	319.65	17.73	333.02	18.91	336.31	29.1	15.3	13.53	7.02	-1.69	-1.06	-0.63	19.92	-4.67	0
2000	33	23	310.63	18.21	331.91	17.51	332.67	29.94	12.52	11.82	6.14	-1.68	-1.04	-0.64	19.13	-4.39	0
2000	34	0	297.86	15.91	311.16	18.61	313.51	37.89	15.65	13.17	5.79	-1.69	-1.13	-0.56	19.1	-2.89	0
2000	34	1	306.05	26.64	328.82	33.03	344.35	60.64	10.34	8.55	4.03	-1.49	-0.94	-0.55	19.49	-3.15	0
2000	34	2	284.07	25.76	291.01	39.49	275.21	61.19	11.19	8.14	4.25	-1.57	-0.97	-0.61	20.84	-0.83	0
2000	34	3	288.76	17.16	298.78	17.51	289.03	44.42	14.45	12.06	5.71	-1.84	-1.11	-0.72	21.95	1.82	0
2000	34	4	300.52	45.63	324.14	46.06	342.83	72.93	6.53	5.71	3.37	-1.7	-1.01	-0.69	21.88	1.51	0
2000	34	5	303.14	15.99	315.83	22.72	317.72	34.39	9.63	8.24	4.32	-1.8	-1.02	-0.78	22.02	1.25	0
2000	34	6	257.28	18.03	257.85	21.14	223.62	48	5.99	4.78	2.37	-1.62	-0.94	-0.68	22.18	0.66	0
2000	34	7	212.32	21.34	210.98	19.68	186.86	50.13	4.95	4.72	2.2	-1.59	-0.96	-0.63	22.53	0.37	0
2000	34	8	156.54	36.55	105.05	37.03	90.29	43.96	2.34	2.4	1.49	-1.71	-0.87	-0.83	22.78	1.65	0
2000	34	9	196.5	12.93	199.01	22.8	177.6	29.73	5.09	4.95	3.22	-2.09	-1.07	-1.02	23.27	2.07	0
2000	34	10	100.19	37.83	121.36	38.71	172.68	53.61	3.5	3.38	2.61	-2.14	-1.07	-1.07	24.16	2.63	0
2000	34	11	229.66	34.95	257.01	29.85	259.01	35.42	3.51	3.52	2.89	-2.14	-1.01	-1.13	24.85	4.34	0
2000	34	12	158.43	21.77	176.11	29.1	189.96	36.74	4.09	4	3.16	-2.15	-1.07	-1.08	25.66	5.33	0
2000	34	13	171.96	40.13	176.55	34.21	165.32	47.57	4.05	3.48	2.73	-1.9	-0.92	-0.98	25.04	9.08	0
2000	34	14	135.93	45.66	353.07	43.53	358.79	14.87	2.11	2.51	2.91	-1.18	-0.51	-0.67	24.5	11.92	0
2000	34	15	69.84	46.22	19.28	19.51	353.79	16.08	2.01	2.42	2.46	-1.22	-0.52	-0.7	24.43	13.43	0
2000	34	16	168.85	52.9	339.56	59.24	359.12	11.84	1.82	1.93	2.61	-0.84	-0.34	-0.5	25.27	13.79	0
2000	34	17	13.35	14.43	22.36	8.71	22.13	13.84	4.12	4.71	3.71	-0.92	-0.35	-0.56	25.68	13.87	0
2000	34	18	27.66	7.42	29.93	6.88	30.12	10.8	6.86	6.48	5.11	-0.99	-0.43	-0.56	25.65	14.22	0
2000	34	19	59.98	12.07	35.93	12.23	25.72	19.53	4.99	4.02	2.94	-1.03	-0.44	-0.59	25.29	14.56	0
2000	34	20	36.41	11.2	35.45	10.55	18.43	15.7	4.22	3.69	2.59	-0.99	-0.41	-0.58	25.03	14.52	0
2000	34	21	23.3	13.35	34.67	10.07	25.81	14.3	4.71	4.62	3.41	-0.87	-0.33	-0.54	24.94	14.38	0
2000	34	22	12.67	11.67	25.92	11.95	29.09	14.42	4.81	4.89	3.7	-0.5	-0.04	-0.46	24.81	14.44	0
2000	34	23	1.14	12	6.98	12.68	14.5	16.46	5.96	5.52	3.32	-0.58	-0.01	-0.57	24.94	14.51	0
2000	35	0	354.6	10.91	0.05	9.68	0.52	18.76	6.55	6.1	3.46	-0.42	0.15	-0.57	24.94	13.99	0
2000	35	1	0.83	13.09	1.9	9.7	3.55	17.97	7.83	6.92	3.8	-0.84	-0.21	-0.62	25.24	13.49	0
2000	35	2	1.73	11.74	10.76	13.35	17.7	16.24	7.91	6.85	4.38	-1.31	-0.62	-0.68	25.57	13.24	0
2000	35	3	357.44	12.97	2.42	15	8.77	16.74	7.87	6.68	4.2	-1.47	-0.78	-0.7	25.76	13.26	0
2000	35	4	3.4	10.55	24.61	10.85	37.29	13.63	7.55	7.42	5.36	-0.93	-0.41	-0.52	25.3	13.14	0
2000	35	5	0.06	14.1	9.28	5.78	8.89	15.2	9.69	9.45	6.13	-1.46	-0.65	-0.81	25.41	13.61	0
2000	35	6	356.64	12.12	5.58	6.53	3.89	14.18	9.23	8.95	5.67	-1.56	-0.72	-0.83	25.56	13.47	0
2000	35	7	6.49	12.97	18.44	11.42	19.79	15.3	10.2	9.5	6.31	-1.39	-0.59	-0.8	25.23	13.51	0
2000	35	8	358.23	10.97	4.14	11.16	4.35	18.15	11.77	11.08	6.48	-1.78	-0.82	-0.96	25.44	13.62	0
2000	35	9	344.93	12.07	351.91	11.7	354.19	22.73	9.27	8.37	4.6	-1.99	-0.98	-1.01	26.13	13.44	0
2000	35	10	339.41	10.86	354.48	11.62	359.41	19.35	5.6	5.65	4.05	-2.04	-1	-1.04	26.91	13.64	0
2000	35	11	336.8	15.22	355.06	15.91	3.62	30.61	4.6	4.52	3.52	-1.99	-1.02	-0.96	27.62	14.23	0
2000	35	12	355.5	15.17	2.3	18.39	14.16	21.22	4.44	4.22	3.32	-2.02	-1.05	-0.97	28.07	14.31	0
2000	35	13	354.89	9.74	0.65	7.58	3.87	15.7	5.24	5.28	4.03	-1.98	-0.95	-1.03	28.01	14.76	0

2000	35	14	354.34	10.36	6.42	8.98	7.46	14.85	4.88	5.41	4.69	-1.89	-0.91	-0.99	28.32	15.57	0
2000	35	15	15.78	14.68	27.54	16.06	25.13	18.32	4.31	4.17	3.32	-1.79	-0.87	-0.91	28.3	15.89	0
2000	35	16	43.86	10.68	49.27	10.36	35.8	12.97	3.06	3.23	2.67	-1.67	-0.83	-0.83	28.64	15.72	0
2000	35	17	2.38	11.09	12.79	11.98	20.33	12.99	3.42	3.59	2.27	-1.3	-0.75	-0.55	28.55	15.07	0
2000	35	18	354.06	10.99	352.4	15.21	13.92	30.17	3.39	3.51	2.14	-0.77	-0.58	-0.19	27.78	14.2	0
2000	35	19	3.5	12.06	17.89	10.4	34.97	11.05	5.59	5.74	4.22	-0.56	-0.35	-0.2	27.11	14.73	0
2000	35	20	0.63	10.56	29.73	8.13	38.79	13.39	5.14	5.9	3.99	-0.64	-0.47	-0.17	26.59	14.18	0
2000	35	21	0.5	9.5	21.47	7.12	32.69	9.24	5.38	6.02	5.21	-0.54	-0.43	-0.11	26.34	14.25	0
2000	35	22	316.9	25.2	23.09	10.7	49.83	18.63	2.5	4.37	3.52	0.08	-0.03	0.11	26.08	13.83	0
2000	35	23	206.34	36.32	81.84	45.83	83.77	28.29	2.03	2.26	2.15	-0.14	-0.2	0.06	26	13.85	0
2000	36	0	314.92	39.27	28.01	20.29	43.28	32.49	2.55	3.63	2.89	-0.31	0.09	-0.4	26.1	14.38	0
2000	36	1	353.03	11.14	27.9	11.3	46.37	33.96	4.51	5.26	3.99	-0.34	-0.1	-0.24	25.86	14	0
2000	36	2	26.2	44.08	29.21	14.18	67.1	20.8	1.63	2.78	2.14	0	-0.05	0.05	25.65	13.57	0
2000	36	3	8.92	14.68	29.7	10.57	46.12	16.79	3.48	5.23	3.41	0.01	0.14	-0.14	25.46	13.4	0
2000	36	4	343.59	16.98	28.28	12.27	58.1	21.08	8.14	7.42	4.77	0.55	0.51	0.04	24.7	12.39	0
2000	36	5	324.95	16.11	7.67	14.9	66.93	39.76	10.55	7.69	3.44	2.35	0.73	1.62	23.54	11.13	0
2000	36	6	309.71	12.94	328.56	18.49	343.24	41.22	15.62	13.3	5.27	-0.87	-0.9	0.03	26.45	10.12	0
2000	36	7	312.52	11.6	325.2	14.54	320.91	27.26	18.71	17.39	8.09	-1.88	-1.08	-0.8	25.66	5.54	0
2000	36	8	319.7	22.8	335.93	24.84	330.9	35.03	13.62	12.77	7.28	-2.02	-1.07	-0.95	25.25	6.4	0
2000	36	9	290.33	18.96	299.89	22.68	299.1	38.23	14.04	12.03	6.04	-2.48	-1.14	-1.33	25.92	6.68	0
2000	36	10	302.29	14.26	313.52	16.59	312.26	30.01	17.08	15.48	7.68	-2.54	-1.11	-1.44	27.22	5.53	0
2000	36	11	292.18	14.26	302.6	17.69	298.33	32.13	15.05	13.7	7.28	-2.7	-1.19	-1.51	28.78	5.59	0
2000	36	12	291.71	16.51	303.85	21.78	291.98	46.08	14.53	12.82	6.02	-2.89	-1.27	-1.62	30.71	6.23	0
2000	36	13	279.04	17.06	286.95	19.76	288.5	34.87	14.38	13.53	6.61	-2.8	-1.19	-1.62	32.04	8.11	0
2000	36	14	266.22	12.28	277.65	15.27	273.88	26.61	17.08	15.47	7.73	-2.63	-1.19	-1.44	32.8	9.58	0
2000	36	15	262.34	12.07	274.31	14.05	273.98	25.65	13.59	12.77	6.52	-2.37	-1.12	-1.26	34.17	9.97	0
2000	36	16	251.34	15.84	260.48	16.49	264.36	29.17	11.83	10.42	5.4	-1.98	-1.06	-0.92	34.5	7.8	0
2000	36	17	231.61	13.13	243.02	13.26	239.81	35.59	5.79	4.74	1.84	-1.11	-0.93	-0.19	33.82	6.32	0
2000	36	18	212.7	7.03	217.87	7.98	202.15	23.41	11.77	10.3	4.31	0.01	-0.7	0.71	32.01	6.9	0
2000	36	19	205.27	11.23	203.35	10.01	183.92	13.54	11.74	10.9	6.47	-0.89	-0.89	0	31.56	7.3	0
2000	36	20	216.52	16.19	214.54	15.93	192.91	18.78	12.01	9.55	5.6	-0.99	-0.84	-0.15	31.2	7.7	0
2000	36	21	198.55	14.18	196.47	12.93	177.46	16.3	11.9	10.7	6.15	-0.89	-0.85	-0.03	30.95	8.7	0
2000	36	22	202.82	16.7	193.76	14.76	173.83	22.53	10.41	9.4	4.84	-0.49	-0.72	0.24	30.49	8.8	0
2000	36	23	220.85	18.38	213.34	19.7	188.62	28.89	9.78	8.32	3.97	-0.67	-0.8	0.13	30.74	9.17	0
2000	37	0	244.43	13.81	248.05	14.96	247.19	29.2	12.28	10.3	5.16	-1.38	-0.91	-0.46	31.54	9.73	0
2000	37	1	250.49	14	253.76	16.67	250.92	32.18	13.19	10.28	4.77	-1.3	-0.92	-0.38	31.5	10.44	0
2000	37	2	253.2	12.42	261.7	15.42	260.22	25.65	15.04	12.67	6.23	-1.53	-0.98	-0.56	31.66	12.04	0
2000	37	3	272.85	12.06	281.71	12.69	281.19	22.51	18.02	15.79	7.7	-1.58	-1.02	-0.56	31.41	12.98	0
2000	37	4	316.41	18.29	329.89	20.08	334.27	27.11	15.64	14.77	7.17	-1.64	-1	-0.63	30.19	14.38	0
2000	37	5	319.28	14.34	333.98	14.91	336.98	25.32	20.1	18.59	8.63	-1.65	-1.03	-0.62	29.08	8.21	0
2000	37	6	314.19	17.02	329.72	16.39	330.12	25.11	15.08	14.05	6.71	-1.68	-1.07	-0.61	28.22	6.01	0
2000	37	7	311.58	16.87	324.95	19.24	324.52	34	19.79	17.24	8	-1.75	-1.08	-0.67	26.94	3.97	0
2000	37	8	314.22	17.21	328.64	18.05	322.57	31.75	17.57	16.34	7.74	-2.14	-1.11	-1.03	26.3	4.78	0
2000	37	9	302.67	15.74	316.09	17.06	318.3	31.15	20.26	18.29	8.67	-2.44	-1.14	-1.3	26.62	5.22	0
2000	37	10	298.32	15.69	311.57	17.67	310.73	30.91	18.05	16.84	8.1	-2.67	-1.17	-1.51	27.87	5.36	0
2000	37	11	295.81	18.42	307.95	20.21	310.59	35.35	14.27	13.08	6.29	-2.72	-1.15	-1.57	29.65	5.63	0
2000	37	12	295.59	18.78	308.56	20.36	309.51	34.98	16.28	15.07	7.35	-2.81	-1.21	-1.61	31.59	5.52	0
2000	37	13	270.36	16.29	279.89	19.35	279.02	32.52	17.38	15.12	7.62	-2.75	-1.19	-1.56	33.06	5.07	0
2000	37	14	269.04	9.65	279.46	13.28	281.08	26.84	20.11	17.95	8.26	-2.54	-1.15	-1.4	34.31	4.86	0

2000	37	15	265.96	11.44	276.69	13.64	276.57	22.9	18.09	16.38	7.9	-2.34	-1.1	-1.24	34.98	5.01	0
2000	37	16	260.07	10.84	270.9	12.49	270.22	24.17	14.44	12.81	6.36	-1.93	-1.07	-0.85	35.15	4.72	0
2000	37	17	244.42	18.56	248.14	17.65	243.72	35.42	8.16	6.78	3.14	-1.43	-0.96	-0.47	34.36	3.81	0
2000	37	18	263.86	13.14	266.14	18.8	242.9	35.8	6.63	5.11	2.4	-0.62	-0.88	0.26	33.15	3.47	0
2000	37	19	223.01	10.77	228.39	12.21	196.89	22.82	6.39	5.41	2.66	1.63	-0.61	2.24	30.24	5.55	0
2000	37	20	204.1	5.51	222.3	8.62	190.71	25.7	10.48	8.94	3.38	2.23	0.52	1.71	28.7	5.12	0
2000	37	21	206.37	4.59	206.25	4.81	159.04	13.23	13.29	11.13	3.49	2.12	0.74	1.38	27.54	5.4	0
2000	37	22	191.11	4.6	188.28	6.07	162.94	15.54	12.7	9.49	3.35	1.3	-0.23	1.54	27.52	6.8	0
2000	37	23	174.89	5.07	180.59	4.92	181.96	10.61	11.89	11.41	4.9	0.4	-0.74	1.14	27.87	9.13	0
2000	38	0	182.89	3.93	184.7	4.71	178.55	11.8	12.73	10.65	4.52	-0.08	-0.59	0.51	27.77	8.55	0
2000	38	1	178.32	4.64	182.21	5.79	178.05	12.38	15.5	13.85	7.24	-0.93	-0.8	-0.13	29.12	9.9	0
2000	38	2	178.98	6.92	182.92	7.28	176	12.4	15.95	14.1	7.76	-1.39	-0.91	-0.48	30.2	10.17	0
2000	38	3	184.46	6.34	187.51	6.74	180.58	12.2	15.82	13.64	8.05	-1.3	-0.86	-0.44	30.56	10.2	0
2000	38	4	184.81	3.92	188.67	4.98	181.06	12.04	14.76	12.72	6.78	-1.08	-0.76	-0.32	30.79	10.5	0
2000	38	5	186.54	5.5	181.84	4.65	171.73	13.73	13.05	11.64	5.22	-0.43	-0.17	-0.26	30.77	10.73	0
2000	38	6	196.86	9.75	182.64	8.1	182.85	24.54	10.55	8.77	2.85	0.88	0.49	0.39	30.49	11.21	0
2000	38	7	206.94	9.87	204.72	9.19	200.98	24.58	11.61	10.78	5.02	0.51	-0.47	0.98	31.77	11.15	0
2000	38	8	234.49	10.95	235.59	12.1	227.53	28.16	13.24	11.27	4.69	-1.16	-0.8	-0.36	33.73	11.76	0
2000	38	9	253.94	17.44	259.83	17.67	261.14	32.65	13.79	12.16	6.15	-2.21	-1.04	-1.17	36.11	13.46	0
2000	38	10	273.74	24.74	280.81	29.14	285.87	47.32	13.82	12.44	6.49	-2.4	-1.15	-1.25	36.71	14.75	0
2000	38	11	280.41	13.99	291.96	16.17	291.53	29.1	18.66	16.92	8.08	-2.54	-1.13	-1.41	38.11	16.59	0
2000	38	12	277.87	15.22	288.25	17.77	286.14	30.46	20.33	18.32	8.77	-2.6	-1.14	-1.46	38.99	17.01	0
2000	38	13	267.44	10.65	278.48	14.7	280.93	29.2	23.52	20.3	9.62	-2.4	-1.08	-1.32	40.26	16.44	0
2000	38	14	271.5	12.52	281.84	15.82	280.07	29.22	21.55	19.67	9.28	-2.26	-1.06	-1.2	40.29	16.28	0
2000	38	15	283.68	13.14	295.16	16.4	296.06	31.82	16.56	15.14	6.75	-2.4	-1.15	-1.25	40.38	17.91	0
2000	38	16	294.2	10.73	305.82	13.38	304.84	26.33	21.2	18.93	8.23	-2.11	-1.13	-0.98	39.68	17.94	0
2000	38	17	293.67	11.03	304.04	14.51	305.14	28.28	17.85	15.02	6.62	-1.79	-1.13	-0.66	36.84	17.34	0
2000	38	18	303.37	12.4	316.23	14.46	319.6	25.72	17.95	15.64	7.18	-1.73	-1.1	-0.63	36	14.24	0
2000	38	19	302.75	13.91	315.61	15.25	318.68	28.81	18.82	16.79	7.61	-1.76	-1.1	-0.65	34.21	8.94	0
2000	38	20	321.26	15.79	335.62	17.6	336.86	26.09	16.58	14.92	7.23	-1.65	-1.05	-0.61	32.4	8.15	0
2000	38	21	319	11.42	331.56	12.61	329.21	21.83	18.58	17.65	7.79	-1.75	-1.07	-0.68	30.69	8.66	0
2000	38	22	325.06	10.23	337.46	12.48	333.06	22.41	21.42	20.58	9.2	-1.77	-1.05	-0.73	28.68	6.06	0
2000	38	23	319.8	7.24	331.56	8.74	330.32	21.23	23.96	22.94	8.74	-1.79	-1.05	-0.74	27.06	4.16	0
2000	39	0	322	10.13	334.48	11.41	334.68	22.35	20.98	19.57	8.14	-1.73	-1.03	-0.69	25.92	2.52	0
2000	39	1	335.6	5.79	347.44	9.44	343.81	21.82	16.12	15.32	6.52	-1.69	-1.04	-0.65	24.74	1.67	0
2000	39	2	346.88	5.48	355.82	9.4	2.57	20.48	14.01	13.17	6.62	-1.77	-1.05	-0.71	23.05	0.25	0
2000	39	3	357.39	11.45	10.83	11.09	20.72	17.8	11.46	10.52	5.84	-1.45	-0.92	-0.53	20.91	-3.15	0
2000	39	4	5.68	12.13	24.36	11.42	31.61	14.06	10.21	9.93	6.13	-1.24	-0.85	-0.39	19.43	-5.95	0
2000	39	5	0.97	14.07	12.16	11.48	14.27	16.76	13.53	11.61	7.35	-1.81	-1.09	-0.73	18.81	-7.09	0
2000	39	6	352.56	10.01	3.07	10.88	3.28	17.24	12.96	12.02	6.65	-1.78	-1.07	-0.72	17.94	-7.4	0
2000	39	7	10.37	12.62	40.62	11.71	53.91	18.08	7.75	7.24	4.54	-1.29	-0.77	-0.52	16.34	-8.37	0
2000	39	8	13.33	16.51	37.47	12.78	32.97	19.42	6.15	5.92	4.57	-1.92	-1.01	-0.91	16.81	-6.84	0
2000	39	9	8.34	15.06	24.76	15.85	26.1	20.59	7.45	7.19	5.49	-2.26	-1.14	-1.12	18.24	-5.78	0
2000	39	10	358.07	13.96	1.39	13.24	359.66	23.94	7.23	6.88	5.1	-2.47	-1.18	-1.29	19.74	-4.39	0
2000	39	11	349.12	18.43	353.42	25.52	5.81	51.93	4.86	4.35	3.78	-2.28	-1.16	-1.12	21.46	-3.65	0
2000	39	12	343.44	43.12	350.52	33.41	352.02	51.88	4.22	4.45	3.46	-2.34	-1.13	-1.21	24.02	-3.04	0
2000	39	13	25.56	28.33	47.03	35.05	39.45	44.05	4.44	4.32	3.82	-2.32	-1.19	-1.13	25.89	-2.89	0
2000	39	14	225.8	53.97	244.8	42.66	243.81	50.86	3.24	3.59	2.91	-2.26	-1.1	-1.16	28.04	-0.1	0
2000	39	15	145.07	10.67	157.78	12.27	167.41	17.6	6	5.64	4.86	-2.63	-1.24	-1.39	28.87	0.6	0

2000	39	16	146.05	6.84	152.15	10.04	154.12	21.6	8.83	7.35	3.97	-2.2	-0.99	-1.21	29.31	0.3	0
2000	39	17	152.14	4.62	154.83	6.25	150.97	15.67	9.91	8.42	3.74	-0.85	-0.61	-0.24	28.13	1.26	0
2000	39	18	168.52	4.58	175.86	7.28	171.83	13.35	13.44	10.04	4.61	-0.35	-0.64	0.29	28.16	1.63	0
2000	39	19	178.36	4.59	191.42	7.04	188.94	12.96	16.44	13.5	7.45	-0.92	-0.79	-0.13	27.74	1.69	0
2000	39	20	185.25	4.24	198.88	5.59	192.96	12.56	14.87	12.15	6.45	-1	-0.78	-0.22	25.74	3.45	0
2000	39	21	187.19	3.76	203.89	4.89	198.22	15.39	14.81	12.07	5.25	-0.52	-0.62	0.1	24.71	4.53	0
2000	39	22	197.78	3.06	209.79	4.43	179.17	12.29	11.48	9.32	3.69	-0.01	-0.59	0.59	23.54	3.76	0
2000	39	23	184.66	5.44	192.18	4.97	185.23	11.63	14.15	12.23	6.22	-0.16	-0.75	0.59	23.15	4.16	0
2000	40	0	186.45	3.88	201.6	4.96	210.16	13.91	10.48	8.75	3.61	-0.04	-0.7	0.66	22.11	4.04	0
2000	40	1	200.6	2.89	210.57	3.81	191.37	13.07	13.49	10.17	4.8	-0.07	-0.48	0.41	21.08	3.72	0
2000	40	2	189.67	4.26	188.8	4.74	169.58	9.69	13.96	10.9	4.36	0.18	-0.63	0.81	20.6	3.88	0
2000	40	3	183.57	5.1	187.37	4.23	179.28	10.57	11.48	10.12	4.58	-0.26	-0.91	0.65	21.02	4.86	0
2000	40	4	178.78	7.24	182.09	5.16	192.58	13.32	8.93	7.17	2.75	0.13	-0.73	0.86	20.74	5.38	0
2000	40	5	177.43	5.25	192.25	10.85	213.31	26.57	9.89	6.88	2.45	0.68	-0.13	0.81	20.32	5.48	0
2000	40	6	175.49	6.66	185.09	10.2	225.46	18.77	11.26	7.12	2.54	1.35	0.27	1.08	19.91	5.28	0
2000	40	7	177.27	5.09	186.89	5.28	223.58	19.99	10.05	7.89	2.65	0.84	-0.04	0.88	20.55	6.2	0
2000	40	8	167.04	6.27	181.67	8.3	187.77	13.33	9.19	7.5	4.27	-0.85	-0.11	-0.75	23.05	9	0
2000	40	9	171.26	6.39	175.15	8.04	171.29	13.15	13.81	11.25	7.34	-2.48	-0.94	-1.54	27.75	12.55	0
2000	40	10	179.35	8.77	179.84	10.36	172.02	15.37	16.91	13.64	8.49	-2.42	-0.85	-1.57	33.05	16.43	0
2000	40	11	186.88	7.12	192.98	9.56	185.66	13.89	16.92	14.7	9.81	-2.51	-1.08	-1.43	36.82	18.35	0
2000	40	12	190.66	5.79	198.27	9.01	186.57	13.8	19.2	16.38	10.71	-2.49	-1.1	-1.39	39.26	19.76	0
2000	40	13	188.59	6.25	193.33	8.64	183.76	12.81	17.44	15.49	10.77	-2.72	-1.11	-1.61	41.71	21.36	0
2000	40	14	181.99	4.24	186.56	7.06	177.27	12.98	18.44	16.14	10.03	-2.56	-1.01	-1.55	43.42	22.35	0
2000	40	15	182.15	6.62	187.87	9.07	179.79	13.07	17.52	15.02	9.09	-2.18	-0.91	-1.27	44.1	23.06	0
2000	40	16	189.36	7.21	195.22	8.09	183.17	13.57	15.65	13.57	7.69	-1.33	-0.77	-0.56	44.33	22.93	0
2000	40	17	190.44	5.84	192.36	6.9	174.35	10.9	12.3	11.36	5.31	0.26	-0.75	1.02	42.87	21.98	0
2000	40	18	187.27	2.66	189.42	2.61	171.75	8.5	12.75	12.04	4.55	0.7	-0.75	1.45	41.95	21.82	0
2000	40	19	185.17	3.76	190.41	4.92	216.52	34.09	12.05	9.54	2.56	0.88	-0.58	1.47	41.24	21.91	0
2000	40	20	176.84	6.1	186.47	17.43	310.16	38.45	8.86	4.61	1.89	1.8	0.73	1.07	39.46	21.35	0
2000	40	21	183.08	5.57	175.19	7.66	246.24	20.78	8.46	5.28	2.03	2.1	1.67	0.43	38.15	21.34	0
2000	40	22	225.33	7.93	222.91	10.05	353.32	39.4	8.57	5.28	2.05	5.16	1.1	4.06	35.8	21.25	0
2000	40	23	232.8	6.66	281.95	44.2	10.87	42.73	9.84	3.61	1.85	8.72	4.07	4.64	33.19	19.69	0
2000	41	0	164	24.95	118.8	22.41	349.68	48.71	4.1	2.78	2.72	7.09	1.9	5.19	32.03	18.96	0
2000	41	1	42.22	48.93	29.7	16.65	24.47	34.72	1.99	5.28	4.79	7.36	1.47	5.89	32.01	18.83	0
2000	41	2	214.16	17.72	303.88	50.69	332.75	41.1	4.91	2.23	2.09	8.47	3.53	4.93	31.18	18.2	0
2000	41	3	204.89	10.31	273.5	27.41	16.3	22.33	5.66	3.35	2.66	8.15	3.2	4.96	30.45	17.85	0
2000	41	4	301.45	22.33	6.32	9.18	44.57	17.09	5.24	5.72	5.99	9.4	2.34	7.06	29.36	17.05	0
2000	41	5	345.29	11.35	18.63	5.7	49.85	49.49	5.17	8.05	5.16	8.31	3.54	4.78	29.32	16.61	0
2000	41	6	18.17	6.85	18.1	5.98	25.78	31.58	6.24	6.68	3.41	7.44	5.48	1.96	28.91	16.05	0
2000	41	7	1.29	10.35	18.34	6.1	28.95	9.69	6.77	8.22	6.74	7.89	4.22	3.68	28.81	16.88	0
2000	41	8	357.01	10.48	14	12.24	40.79	14.76	7.47	4.21	4.36	6.42	4.03	2.39	30.19	17.85	0
2000	41	9	1.55	9.57	42.3	26.71	28.1	22.3	7.6	2.91	2.03	4.26	3.49	0.76	33.34	20.26	0
2000	41	10	7.5	16.88	17.31	23.06	35.13	31.66	5.18	3.49	2.35	-0.77	-0.52	-0.26	39.39	23.15	0
2000	41	11	340.76	12.66	341.68	12.7	350.32	20.88	5.07	4.99	3.02	-1.5	-0.81	-0.69	42.51	24.12	0
2000	41	12	252.11	48.93	296.36	41.27	299.92	48.93	3.15	3.19	2.99	-2.07	-1.06	-1.01	44.85	25.08	0
2000	41	13	206.62	17.41	242.32	21.73	250.7	18.67	4.11	4.23	3.7	-1.94	-0.62	-1.33	45.79	24.88	0
2000	41	14	176.04	15.34	192.15	13.3	198.68	23.27	5.2	5.03	3.58	-2.2	-1.04	-1.16	47.24	25.44	0
2000	41	15	162.04	5.94	172.5	8.9	173.38	14.81	8.08	7.63	5.33	-1.88	-0.93	-0.95	47.25	25.33	0
2000	41	16	157.34	3.95	167.46	5.83	167.84	12.33	8.46	7.78	3.98	-0.64	-0.34	-0.3	45.59	24.21	0

2000	41	17	138.18	4.2	156.96	7	179.7	18.32	9.53	6.76	3.02	0.81	0.09	0.72	43.45	23.27	0
2000	41	18	135.99	8.04	160.01	9.59	206.55	28.72	6.12	4.7	2.28	0.68	-0.74	1.42	42.09	23.19	0
2000	41	19	150.49	6.07	171.31	5.88	191.96	16.29	5.81	6.33	2.78	0.37	-0.49	0.86	41.34	23	0
2000	41	20	155.35	3.53	166	5.3	157.3	19.17	7.94	6.16	2.22	0.44	-0.1	0.54	40.03	22.51	0
2000	41	21	147.87	6.68	168.52	18.85	319.75	35.36	6.45	3.4	1.73	-0.08	-0.19	0.11	39.63	22.53	0
2000	41	22	132.62	12.49	150.09	21.87	205.7	64.89	6.78	3.77	1.49	-0.56	-0.66	0.09	39.46	22.23	0
2000	41	23	131.82	10.93	146.58	19.41	160.7	27.68	6.65	4.97	1.92	-1.15	-0.87	-0.28	38.87	22.9	0
2000	42	0	135.57	15.02	158.58	25.57	197.66	52.13	4.28	2.89	1.35	-1.3	-0.83	-0.46	38.53	23.67	0
2000	42	1	144.96	9.69	178.14	23.27	194.03	55.05	4.46	3.07	1.64	-0.96	-0.51	-0.44	37.99	24.31	0
2000	42	2	136.87	5.44	145.87	11.29	188.74	36.59	3.66	2.35	1.14	-0.89	-0.4	-0.5	37.71	25.09	0
2000	42	3	156.44	10.73	183.51	13.52	193.05	37.1	4.87	4.45	2.04	-0.55	-0.1	-0.45	37.3	25.31	0
2000	42	4	156.47	4.8	170.14	6.59	177.16	20.98	7.02	6.01	2.34	-0.14	0.11	-0.26	36.55	25.45	0
2000	42	5	160.06	3.54	178.86	5.96	197.06	15.62	6.21	5.98	2.28	0.02	0.44	-0.42	36.13	25.43	0
2000	42	6	174.32	5.25	196.68	7.7	166.01	30.78	7.12	5.77	1.89	-0.04	0.28	-0.32	36.25	25.71	0
2000	42	7	175.6	6.33	201.59	10.33	145.2	19.24	5.45	3.92	1.49	0.11	0.68	-0.57	36.26	25.93	0
2000	42	8	221.93	22.02	247.78	10.68	190.41	54.74	3.22	3.07	1.23	-0.2	0.81	-1	36.7	26.79	0
2000	42	9	197.83	16.05	213.32	22.75	138.08	32.75	2.76	2.16	1.35	-0.02	1.22	-1.25	36.67	26.57	0
2000	42	10	242.87	10.87	249.48	21.01	78.61	45.84	3.85	2.52	1.06	2.3	3.59	-1.29	33.06	25.03	0
2000	42	11	186.45	10.76	186.89	21.37	248.23	35.26	4.74	2.86	1.58	0.56	1.66	-1.1	36.94	27.64	0
2000	42	12	158.5	36.01	132.64	46.11	3.74	40.75	2.51	2.27	1.78	0.62	1.56	-0.94	38.75	30.21	0
2000	42	13	135.92	18.65	199.87	42.61	254.56	23.28	2.26	2.2	2.47	0.38	0.6	-0.22	39.41	30.44	0
2000	42	14	126.14	15.83	187.87	16.22	215.1	26.74	2.99	3.15	2.87	0.67	1.38	-0.71	39.79	30.36	0
2000	42	15	279.88	30.08	231.17	55.39	214.4	51.4	8.83	4.88	2.08	2.44	1.27	1.17	41.13	30.84	0
2000	42	16	300.75	10.43	312.6	12.62	308.7	26.72	17.87	16.65	7.11	-1.62	-1.1	-0.51	45.22	30.05	0
2000	42	17	290.39	9.12	302.08	11.14	300.73	25.54	21.29	18.92	8.5	-1.91	-1.15	-0.75	41.55	25.46	0
2000	42	18	294.37	7.1	305.84	9.98	309.52	24.24	27.13	24.13	10.1	-2.07	-1.16	-0.91	38.18	21.95	0
2000	42	19	312.11	11.98	323.94	12.77	320.04	24.31	22.64	21.5	9.8	-1.91	-1.08	-0.83	36.38	18.33	0
2000	42	20	307.54	11.76	321.25	14.68	321.91	23.33	24.02	22.12	9.55	-1.93	-1.1	-0.82	34.02	15.78	0
2000	42	21	313.74	10.77	325.06	14.63	326.75	22.27	20.18	18.62	8.48	-1.96	-1.13	-0.82	31.96	13.72	0
2000	42	22	328.71	20.7	342.51	22.63	348.16	35.22	15.17	14.52	7.71	-1.8	-1.06	-0.73	30.3	10.62	0
2000	42	23	306.09	36.91	308.03	36.43	306.76	54.18	16.23	15.05	6.77	-1.86	-1.12	-0.73	29.5	8.18	0
2000	43	0	296.56	15.86	307.47	16.71	305.62	28.08	14.7	12.85	6.47	-1.89	-1.15	-0.75	28.72	7.88	0
2000	43	1	287.51	10.16	298.12	12.41	292.67	23.11	16.7	14.88	7.22	-1.96	-1.19	-0.77	27.34	7.43	0
2000	43	2	293.13	6.61	302.82	13.15	293.77	53.59	20.74	16.42	5.76	-2.21	-1.36	-0.84	26.56	7.83	0
2000	43	3	291.51	8.69	300.08	17.13	305.24	69.85	16.36	11.57	3.84	-2.04	-1.37	-0.67	25.19	6.41	0
2000	43	4	305.84	14.82	318.7	18.46	329.5	47.52	12.35	10.55	4.13	-1.88	-1.19	-0.69	24.2	4.77	0
2000	43	5	307.16	8.34	321.31	9.72	323.76	21.83	17.58	16.36	6.96	-1.9	-0.99	-0.91	22.99	4.3	0
2000	43	6	326.21	11.6	337.34	14.23	343.27	30.85	11.54	10.54	4.81	-1.68	-0.97	-0.7	22.34	3.32	0
2000	43	7	341.49	8.41	350.96	10.28	351.84	23.67	13.86	13.32	6.21	-1.96	-1.08	-0.88	22.45	4.15	0
2000	43	8	338.73	8.45	347.79	11.04	339.27	23.51	13	12.48	6.09	-2.42	-1.13	-1.29	22.64	4.76	0
2000	43	9	344.99	12.24	356.84	12.25	355.44	22.08	10.7	10.47	6.14	-2.63	-1.15	-1.48	23.64	4.94	0
2000	43	10	1.24	13.85	7.38	12.07	8.26	17.97	10.58	9.85	6.67	-2.72	-1.27	-1.45	24.73	3.78	0
2000	43	11	340.95	11.1	349.84	13.3	346.56	24.54	9.01	8.93	5.42	-3	-1.25	-1.76	25.86	2.1	0
2000	43	12	335.42	8.08	344.04	10.29	340.05	27.7	9.83	9.98	5.5	-3.22	-1.24	-1.98	27.52	1.07	0
2000	43	13	332.34	10.89	342.29	14.33	345.4	24.77	7.47	7.23	4.71	-2.83	-1.26	-1.58	28.49	0.6	0
2000	43	14	336.41	8.67	345.88	11.29	341.23	21.25	7.41	7.63	4.81	-2.9	-1.22	-1.67	29.54	1.82	0
2000	43	15	319.09	13.61	330.74	14.2	335.94	26.58	6.13	6.38	4.11	-2.59	-1.17	-1.42	30.21	2.54	0
2000	43	16	330.77	11.19	336.72	9.24	337.39	20.53	8.01	8.24	4.24	-2.39	-1.1	-1.29	30.34	1.84	0
2000	43	17	348.53	12.04	354.95	13.2	357.74	24.19	7.05	6.65	3.56	-1.81	-1.02	-0.78	29.83	0.51	0

2000	43	18	357.3	9.64	0.89	8.56	6.63	17.75	7.43	6.98	3.75	-1.41	-0.89	-0.52	29.1	1.2	0
2000	43	19	10.35	8.38	24.53	8.22	33.73	14.97	7.69	6.76	4.16	-0.4	-0.55	0.15	27.23	1.48	0
2000	43	20	20.27	5.15	28.01	5.06	34.07	13.28	8.78	7.99	4.98	0.08	-0.53	0.6	25.5	0.44	0
2000	43	21	13.69	6.98	18.03	5.33	29.8	11.49	8.69	7.65	5.29	0.76	-0.28	1.03	23.94	1.03	0
2000	43	22	354.46	9.54	3.58	8.14	32.91	9.63	8.22	6.91	5.07	2.05	-0.19	2.24	22.74	2.36	0
2000	43	23	333.23	13.92	14.7	6.38	41.53	11.34	4.41	5.86	5.14	3.02	0.87	2.15	21.24	1.33	0
2000	44	0	325.87	15.88	13.98	7.72	40.94	16.81	3	5.12	4.44	3.3	1.61	1.68	19.94	1.1	0
2000	44	1	0.57	13.36	20.67	6.64	39.16	11.49	2.94	6.15	5.69	3.49	2.11	1.38	19.09	0.66	0
2000	44	2	271.02	29.5	20.29	16.69	44.1	15.96	3.26	4.26	3.67	2.19	1.33	0.85	18.48	0.56	0
2000	44	3	346.38	31.08	15.77	6.11	38.18	10.78	2.13	6.07	5.44	3.76	2.55	1.21	17.81	0.6	0
2000	44	4	342.89	18.07	24.66	6.38	41.74	12.07	4.6	9.33	6.6	4.49	3.77	0.72	17.38	0.47	0
2000	44	5	311.74	25.26	22.69	9.6	70.87	28.25	2.86	4.96	3.11	1.54	0.55	0.99	17.53	0.91	0
2000	44	6	244.86	76.43	19.3	9.37	42.18	13.39	1.13	4.5	3.97	1.07	0.18	0.89	16.81	-0.06	0
2000	44	7	79.63	49.8	20.62	8.34	38.5	12.64	1.35	5.22	5	1.74	1.19	0.56	16.81	0.12	0
2000	44	8	11.47	12.58	19.43	8.95	35.8	13.97	3.26	4.79	4.09	1.81	2.26	-0.45	17.99	0.24	0
2000	44	9	353.15	48.04	40.86	21.1	40.57	17.94	1.78	2.86	2.89	-0.3	0.32	-0.63	21.17	0.39	0
2000	44	10	155.4	33.05	253.09	48.7	278.93	51.22	2.32	2.27	2.16	-1.54	-0.64	-0.9	24.94	1.93	0
2000	44	11	168.62	14.81	193.24	20.95	202.37	32.69	5.03	4.57	3.8	-2.1	-0.93	-1.17	28.64	6.64	0
2000	44	12	167.99	13.96	189.63	16.93	192.8	22.96	6.26	5.99	4.82	-2.27	-1	-1.26	31.61	10.38	0
2000	44	13	151.24	9.35	163.38	11.75	166.19	17.73	7.87	7.06	5.27	-2.52	-1.18	-1.34	34.39	13.65	0
2000	44	14	145.75	7.09	154.73	9.58	155.71	20.06	9.85	8.16	4.63	-2.11	-1.01	-1.09	35.67	15.35	0
2000	44	15	145.02	4.51	154.18	7.64	156.95	16.62	12.38	9.52	5.13	-1.7	-0.88	-0.82	35.81	17.29	0
2000	44	16	148.56	5.18	159.77	8.16	162.11	14.95	10.95	9.79	5.76	-1.73	-0.95	-0.78	35.59	17.86	0
2000	44	17	143.91	4.6	157.43	7.9	161.09	16.41	11.06	8.2	4.5	-1.44	-0.78	-0.66	34.89	18.15	0
2000	44	18	147.38	6.32	166.21	10.56	177.71	18.41	8.45	6.06	3.34	-1.33	-0.67	-0.66	34.56	18.76	0
2000	44	19	140.38	5.09	153.27	7.75	164.43	18.23	8.68	5.84	2.48	-1.16	-0.74	-0.41	34.66	19.33	0
2000	44	20	151.48	10.51	170.24	16.03	188.49	45.76	5.05	3.88	2.14	-1.49	-0.71	-0.78	34.08	21.02	0
2000	44	21	41.4	22.91	109.94	39.43	319.22	51.25	2.05	1.89	1.64	-0.36	0.3	-0.66	32.95	22.33	0.01
2000	44	22	101.53	20.44	8.59	19.08	355.83	15.61	2.7	2.93	2.86	0.77	1.2	-0.43	32.85	22.86	0.01
2000	44	23	143.99	24.58	2.85	51.45	3.67	35.23	2.82	2.09	1.89	1.12	0.82	0.3	33.29	23.16	0.04
2000	45	0	263.73	58.45	336.79	31.76	42.85	25.94	2.7	3.16	2.87	1.49	0.83	0.66	34.21	24.11	0.09
2000	45	1	47.49	14.09	31.34	10.23	31.05	11.36	4.3	5.82	3.92	1.77	1.2	0.58	34.42	24.73	0.06
2000	45	2	53.55	41.22	7.33	10.56	52.25	37.97	2.64	3.49	1.79	1.83	1.31	0.52	34.79	24.92	0.04
2000	45	3	5.99	20.5	10.16	11.45	28.67	23.36	6.1	6.27	3.61	2.7	1.26	1.44	34.83	25.25	0.15
2000	45	4	16.23	20.94	3.65	9.76	43.27	52.22	3.99	4.02	2.13	3.05	2.24	0.81	34.45	24.72	0.01
2000	45	5	71.95	65.71	341.42	25.36	2.02	52.63	2.31	2.86	1.59	2.48	0.96	1.51	31.01	19.09	0.01
2000	45	6	41.13	25.6	7.92	13.64	42.18	37.97	3.47	4.42	2.74	4.6	2.7	1.91	28.9	18.63	0
2000	45	7	42.16	25.31	7.23	7.96	48.34	51.84	3.11	4.53	2.3	5.95	4.38	1.57	27.76	19.47	0.01
2000	45	8	55.01	27.3	12.4	16.89	28.77	42.39	4.97	4.94	2.82	4.98	2.06	2.92	25.59	14.38	0.21
2000	45	9	157.15	17.32	163.71	28.86	316.34	36.01	10.3	5.8	3.07	2.19	-0.12	2.31	23.87	9.22	0.07
2000	45	10	190.99	6.25	190.99	11.22	169.66	20.01	22.38	17.37	7.73	3.15	0.52	2.63	31.85	21.88	0
2000	45	11	203.34	7.49	208.68	9.97	190.64	17.36	21.92	18.14	9.73	0.2	-0.23	0.43	47.52	37.92	0
2000	45	12	224.7	10.31	235.01	13.01	223.28	34.15	21.38	19.26	8.54	-1.35	-0.82	-0.54	47.8	33.99	0
2000	45	13	215.98	19.79	221.82	23.86	204.63	35.63	13.68	11.67	7.04	-2.33	-1.13	-1.2	47.71	32.53	0
2000	45	14	223.36	11.86	230.28	12.21	216.85	30.35	13.09	12.49	5.21	-2.07	-0.98	-1.09	47.13	32.11	0
2000	45	15	201.39	8.75	205.99	9.46	190.51	16.35	10.15	9.26	5.95	-2.27	-1.04	-1.23	47.19	32.25	0
2000	45	16	182.49	7.73	184.1	10.73	174.43	14.61	10.78	9.08	4.6	-0.98	-0.59	-0.39	46.28	31.68	0
2000	45	17	196.6	7.32	195.43	8.9	163.35	11.58	11.75	9.79	2.91	0.64	-0.44	1.09	44.86	31.02	0
2000	45	18	201.65	5.25	202.23	5.39	178.09	12.23	14.11	12.6	5.36	0.25	-0.44	0.69	44.82	31.65	0

2000	45	19	205.8	6.15	200.44	6.38	173.43	13.62	14.26	12.67	5.34	0.28	-0.24	0.52	44.57	31.63	0
2000	45	20	224.44	15.54	211.66	14.68	164.4	27.87	7.72	6.76	2.42	0.09	-0.63	0.72	44.13	31.32	0
2000	45	21	279.39	17.37	287.93	17.54	300.64	44.08	13.08	10.67	4.92	-1.09	-0.93	-0.15	44.18	30.17	0
2000	45	22	298.63	20.27	307.67	23.39	308.92	43.22	13.13	11.36	5.38	-1.6	-1.01	-0.58	43.14	27.97	0
2000	45	23	289.81	22.95	300.45	26.91	294.67	42.42	13.19	12.03	6.31	-1.75	-1.07	-0.68	40.33	23.3	0
2000	46	0	282.74	12.07	292.53	15.41	291.79	32	19.58	16.82	7.44	-1.81	-1.09	-0.72	35.98	18.72	0
2000	46	1	312.44	23.04	325.62	25.77	339.54	39.18	18.41	15.27	6.95	-1.88	-1.07	-0.81	34.54	16.74	0
2000	46	2	308.26	11.62	320.5	12.31	318.68	29.7	20.57	19.34	7.9	-1.92	-1.09	-0.83	33.93	15.06	0
2000	46	3	314.4	12.05	328.73	13.25	324.69	25.97	22.07	20.99	9.06	-1.82	-1.06	-0.76	33.2	14.65	0
2000	46	4	311.92	9.37	323.33	10.9	318.26	23.73	25.93	24.06	10.21	-1.8	-1.05	-0.75	33.01	14.54	0
2000	46	5	317.93	12.18	329.85	14.97	325.55	29.4	21.49	19.71	8.94	-1.74	-1.04	-0.71	33.02	13.89	0
2000	46	6	308.02	13.97	316.51	17.03	315.43	32.01	16.19	14.43	6.28	-1.82	-1.12	-0.7	32.95	13.91	0
2000	46	7	303.79	13.76	313.24	16.09	314.28	32.07	17.81	15.86	6.92	-1.85	-1.1	-0.74	33.1	13.68	0
2000	46	8	309.41	12.92	319.93	15.29	315.65	29.6	20.36	18.35	7.54	-2.29	-1.12	-1.16	33.61	14.31	0
2000	46	9	311.76	15.35	324.87	17.67	323.68	34.02	20.18	18.25	8.29	-2.43	-1.12	-1.31	34.42	14.15	0
2000	46	10	309.06	15.47	319.1	18.06	320.51	31.62	17.55	16.45	8.19	-2.7	-1.15	-1.55	35.5	13.65	0
2000	46	11	315.13	15.94	328.28	17.8	328.05	31.32	17.73	16.9	7.65	-2.78	-1.15	-1.63	36.28	12.73	0
2000	46	12	306.84	13.77	319.1	17.27	318.75	29.88	16.08	15.13	7	-2.98	-1.17	-1.81	37.48	12.14	0
2000	46	13	303.1	12.11	314.26	15.61	313.28	34.44	17.67	15.82	6.65	-3.07	-1.25	-1.83	38.48	11.91	0
2000	46	14	300.19	10.26	311.43	14.66	307.53	33.17	17.6	15.69	7.29	-2.87	-1.2	-1.67	39.33	12.44	0
2000	46	15	295.57	17.39	306.44	20.24	302.13	35.89	12.9	11.68	5.67	-2.68	-1.15	-1.52	39.62	13.36	0
2000	46	16	282.85	17.87	292.14	20.08	290.06	31.3	11.87	11.56	5.95	-2.21	-1.07	-1.14	38.53	13.04	0
2000	46	17	292.33	15.06	304.21	16.93	298.63	35.96	9.81	8.55	3.95	-1.68	-1.11	-0.57	37.28	12.07	0
2000	46	18	293.38	22.84	308.83	29.84	302.05	68.7	9.96	8.07	3.44	-1.47	-1.03	-0.43	36.22	11.48	0
2000	46	19	291.14	23.56	305.33	31.95	272.93	66.77	7.35	6.22	2.96	-1.3	-0.98	-0.32	35.18	10.57	0
2000	46	20	353.42	42.25	3.71	40.76	123.38	56.56	7.55	5.98	3.48	-0.73	-0.78	0.05	33.8	10.93	0
2000	46	21	357.8	50.74	33.18	59.16	65.93	50.45	4.53	4.01	2.84	-1.13	-0.89	-0.24	33.98	10.57	0
2000	46	22	221.75	30.57	192.36	48.27	166.77	26.06	4.37	4.29	2.49	0.07	-0.55	0.62	31.79	10.85	0
2000	46	23	207.87	16.68	219.58	26.69	263.43	55.79	4.07	2.57	1.8	0.79	-0.05	0.84	30.17	11.63	0
2000	47	0	205.34	9.93	225.54	41.23	57.1	45.65	6.18	2.92	1.6	1.89	0.37	1.52	28.69	12.2	0
2000	47	1	205.28	7.8	221.38	45.43	31.02	55.4	5.96	2.81	1.91	2.03	0.45	1.58	28.24	12.01	0
2000	47	2	175.78	15.01	175.39	36.95	40.16	50.96	4.78	2.98	2.14	2.23	0.56	1.66	27.8	11.96	0
2000	47	3	147.7	10.93	347.38	45.81	5.82	16.36	3.14	2.07	2.68	0.63	0.21	0.42	28.42	12.56	0
2000	47	4	141.78	17.86	164.02	23.33	206.37	27.97	4.07	2.64	1.93	0.1	-0.1	0.2	28.91	12.6	0
2000	47	5	184.65	10.75	213.79	8.07	145.32	37.56	5.87	4.47	1.84	-0.31	-0.41	0.1	28.97	13.17	0
2000	47	6	169	3.55	186.49	6.85	173.24	11.51	12.33	7.95	3.42	0.11	0.03	0.08	29.7	14.44	0
2000	47	7	174.41	8.28	184.13	10.63	182.26	15.52	14.21	11.1	6.14	-1.09	-0.61	-0.48	31.95	15.1	0
2000	47	8	164.88	4.43	174.14	7.15	171.8	12.84	16.18	14.3	8.13	-1.48	-0.81	-0.67	33.45	15.72	0
2000	47	9	168.76	4.69	180.15	6.72	179.33	12.2	16.23	13.91	7.82	-1.33	-0.61	-0.72	34.93	16.3	0
2000	47	10	177.36	5.38	184.6	7.58	180.64	11.98	18.8	14.93	8.79	-1.34	-0.5	-0.84	37.01	19.05	0
2000	47	11	182.22	7.5	190.36	10.07	183.16	14.18	16.1	13.69	8.79	-2.35	-1.01	-1.34	40.26	22.87	0
2000	47	12	202.87	7.08	216.76	8.87	202.46	19.55	11.73	10.45	5.53	-2.06	-0.98	-1.09	41.42	23.68	0
2000	47	13	189.04	11.25	204.69	13.53	195.78	19.31	8.99	8.08	6.1	-2.43	-1.11	-1.32	43.14	24.9	0
2000	47	14	193.37	11.38	192.66	13.96	179.8	19.44	8.49	7.34	4.81	-2.14	-1.01	-1.13	45.35	25.91	0
2000	47	15	190.12	15.06	182.64	15.15	168.86	18.84	5.38	4.92	3.26	-1.94	-0.91	-1.03	46.66	26.78	0
2000	47	16	188.22	18.91	174.64	24.11	170.65	35.76	6.63	5.16	3.19	-1.73	-0.82	-0.91	47.8	27.26	0
2000	47	17	257.18	24.07	255.24	33.74	233.21	59.78	8.82	6.28	2.99	-0.86	-0.77	-0.09	48.44	26.5	0
2000	47	18	275.02	16.27	284.38	19.08	279.72	33.66	12.29	9.81	4.55	-1.34	-0.95	-0.39	48.35	26.33	0
2000	47	19	295.29	11.74	305.93	14.66	305.73	28.7	19.71	18.51	8.45	-1.74	-1.08	-0.66	45.27	26.48	0

2000	47	20	293.36	10.95	304.43	13.46	304.53	27.58	20.35	17.78	8.06	-1.88	-1.12	-0.76	42.79	24.42	0
2000	47	21	307.85	15.71	321.1	17.64	320.16	28.76	17	15.8	7.03	-1.67	-1.05	-0.62	40.9	21.6	0
2000	47	22	312.22	10.71	325.45	12.06	324.65	23.01	23.09	21.89	9.28	-1.65	-1.04	-0.61	39.44	18.44	0
2000	47	23	312.54	15.45	326.21	18.61	330.48	30.6	17.94	16.55	7.35	-1.67	-1.04	-0.63	37.34	15.4	0
2000	48	0	320.55	16.52	330.23	17.94	331.28	30.7	17.83	16.17	7.58	-1.77	-1.04	-0.72	35.42	13.54	0
2000	48	1	318.47	19.35	329.77	22.15	327.22	39.93	18.38	16.14	8.06	-1.74	-1.04	-0.7	33.88	9.74	0
2000	48	2	320.82	16.2	336.35	16.21	334.31	25.2	17.75	16.1	7.49	-1.79	-1.06	-0.73	32.49	9.01	0
2000	48	3	319.28	14.43	332.88	17.39	332.65	28.52	21.29	19.55	9.49	-1.9	-1.06	-0.84	30.1	7.41	0
2000	48	4	326.46	22.42	343.51	22.68	343.85	30.46	13.63	12.73	6.91	-1.86	-1.06	-0.79	28.36	5.27	0
2000	48	5	310.29	11.32	324.31	11.6	321.81	21.94	19.99	19.35	8.72	-1.94	-1.08	-0.86	27.38	3.85	0
2000	48	6	311.85	9.61	323.97	12.88	321.08	22.47	18.62	17.47	7.47	-2.01	-1.11	-0.91	26.03	3.01	0
2000	48	7	324.52	10.95	336.47	12.1	334.93	23.78	16	15.15	6.91	-1.99	-1.08	-0.9	24.96	2.22	0
2000	48	8	343.08	12.14	354.31	14.95	358.43	22.45	13.48	12.85	7.47	-2.35	-1.13	-1.23	24.86	3.17	0
2000	48	9	357.02	12.17	5.77	14.52	10.99	19.9	10.45	9.57	6.55	-2.67	-1.23	-1.44	25.21	2.88	0
2000	48	10	353.29	13.35	4.23	14.82	5.72	22.88	10.45	9.59	6.35	-2.82	-1.26	-1.57	25.74	3.17	0
2000	48	11	355.32	15.72	3.79	16.82	357.24	22.44	9.11	8.58	6.17	-2.89	-1.28	-1.61	26.64	3.37	0
2000	48	12	336.19	12.12	349.2	14.18	345.91	23.17	14.21	13.69	7.37	-3.28	-1.24	-2.04	28.45	3.94	0
2000	48	13	320.61	15.39	334.91	16.33	333.35	26.79	15.92	15.08	7.51	-3	-1.18	-1.81	29.53	3.29	0
2000	48	14	315.83	13.21	327.76	16.55	324.21	26.1	12.82	11.82	5.93	-3.14	-1.23	-1.91	30.98	3.57	0
2000	48	15	317.01	13.07	327.6	15.68	327.5	27.14	13.12	12.09	5.68	-2.97	-1.26	-1.7	31.78	4	0
2000	48	16	319.97	14.16	335.17	15.38	339.5	24.09	10.91	10.39	5.41	-2.39	-1.12	-1.26	31.55	1.64	0
2000	48	17	319.99	15.86	329.42	15.63	340.58	31.03	7.16	7.05	3.44	-1.72	-1.03	-0.69	30.94	-0.04	0
2000	48	18	308.56	17.55	323.07	22.18	342.45	58.41	4.36	3.49	1.53	-1.42	-0.89	-0.53	30.46	0.06	0
2000	48	19	349.43	11.87	6.18	13.96	16.21	19.47	6.57	6.65	3.34	-0.72	-0.83	0.11	29.09	2.68	0
2000	48	20	27.6	9.07	20.7	9.55	12.49	17.78	5.81	5.72	3.45	-1.04	-0.74	-0.29	28.07	2.48	0
2000	48	21	32.4	9.41	30.65	8.66	28.57	14.84	6.1	6.69	4.61	-1.09	-0.74	-0.36	26.86	2.67	0
2000	48	22	20.91	8.78	26.53	6.01	26.55	15.79	6.73	6.57	4.35	-1.11	-0.82	-0.3	25.7	1.12	0
2000	48	23	30.95	9.79	33.93	7.8	33.11	15.65	5.7	5.45	3.52	-0.49	-0.76	0.27	24.61	2.86	0
2000	49	0	32.22	9.68	26.02	7.99	28.53	17.98	4.85	4.88	3.48	0.06	-0.39	0.45	23.56	2.49	0
2000	49	1	37.8	8.88	26.07	6.62	25.13	14.6	6.89	6.68	5	-0.24	-0.23	-0.01	23.06	1.98	0
2000	49	2	62.41	8.53	33.11	7.38	32.9	14.78	5.81	5.83	4.51	-0.64	-0.24	-0.4	23.03	0.68	0
2000	49	3	98.3	6.67	56.42	13.59	22.9	14.07	5.82	3.17	3.01	-1.03	-0.39	-0.63	23.42	0.72	0
2000	49	4	90.38	8.56	49.6	11.86	33.98	9.41	5.7	4.33	4.1	-1.08	-0.48	-0.59	23.89	0.68	0
2000	49	5	109.62	17.82	56.71	9.43	32.74	12.74	3.47	4.31	3.34	-1.06	-0.35	-0.7	24.34	1.12	0
2000	49	6	99.52	12.91	63.58	27.97	37.38	43.68	4.23	3.66	2.83	-1.37	-0.54	-0.83	24.9	2.17	0
2000	49	7	89.12	44.14	47.64	39.01	24.14	38.3	3.53	3.06	2.71	-1.72	-0.84	-0.88	23.61	7.02	0
2000	49	8	55.73	17.23	23.62	14.19	6.53	15.43	4.15	3.79	3.58	-1.35	-0.62	-0.72	22.79	10.3	0
2000	49	9	27.41	14.64	10.47	10.67	359.97	16.66	5.51	5.37	4.03	-1.22	-0.48	-0.74	23.59	11.38	0
2000	49	10	29.71	12.28	22.42	11.87	22.27	14.7	5.52	4.99	4	-1.2	-0.54	-0.66	24.63	12.81	0.02
2000	49	11	46.47	14.71	15.32	16.2	2.28	21.37	5.03	3.73	2.87	-0.77	-0.21	-0.56	25.21	14.4	0.03
2000	49	12	40.82	15.76	15.08	15.97	353.48	15.34	4.71	3.92	3.07	-0.71	-0.14	-0.57	26.01	15.56	0.04
2000	49	13	23.93	10.88	14.89	13.13	4.9	17.34	6.95	5.83	4.3	-0.32	0.37	-0.69	26.51	16.38	0.08
2000	49	14	16.44	8.98	15.63	11.66	7.34	15.37	9.71	7.66	5.19	0.8	1.64	-0.84	26.73	16.79	0.12
2000	49	15	17.73	9.23	13.89	9.8	6.72	13.99	11.95	9.98	6.63	0.87	1.7	-0.83	27.33	18.01	0.15
2000	49	16	13.38	10.17	12.52	10.07	11.64	14.57	12.8	11.22	7.57	0.48	1.42	-0.95	28.64	19.16	0.07
2000	49	17	13.12	9.6	17.41	11	14.32	14.22	14.37	12.3	8.37	0.39	0.88	-0.49	29.39	19.83	0.01
2000	49	18	10.55	10.35	16.34	9.33	15.83	14.37	14.09	12.25	8.49	0.48	0.94	-0.47	29.87	20.43	0.01
2000	49	19	6.05	10.62	12.81	12.32	14.03	17.62	12.84	11.08	7.38	0.51	0.93	-0.42	30.11	19.58	0
2000	49	20	0.99	13.49	5.8	13.88	10.02	19.4	12.57	11.37	6.69	-0.12	0.34	-0.45	30.23	18.93	0

2000	49	21	352.25	11.84	358.86	13.1	8.24	22.21	15.28	14.22	7.53	-0.77	-0.05	-0.72	28.85	18.18	0
2000	49	22	349.92	9.34	354.54	11.99	5.64	23.83	14.7	13.52	6.76	-0.98	-0.18	-0.8	27.85	17	0
2000	49	23	350.53	13.07	355.96	13.09	3.59	23.28	14.53	13.35	6.85	-1.1	-0.36	-0.73	27.28	16.26	0
2000	50	0	351.95	12.77	359.28	13.05	1.66	21.79	11.71	11.08	6.28	-1.17	-0.37	-0.81	26.97	15.66	0
2000	50	1	357.55	11.98	2.92	13.56	7.47	17.75	10.36	9.96	6.29	-1.17	-0.32	-0.85	26.71	15.39	0
2000	50	2	357.83	11.47	5.74	13.63	7.93	21.98	9.09	8.53	5.21	-0.72	0.16	-0.88	26.44	15.29	0
2000	50	3	0.23	12.49	7.46	13.27	4.71	20.73	6.44	6.35	4.37	-0.61	0.21	-0.81	26.49	15.43	0
2000	50	4	358.25	12.75	2.77	11.07	359.57	20.69	6.08	5.99	4.12	0.04	0.79	-0.75	26.83	16.26	0
2000	50	5	2.52	13.32	14.46	17	17.01	18	3.5	3	2.59	0.37	1.23	-0.86	27.3	16.52	0
2000	50	6	359.66	12.64	3.33	10.47	1.65	18.75	7.78	7.41	4.89	0.06	0.99	-0.92	27.8	17.67	0
2000	50	7	354.16	12.29	356.33	13.24	2.44	23.4	8.79	8.29	4.55	-0.29	0.57	-0.87	28.15	17.26	0
2000	50	8	356.47	11.45	5.12	12.21	12.55	19.6	6.51	6.33	4.29	-1.19	-0.39	-0.8	29.49	18.16	0.01
2000	50	9	359.05	13.82	1.56	10.03	3.45	17.27	9.45	9.45	5.7	-1.59	-0.64	-0.95	29.1	17.94	0
2000	50	10	357.31	10.89	3.83	10.88	6.07	17.4	10.24	9.82	6.52	-2.07	-1.02	-1.05	29.46	18.13	0
2000	50	11	349.29	9.62	355.48	12.71	3.94	22.3	11.43	11.36	6.58	-1.89	-0.87	-1.02	29.19	17.8	0
2000	50	12	347.92	8.77	354.02	13.01	2.8	21.36	10.95	11.05	5.86	-1.92	-0.85	-1.07	29.73	18.13	0
2000	50	13	342.6	7.83	351.24	10.01	359.48	23.64	10.28	10.19	5.11	-1.85	-0.82	-1.03	30.21	18.37	0
2000	50	14	334.9	6.58	346.63	8.8	353.7	23.24	9.57	9.75	4.72	-1.64	-0.73	-0.9	30.47	18.62	0
2000	50	15	349.59	11.68	0.45	11.17	5.61	18.49	8.98	8.86	5.52	-1.65	-0.82	-0.83	30.99	18.61	0
2000	50	16	350.54	9.45	357.7	12.82	2.9	20.39	11.2	10.88	6.41	-1.57	-0.77	-0.8	31.41	19.29	0
2000	50	17	352.75	11.3	0.45	11.36	4.86	18.6	12.55	12.42	6.8	-1.43	-0.65	-0.78	31.37	19.67	0
2000	50	18	352.99	11.04	0.64	13.05	6.85	17.6	13.53	13.62	7.55	-1.44	-0.72	-0.73	31.78	19.95	0
2000	50	19	353.09	12.44	0.66	12.59	7.73	17.88	11.72	11.41	6.32	-1.41	-0.66	-0.75	31.71	19.93	0
2000	50	20	356.42	12.59	3.13	10.65	5.8	16.26	10.23	10.52	6.09	-1.42	-0.69	-0.73	31.79	19.96	0
2000	50	21	347.89	8.32	355.03	11.29	350.31	21.27	9.3	9.08	4.21	-1.37	-0.75	-0.62	31.91	19.37	0
2000	50	22	339.36	8.9	348.94	10.79	349.28	18.15	7.85	7.69	4.26	-1.42	-0.79	-0.63	32	19.32	0
2000	50	23	352.16	8.94	6.17	10.94	13.34	18.48	7.32	7.09	4.36	-1.33	-0.71	-0.63	31.8	19.47	0
2000	51	0	332.47	22.85	3.86	14.87	13.98	18.94	4.23	4.11	3.4	-1.11	-0.55	-0.55	31.52	19.29	0
2000	51	1	303.91	41.74	39.51	35.31	62.98	44.08	2.23	2.76	2.55	-0.5	-0.47	-0.03	31.28	19.12	0
2000	51	2	250.59	27.55	207.21	34.74	122.32	44.45	2.9	2.2	1.86	-0.3	-0.49	0.19	31.1	19.02	0
2000	51	3	34.9	66.78	46.6	53.25	103.75	47.49	3.28	3.19	2.21	-1.05	-0.77	-0.27	31.61	18.17	0
2000	51	4	286.58	18.01	297.6	40.21	231.58	79.48	13.85	9.44	4.55	-1.5	-1.01	-0.49	31.68	16.78	0
2000	51	5	288.8	13.76	297.19	28.19	262.65	73.01	18.29	13.66	5.32	-1.75	-1.09	-0.66	31.14	15.85	0
2000	51	6	295.1	7.14	306.38	12.16	309.14	40.56	19.68	17.34	6.57	-1.84	-1.17	-0.67	30.58	15.58	0
2000	51	7	295.06	10.27	306.4	11.87	308.23	25.89	14.85	13.34	6.31	-1.81	-1.13	-0.68	30.48	15.54	0
2000	51	8	295.79	23.16	308.21	25.58	303.81	50.13	9.14	8.2	4.34	-1.99	-1.08	-0.92	31.38	15.21	0
2000	51	9	286.43	16.45	297.24	19.22	294.25	39.77	10.57	10.77	5.33	-2.42	-1.19	-1.23	32.46	16.84	0
2000	51	10	282.09	11.97	293.32	13	291.9	27.99	12.85	13.92	6.61	-2.5	-1.23	-1.27	33.14	16.18	0
2000	51	11	292.24	14.56	303.58	17.35	300.38	33.1	12.79	12.61	5.82	-2.58	-1.19	-1.39	34.12	16.46	0
2000	51	12	287.27	15.36	295.59	15.25	294.92	29.17	13.52	12.79	6.14	-2.52	-1.16	-1.36	35.37	15.94	0
2000	51	13	286.5	13.48	297.7	15.86	296.96	27.95	14.05	12.25	6.3	-2.42	-1.23	-1.19	36.17	16.05	0
2000	51	14	276.41	16.41	290.4	16.78	294.61	29.36	14.43	13.02	6.19	-2.62	-1.25	-1.37	37.07	16.46	0
2000	51	15	278.83	11.73	291.41	15.01	290.69	28.4	17.3	15.81	7.56	-2.55	-1.22	-1.34	37.7	16.7	0
2000	51	16	283.61	10.16	297.81	12.28	291.07	26.1	17.72	15.19	6.94	-2.25	-1.25	-1	37.63	16.81	0
2000	51	17	266.38	8.83	276.66	10.87	278.93	20.76	13.27	12	5.59	-1.59	-1.04	-0.56	36.56	15.44	0
2000	51	18	249.59	8.98	258.31	9.23	268.51	17.85	10.96	9.39	4.29	-1.29	-0.94	-0.35	35.68	15.59	0
2000	51	19	246.84	8.67	251.55	8.64	263.2	20.62	11.23	9.22	3.68	-1.08	-0.89	-0.19	34.97	16.11	0
2000	51	20	248.12	8.9	251.76	11.22	260.09	24.52	13.32	11.07	4.84	-1.32	-0.89	-0.43	34.74	16.24	0
2000	51	21	259.72	9.76	267.05	12.26	267.61	22.38	13	10.71	4.96	-1.32	-0.93	-0.39	34.52	15.79	0

2000	51	22	275.7	8.75	283.77	9.37	280.18	16.95	14.26	11.95	5.98	-1.33	-0.94	-0.39	33.98	15.46	0
2000	51	23	287.21	7.74	298.14	10.59	291.13	23.97	18.13	14.32	6.11	-1.41	-1.04	-0.37	33.65	15.51	0
2000	52	0	288.71	7.86	301.34	11.91	302.32	34.01	19.95	15.57	5.87	-1.65	-1.11	-0.54	33.37	15.6	0
2000	52	1	284.92	13.14	293.52	15.69	286.29	33.78	12.88	10.98	5.15	-1.53	-1.07	-0.46	32.54	13.96	0
2000	52	2	286.06	16.73	300.72	18.81	303.6	35.48	14.53	12.36	5.82	-1.58	-1.06	-0.53	32.31	12.95	0
2000	52	3	279.05	14.24	288.33	17.25	285.06	26.91	17.03	13.84	6.91	-1.48	-1	-0.49	31.9	11.95	0
2000	52	4	278.73	17.4	282.29	19.06	277.17	30.23	17.68	14.68	7.27	-1.49	-0.97	-0.52	31.63	11.31	0
2000	52	5	287.21	17.66	292.82	20.37	288.24	32.32	14.66	12.66	6.25	-1.49	-0.98	-0.51	31.24	11.34	0
2000	52	6	278.46	33.96	277.57	41.08	259.14	70.46	8.61	6.44	3.48	-1.41	-0.92	-0.48	31	11.14	0
2000	52	7	272.17	28.59	274.89	38.31	280.64	60.8	9.94	8.12	4.31	-1.64	-0.96	-0.67	31.28	12.25	0
2000	52	8	297.28	12.76	306.57	15.84	301.9	32.88	14.11	12.17	5.37	-2.23	-1.17	-1.06	32.52	14.44	0
2000	52	9	290.47	11.55	300.93	13.62	294.54	35.36	14.02	12.85	6.06	-2.68	-1.24	-1.44	33.75	15.41	0
2000	52	10	290.28	13.5	296	15.62	291.15	32.07	10.51	9.91	5.2	-2.75	-1.19	-1.56	35.3	15.56	0
2000	52	11	289.9	13.05	300.32	16.42	295.29	27.93	12.66	12.47	6.62	-3.03	-1.24	-1.79	36.59	15.9	0
2000	52	12	321.73	15.67	336.24	17.56	340.62	30.36	9.51	9.14	5.24	-2.67	-1.13	-1.54	37.66	16.25	0
2000	52	13	288.45	23.38	302.55	26.07	303.26	44.84	9.13	7.84	4.52	-2.61	-1.15	-1.46	39.31	16.05	0
2000	52	14	267.26	13.56	275.26	15.26	272.66	29.96	10.03	9.54	5.18	-2.67	-1.1	-1.57	40.4	16.26	0
2000	52	15	266.83	17.34	280.25	21.7	269.96	34.34	7.5	6.69	4.03	-2.44	-1.13	-1.31	41.12	16.93	0
2000	52	16	259.55	7.99	270.57	11.87	269.66	27.45	10.05	9.18	4.37	-2.13	-1.02	-1.1	41.38	15.98	0
2000	52	17	256.62	7.91	267.61	10.1	269.14	19.98	9.71	8.52	3.65	-1.36	-0.92	-0.44	40.63	14.65	0
2000	52	18	229.3	10.37	228.36	10.88	197.86	17.59	6.6	5.7	2.03	-0.48	-0.85	0.37	39.24	14.13	0
2000	52	19	220.82	7.51	231.88	8.58	205.01	22.05	8.72	7.32	2.64	0.64	-0.55	1.18	37.11	14.02	0
2000	52	20	236.78	15.28	233.58	21.33	204.43	24.92	8.48	5.74	3.04	-0.74	-0.64	-0.1	36.63	14.59	0
2000	52	21	236.34	28.14	216.99	29.56	200.96	17.53	5.06	4.42	2.9	-0.63	-0.88	0.24	35.64	14.87	0
2000	52	22	244.53	33.07	231.58	41.4	127.6	65	4.77	3.22	1.72	-0.08	-0.84	0.76	34.63	14.95	0
2000	52	23	248.3	43.75	229.91	38.53	250.01	48.52	3.37	3.99	2.24	1.23	-0.27	1.5	32.96	15.15	0
2000	53	0	177.87	19.25	217.75	11.97	46.61	45.86	4.07	2.81	1.76	3.02	0.14	2.88	30.1	14.32	0
2000	53	1	150.44	7.85	268.14	52.76	7.13	14.04	2.74	1.43	2.55	3.37	-0.05	3.42	29.19	14.29	0
2000	53	2	148.78	7.01	349.74	37.87	3.24	25.06	2.47	1.45	1.76	3.67	-0.41	4.08	27.54	13.9	0
2000	53	3	160.66	6.18	185.62	43.86	344.05	49.5	2.96	1.97	1.39	2.92	0.17	2.76	27.38	13.31	0
2000	53	4	200.49	7.09	202.59	17.43	357.61	41.77	3.98	2.54	1.29	3.24	0.3	2.94	27	13.51	0
2000	53	5	167.99	11.19	197.2	11.21	338.16	41.72	3.67	2.04	1.54	3.75	0.72	3.03	26.28	12.99	0
2000	53	6	177.31	10.17	246.31	11.99	13.02	26.11	3.03	1.86	1.56	2.94	-0.28	3.23	26.14	12.67	0
2000	53	7	173.1	10.66	310.79	33.2	1.13	19.43	2.81	1.44	1.37	3.2	0.89	2.32	26.06	13.36	0
2000	53	8	170.03	7.75	217.72	53.4	210.67	41.65	3.7	1.57	1.19	0.34	0.1	0.24	28.91	15.83	0
2000	53	9	174.11	18.79	170.09	16.55	170.49	19.33	3.67	3.5	3.21	-1.69	-0.72	-0.97	32.75	17.36	0
2000	53	10	159.23	22.57	171.06	31.03	197.36	34	3.45	3.37	2.83	-1.74	-0.84	-0.9	36.15	19.13	0
2000	53	11	152.25	17.36	202.59	30.95	254.99	28.04	4.15	3.98	3.86	-0.7	-0.34	-0.36	38.31	20.48	0
2000	53	12	138.9	11.49	183.54	27	246.67	23.51	4.74	3.67	3.67	-0.4	-0.47	0.07	41.57	21.22	0
2000	53	13	146.86	16.05	175.88	18.63	209.92	34.63	4.92	4.8	3.74	-1.43	-1.07	-0.36	46.22	23.62	0
2000	53	14	144.12	9.18	154.16	12.64	163.62	22.84	8.34	7.71	5.17	-2.44	-1.11	-1.33	49.42	24.72	0
2000	53	15	140.24	3.56	148.42	7.5	150.09	19.95	13.85	11.72	5.53	-2.14	-0.77	-1.37	48.9	24.89	0
2000	53	16	145.92	3.31	153.63	7.28	154.14	16.6	16.23	12.22	6.17	-1.24	-0.45	-0.78	47.68	24.22	0
2000	53	17	148.54	2.53	156.95	7.89	160.95	15.65	15.19	10.48	5.25	-0.3	-0.12	-0.18	45.38	22.62	0
2000	53	18	155.36	2.47	162.59	5.8	160.91	12.55	11.29	9.66	4.88	0.18	0.01	0.17	42.45	20.8	0
2000	53	19	163.08	3.57	161.68	4.18	158.64	10.58	9.15	7.5	3.56	0.34	-0.09	0.42	40.56	19.36	0
2000	53	20	163.43	3.51	159.91	3.72	162.5	9.82	8.27	6.48	3.15	0.56	-0.03	0.58	39.37	18.81	0
2000	53	21	157.91	3.63	160.57	5.25	169.17	9.12	6.97	6.66	3.24	0.49	0.03	0.46	38.18	18.69	0
2000	53	22	157.42	4.41	164.76	6.98	180.89	12.61	7.16	5.11	3.3	0.11	0.08	0.03	37.39	19.39	0

2000	53	23	167.84	5.79	192.67	17.65	251.92	15.01	7.47	3.61	2.15	0.57	0.59	-0.02	36.1	19.58	0
2000	54	0	187.95	3.68	192.36	13.88	260.3	31.81	7.69	2.72	1.39	2.54	0.69	1.84	34.26	19.31	0
2000	54	1	170.55	4.04	189.87	13.11	6.13	19.2	6.02	2.3	1.75	2.96	0.59	2.37	33.16	18.56	0
2000	54	2	157.4	3.2	183.4	12.99	356.01	28.46	4.79	3.08	1.74	4.16	1.01	3.15	31.73	17.51	0
2000	54	3	158.01	4.85	202.94	15.19	355.31	24.62	5.29	2.83	1.49	3.81	0.86	2.95	30.89	17.31	0
2000	54	4	166.39	3.59	219.97	28.33	26.45	35.37	6.11	3.37	1.78	4.8	0.94	3.85	29.93	16.48	0
2000	54	5	172.29	4.84	261.8	16.88	357.97	18.14	5.16	2.42	1.45	4.32	0.29	4.03	29.42	16.12	0
2000	54	6	184.16	10.46	322.92	21.45	19.49	17.36	3.21	1.78	2.21	4.37	0.48	3.88	29.2	15.93	0
2000	54	7	97.39	40.62	55.59	18.26	357.53	15.18	1.18	3.64	2.06	4.63	0.27	4.36	28.67	16.45	0
2000	54	8	181.57	24.87	197.05	16.53	164.99	21.49	2.59	2.21	1.87	1.51	0.54	0.97	32.18	19.04	0
2000	54	9	154.29	11.94	179.04	20.39	187.42	32.72	4.48	3.02	2.52	-1.18	-0.57	-0.61	35.82	21.17	0
2000	54	10	139.06	6.29	154.69	12.18	212.75	23.16	6.37	3.78	2.93	-0.02	-0.36	0.34	37.52	21.48	0
2000	54	11	148.71	5.49	151.94	12	169.49	24.51	7.48	5.94	3.97	-0.52	0.29	-0.81	41.36	24.25	0
2000	54	12	176.32	10.26	175.97	12.96	183.95	23.12	9.51	6.98	4.99	-1.33	-0.58	-0.75	45.6	27.58	0
2000	54	13	194.68	9.5	202.29	12.08	189.43	15.85	15.76	13.27	8.7	-2.46	-1.16	-1.3	50.38	29.1	0
2000	54	14	196.88	8.53	202.63	11.5	186.81	13.47	15.59	12.72	8.37	-2.1	-1	-1.1	51.54	27.44	0
2000	54	15	190.18	7.3	196.16	11	184.83	14.9	15.77	13.17	8.63	-2.26	-0.97	-1.28	52.99	27.48	0
2000	54	16	190.1	6.03	198.42	8.02	185.38	13.8	16.36	14.45	8.31	-1.34	-0.82	-0.52	52.87	27.14	0
2000	54	17	188.53	4.51	193.53	4.83	175.14	10.93	15.19	13.58	6.19	-0.05	-0.81	0.76	50.54	26.55	0
2000	54	18	197.26	4.53	199.27	4.66	165.21	8.05	10.04	7.69	2.66	0.17	-0.75	0.92	49.64	26.63	0
2000	54	19	192	3.39	195.59	3.29	177.91	13.66	11.31	9.13	3.33	0.68	-0.8	1.48	48.69	26.59	0
2000	54	20	180.97	4.49	182.32	4.84	183.56	46.96	8.64	6.44	1.59	1.65	-0.45	2.1	47.12	26.11	0
2000	54	21	174.12	3.88	171.9	7.89	327.53	35.77	7.16	3.45	1.57	2.64	0.62	2.01	45.8	26.11	0
2000	54	22	182.14	3.42	201.53	10.39	339.56	24.17	7.41	3.44	1.74	3.87	0.91	2.95	44.23	25.87	0
2000	54	23	187.24	3.9	217.05	12.89	356.47	48.01	6.74	2.46	1.53	4.58	0.47	4.11	42.5	25.37	0
2000	55	0	171.14	4.05	214.68	13.6	315.19	36.8	7.22	2.93	1.7	3.41	0.55	2.86	42.58	25.49	0
2000	55	1	182.77	10.84	246.94	18.76	9.82	47.52	4.94	2.29	1.42	1.98	-0.08	2.06	43.04	25.54	0
2000	55	2	188.63	20.88	221.17	33.35	35.45	40.45	2.01	1.61	1.69	2.96	0.06	2.9	41.95	25.25	0
2000	55	3	209.77	18.9	250.68	32.34	343.2	50.77	2	1.76	1.72	3.56	0.31	3.24	40.96	24.96	0
2000	55	4	129.55	33.83	77.1	40.55	11.8	17.23	1.95	1.39	2.13	4.39	0.26	4.14	39.87	24.43	0
2000	55	5	189.94	9.58	234.18	43.18	18.33	19.63	3.64	1.45	1.97	4.72	0.32	4.4	38.47	23.64	0
2000	55	6	218.1	7.56	39.21	49.64	1.82	61.31	3.92	1.46	1.75	5.51	1.8	3.71	38.06	23.71	0
2000	55	7	201.84	7.37	142.37	12.84	16.77	45.36	3.25	2.26	1.34	5.01	1.24	3.78	37.69	24.1	0
2000	55	8	187.88	22.49	147.84	9.81	341.36	18.39	1.58	2.24	1.44	3.4	0.33	3.07	39.4	25.54	0
2000	55	9	182.21	26.8	165.47	18.69	268.39	28.43	3.12	3	2.47	0.64	0.26	0.37	43.16	28.09	0
2000	55	10	191.1	34.82	158.67	19.81	165.59	32.74	3.45	3.43	2.89	-1.45	-0.53	-0.92	48.06	29.78	0
2000	55	11	130.2	23.9	166.28	21.32	234.61	24.74	3.71	3.08	3.55	-0.01	-0.32	0.32	50.27	31.08	0
2000	55	12	150.44	14.29	183.3	21.08	197.74	21.77	2.79	3.4	3.41	0.48	1.15	-0.67	53.23	32.4	0
2000	55	13	148.91	13.49	179.82	17.14	194.19	18.26	2.75	3.56	3.57	-1.34	-0.55	-0.79	56.61	33.86	0
2000	55	14	144.01	7.9	192.44	16.7	227.02	22.58	4.54	4.08	3.57	-0.81	-0.21	-0.61	57.27	34.12	0
2000	55	15	137.04	2.44	164.67	12.24	237.25	18.37	7.53	4.05	2.88	1.22	0.88	0.34	57.25	34.61	0
2000	55	16	137.02	1.99	150.28	5.21	244.05	47.96	7.59	4.54	1.58	2.75	1.22	1.53	56.84	34.48	0
2000	55	17	155.21	4.5	144.06	7.01	187.49	31.11	5.56	4.92	1.66	3.56	1.73	1.82	56.08	33.61	0
2000	55	18	160.89	6.03	139.84	14.01	319.13	50.65	3.03	2.29	1.41	3.79	1.35	2.44	54.19	33.15	0
2000	55	19	171.28	5.78	203.99	27.08	346.07	12.19	3.9	2.36	2.12	5.39	2.25	3.14	51.4	32.37	0
2000	55	20	178.49	30.11	22.46	38.31	22.74	20.48	2.24	1.96	3.44	7.89	2.58	5.31	48.5	31.53	0
2000	55	21	148.99	6.74	2.98	51.84	20.27	42.61	2.66	2.17	3.14	7.66	0.95	6.71	46.41	30.41	0
2000	55	22	187.6	58.58	20.69	16.99	28.72	13.99	1.17	4.61	4.6	8.26	1.53	6.74	46.08	30.31	0
2000	55	23	87.69	22.08	15.9	5.44	27.76	10.32	1.29	6.42	4.39	8.42	2.15	6.28	44.67	29.97	0

2000	56	0	103.97	23.64	22.04	8.06	28.79	16.38	2	6.56	3.95	8.23	2.52	5.7	43.68	29.6	0
2000	56	1	13.49	68.84	359.04	10.43	13.09	18.78	1.11	4.83	2.93	7.68	2.73	4.95	43.05	29.33	0
2000	56	2	92.25	24.9	11.31	8.45	12.85	15.44	1.61	4.88	2.61	7.63	2.81	4.82	42.83	29.35	0
2000	56	3	72.38	22.67	13.69	9.54	7.77	23.19	1.93	4.55	2.65	7.46	1.89	5.57	41.79	28.77	0
2000	56	4	50.4	12.81	27.19	7.6	48.83	14.76	5.16	7.08	4.02	7	2.65	4.35	42.55	28.97	0
2000	56	5	74.42	49.62	9.11	12.93	20.68	42.86	2.12	4.19	2.35	5.57	0.75	4.82	41.5	28.85	0
2000	56	6	55.27	65.49	310.93	38.78	51.89	44.59	1.36	2.23	1.92	5.49	0.96	4.53	41.44	29.11	0
2000	56	7	55.13	12.53	28.37	7.02	23.41	12.84	5.68	7.02	4.09	4	0.44	3.56	42.6	30.72	0
2000	56	8	39.5	15.78	29.54	17.66	16.11	25.28	6.04	5.98	3.65	1.69	-0.59	2.28	44.18	31.97	0
2000	56	9	19.22	19.07	15.08	13.63	6.4	16.86	6.82	6.83	4	-0.34	-0.83	0.49	45.85	33.17	0
2000	56	10	55.05	20.84	43.69	34.21	13.51	47.75	6.81	5.31	3.46	-0.46	-0.59	0.13	45.62	33.97	0.09
2000	56	11	40.29	17.44	13.14	18.52	346.3	16.07	5.23	4.48	2.85	-0.41	-0.3	-0.12	45.24	34.59	0.02
2000	56	12	35.8	13.62	21.1	14.51	357.4	14.43	6.64	5.27	3.51	-0.62	-0.25	-0.37	46.02	35.54	0
2000	56	13	41.52	12.76	45.03	14.72	29.55	24.21	11.76	9.92	5.77	-1.02	-0.34	-0.68	45.61	34.93	0.03
2000	56	14	56.47	12.46	61.27	13.7	44.84	21.8	11.42	9.44	5.37	-1.49	-0.63	-0.87	44.5	33.13	0
2000	56	15	45.65	11	49.95	13	35.13	17.82	11.99	10.25	6.57	-1.57	-0.65	-0.92	42.9	31.26	0
2000	56	16	47.92	14.53	51.55	16.51	37.92	23.78	9.69	7.73	4.55	-1.46	-0.69	-0.78	41.86	29.61	0
2000	56	17	25.83	13.6	31.54	12.95	24.28	15.58	9.84	8.82	5.64	-1.37	-0.66	-0.71	41.21	29.3	0.02
2000	56	18	12.06	9.91	16.98	10.69	12.1	16.48	11.12	9.13	5.51	-1.17	-0.51	-0.66	40.28	29.14	0
2000	56	19	16.93	8.75	22.71	9.74	21.95	15.13	12.54	9.52	5.87	-1.31	-0.66	-0.64	40.18	28.59	0
2000	56	20	21.78	11.42	31.23	11.3	25.32	15.59	13.2	10.68	6.87	-1.45	-0.75	-0.7	40.05	28.03	0
2000	56	21	16.56	10.05	24.92	13.03	27.48	14.67	11.25	8.88	5.91	-1.5	-0.78	-0.72	39.72	27.42	0
2000	56	22	26.77	9.97	35.88	11.2	27.95	15.79	12.08	10.13	6.31	-1.6	-0.84	-0.76	39.45	26.66	0
2000	56	23	18.9	11.41	25.36	14	21.8	17.06	10.93	8.64	5.8	-1.58	-0.85	-0.74	39.08	26.38	0
2000	57	0	19.97	9.81	30.3	10.82	29.4	11.5	11.83	10.02	6.81	-1.61	-0.84	-0.77	38.77	26.27	0
2000	57	1	21.12	11.63	28.81	12.39	24.77	14.7	10.27	8.18	5.47	-1.61	-0.81	-0.8	38.43	25.94	0
2000	57	2	21.13	10.24	29.02	11.28	25.5	13.31	10.12	8.44	5.56	-1.59	-0.83	-0.77	38.3	25.64	0
2000	57	3	23.15	9.58	32.57	10.77	30.08	14.12	10.24	8.66	5.84	-1.6	-0.85	-0.74	38.18	25.21	0
2000	57	4	16.3	9.73	24.42	13.6	23.85	17.65	10.09	8.44	5.51	-1.61	-0.85	-0.76	38.03	25.07	0
2000	57	5	22.26	11.03	27.82	11.9	23.24	14.98	10.09	8.98	6.02	-1.61	-0.83	-0.78	37.88	25.26	0
2000	57	6	22.62	10.43	33.35	9.77	28.58	12.88	11	9.47	6.68	-1.72	-0.87	-0.85	37.71	25.13	0
2000	57	7	14.92	11.68	19.32	13.89	19.9	19.15	8.97	7.86	5.01	-1.65	-0.84	-0.81	37.62	24.99	0
2000	57	8	18.81	8.5	29.62	9.46	33.24	13.15	10.12	8.88	5.97	-1.77	-0.87	-0.9	37.93	25.26	0
2000	57	9	23.05	12.57	29.12	12.57	26.78	14.99	9.45	8.47	6.47	-1.8	-0.84	-0.96	38.46	26.2	0
2000	57	10	20.03	14.18	23.73	16.02	20.01	24.09	7.4	6.98	4.77	-1.84	-0.85	-1	39.18	26.75	0
2000	57	11	13.89	12.68	18.4	16.76	12.11	22.21	6.45	5.97	4.18	-1.9	-0.84	-1.07	39.83	27.54	0
2000	57	12	18.48	13.42	24.06	17.87	23.46	16.16	5.41	5.12	4.19	-1.93	-0.85	-1.08	40.22	28.32	0
2000	57	13	14.68	14.05	17.42	16.39	16.69	21.71	5.36	5.16	3.89	-1.96	-0.8	-1.16	40.67	29.07	0
2000	57	14	8.69	13.09	10.78	15.06	2.95	18.19	5.14	5.17	3.69	-1.68	-0.63	-1.06	40.78	29.42	0
2000	57	15	358.67	13.16	2.26	11.98	0.11	19.15	4.4	4.08	2.52	-1.58	-0.51	-1.07	40.88	29.8	0
2000	57	16	354.7	12.68	1.38	11.15	4.79	18.39	5.21	5.16	3	-1.51	-0.57	-0.94	41.13	29.79	0
2000	57	17	6.5	10.83	12.04	12.68	9.32	18.6	5.06	4.54	2.66	-1.3	-0.47	-0.83	40.65	29.49	0
2000	57	18	23.72	9.59	27.62	11.95	24.02	18.89	5.33	4.64	2.82	-1.18	-0.38	-0.8	40.76	29.56	0
2000	57	19	6.84	12.47	17.29	11.1	14.46	20.29	4.03	4.21	2.75	-1.01	-0.06	-0.94	40.35	29.58	0
2000	57	20	20.17	8.57	26.95	10.09	15.45	17.47	4.85	4.46	2.61	-0.4	0.47	-0.87	39.75	29.65	0
2000	57	21	14.7	10.46	22.12	14.82	9.8	18.02	4.18	3.47	2.21	-0.54	0.66	-1.2	39.26	29.14	0
2000	57	22	21.68	14.57	9.52	11.92	11.26	18.05	2.81	2.83	1.96	-0.02	0.88	-0.9	36.7	26.64	0
2000	57	23	24.92	14.84	19.68	9.44	26.1	17.43	1.78	1.96	1.61	0.1	1.29	-1.19	34.95	24.81	0
2000	58	0	276.33	36.6	313.87	37.4	153.06	46.85	1	0.98	0.97	1.29	2.46	-1.16	35.5	25.94	0

2000	58	1	212.78	64.54	73.57	23.41	74.33	48.86	1.41	1.86	1.17	2.04	2.31	-0.27	1000	999.99	0
2000	58	2	209.63	15.27	127.7	11.17	203.01	18.34	1.95	1.65	1.04	2.41	2.11	0.3	1000	999.99	0
2000	58	3	224.74	10.06	199.02	13.19	175.63	11.19	3.03	2.38	1.83	2.38	1.04	1.34	1000	999.99	0
2000	58	4	221.18	6.24	184.68	17.22	43.41	45.48	3.16	1.84	1.14	1.51	1.11	0.4	1000	999.99	0
2000	58	5	201.61	9.32	153.5	17.08	347.96	18.66	1.84	1.27	1.46	3.16	2.44	0.72	1000	999.99	0
2000	58	6	179.95	10	71.78	44.58	35.63	24.99	1.72	0.95	1.25	3.13	2.13	1	1000	999.99	0
2000	58	7	154.98	3.77	193.4	12.79	194.13	16.9	2.43	1.85	1.36	1.69	0.92	0.77	1000	999.99	0
2000	58	8	157.05	5.32	188.84	13.15	207.17	22.03	3.58	2.95	2.08	3.41	3.49	-0.09	1000	999.99	0
2000	58	9	156.52	6.15	175.36	11.92	185.04	15.04	6.06	4.37	3.58	4.19	3.58	0.61	1000	999.99	0
2000	58	10	157.41	3.43	160.46	6.94	167.96	11.95	7.35	6.49	4.66	1	1.03	-0.03	1000	999.99	0
2000	58	11	152.63	4.76	159.09	8.28	160.96	15.3	8.42	7.44	4.49	3.53	4.4	-0.87	1000	999.99	0
2000	58	12	149.7	4.29	155.58	8.65	159.99	18.97	8.52	7.03	4.23	2.92	2.78	0.14	1000	999.99	0
2000	58	13	156.57	6.13	158.33	12.94	165	17.98	5.61	4.23	2.98	0.85	0.64	0.21	1000	999.99	0
2000	58	14	144.59	7.98	160.08	13.86	225.96	53.27	5.92	3.99	2.18	0.23	0.24	0	1000	999.99	0
2000	58	15	157.33	4.94	173.88	7.26	226.93	24.84	5.79	4.6	1.72	0.45	0.7	-0.25	41.86	29.4	0
2000	58	16	136.28	3.51	162.55	27.82	295.74	40.45	5.61	1.95	1.34	-0.36	0.99	-1.35	44.77	33.49	0
2000	58	17	145.66	4.09	161.59	7.97	191.61	23.48	7.69	4.56	1.9	0.78	1.04	-0.26	44.58	33.91	0
2000	58	18	137.59	4.17	150.34	7.93	195.21	28.73	7.86	5.41	2.48	1.37	1.18	0.18	41.73	30.8	0
2000	58	19	148.35	5.07	186.41	11.27	226.37	24.4	7.31	5.05	2.49	2.94	2.09	0.84	36.33	-1.77	0
2000	58	20	162.26	8.23	193.63	16.57	256.25	33.33	5.06	2.88	1.33	-0.05	-0.37	0.31	1000	999.99	0
2000	58	21	176.81	20.79	241.23	35.72	153.63	69.45	4.61	3.03	1.29	1.47	0.74	0.72	1000	999.99	0.05
2000	58	22	160.84	12.67	193.13	21.37	205.17	44.4	8.65	5.64	2.68	2.58	1.4	1.19	1000	-49.15	0.01
2000	58	23	174.85	13.52	198.91	24.11	128.78	53.5	6.36	3.24	1.97	1.59	1.08	0.51	1000	-46.33	0
2000	59	0	162.59	7.55	165.15	17.69	157.53	19.15	10.17	5.28	3.25	1.36	2.77	-1.4	1000	-49.65	0
2000	59	1	188.45	21.48	201.29	28.57	223.78	41.67	15.9	11.44	5.7	0.42	-0.47	0.9	1000	-49.1	0.16
2000	59	2	280.93	17.83	289.11	23.17	283.15	55.77	7.05	9.52	3.89	0.48	-2.24	2.72	37.22	11.05	0.02
2000	59	3	296.85	22.91	303.95	21.98	301.01	44.61	9.85	12.53	5.77	-0.87	-0.9	0.02	49.26	37.18	0
2000	59	4	312.27	22.29	322.7	27.89	325.48	34.73	13.56	12.2	6.55	-1.58	-0.9	-0.68	46.22	32.77	0
2000	59	5	294.87	16.64	304.87	24.12	295.29	60.19	14.03	11.56	5.15	-1.4	-0.83	-0.57	44	30.11	0.01
2000	59	6	301.89	11.1	314.33	13.96	313.05	28.07	24.82	21.3	9.05	-1.38	-0.86	-0.52	43.25	29.6	0
2000	59	7	322.17	17.07	336.81	19.24	340.16	31.74	19.76	17.53	8.86	-1.62	-0.96	-0.65	43.81	28.3	0
2000	59	8	307.9	15.53	319.28	21.04	322.43	32.35	17.28	15.27	7.4	-1.87	-1.07	-0.8	44.23	26.87	0
2000	59	9	307.81	14.97	322.23	18.13	323.03	27.92	14.99	13.71	6.81	-2.26	-1.09	-1.17	44.8	27.1	0
2000	59	10	307.64	17.47	321.2	19.69	321.14	35.02	16.27	14.46	7.03	-2.52	-1.12	-1.4	45.93	27.66	0
2000	59	11	300.55	14.67	312.6	16.67	312.31	28.21	22.44	20.95	9.22	-2.29	-1.09	-1.2	46.37	25.17	0
2000	59	12	301.27	12.93	312.99	15.65	309.72	31.04	20.09	18.61	8.35	-2.32	-1.12	-1.2	45.77	24.97	0
2000	59	13	304.83	14.18	316.95	16.72	316.23	30.11	20.06	18.01	8.31	-2.66	-1.13	-1.53	46.65	25.38	0
2000	59	14	304.6	15.19	316.76	18.01	316.21	29.83	19.86	17.85	8.02	-2.72	-1.17	-1.55	47.32	24.98	0
2000	59	15	309.03	13.24	322.56	14.68	323.58	29.26	23.66	22.33	10.21	-2.38	-1.1	-1.28	46.1	22.98	0
2000	59	16	307.01	14.65	318.98	18.86	319.09	29.79	20.43	18.42	8.16	-2.25	-1.1	-1.16	45.45	21.64	0
2000	59	17	296.53	14.29	309.29	17.47	311.65	32.24	18.51	16.51	7.9	-1.99	-1.12	-0.88	43.79	21.8	0
2000	59	18	292.01	12.73	303.35	14.48	300.91	29.37	20.1	17.74	8.21	-1.87	-1.1	-0.77	41.79	22.05	0
2000	59	19	307.08	16.66	316.61	18.51	316.91	34.25	19.29	16.83	7.77	-1.84	-1.07	-0.78	41.13	21.03	0
2000	59	20	300.02	14.07	311.76	15.87	312.49	29.13	22.19	19.22	9.23	-1.97	-1.09	-0.88	40.82	21.42	0
2000	59	21	302.84	18.52	315.32	20.81	313.77	35.35	15.01	13.19	6.3	-1.83	-1.1	-0.74	40.7	20.52	0
2000	59	22	309.62	26.6	325.64	28.14	333.47	40.06	13.38	12.02	5.98	-1.71	-1.05	-0.65	39.95	19.96	0
2000	59	23	299.57	14.68	312.35	16.73	314.42	29.51	15.05	13.09	6.23	-1.71	-1.09	-0.62	39.34	19.46	0
2000	60	0	293.81	9.16	304.03	10.72	302.52	22.34	21.73	19.41	8.48	-1.83	-1.13	-0.7	39.39	19.4	0
2000	60	1	300.6	9.2	310.77	11.19	311.18	25.12	21.81	19.48	7.89	-1.77	-1.11	-0.66	39.09	19.11	0

2000	60	2	300.38	9.96	313.07	12.55	318.85	25.34	22.03	19.67	8.02	-1.78	-1.1	-0.67	38.28	18.6	0
2000	60	3	305.91	8.91	317.84	11.11	320.79	26.7	23.56	21.75	8.58	-1.73	-1.07	-0.66	37.57	18.16	0
2000	60	4	308.73	10.03	322.02	12.02	331.63	30.74	22.89	20.65	7.96	-1.66	-1.03	-0.62	36.91	17.71	0
2000	60	5	321.83	19.87	336.48	20.23	347.29	29.79	15.21	13.17	6.9	-1.62	-0.97	-0.65	36.62	16.99	0
2000	60	6	321.25	17.55	338.06	17.72	341.94	26.34	16.81	14.72	7.69	-1.62	-0.96	-0.65	36.7	17.3	0
2000	60	7	316.32	23.57	336.47	26.08	345.78	35.67	13.1	11.6	6.87	-1.92	-1.06	-0.86	36.78	18.04	0
2000	60	8	327.63	18.39	336.39	17.98	338.55	28.19	13.93	13.32	7.29	-2.25	-1.09	-1.16	37.97	18.75	0
2000	60	9	338.96	17.37	350.12	18.3	349.27	26.65	15.37	13.72	7.42	-2.51	-1.11	-1.4	40.31	19.03	0
2000	60	10	323.03	20.27	335.79	24.61	338.17	33.09	13.44	12.35	7.05	-2.87	-1.21	-1.66	43.11	18.92	0
2000	60	11	312.95	15.5	324.16	18.99	327.91	32.89	15.45	13.57	6.59	-3.12	-1.19	-1.92	45.9	18.25	0
2000	60	12	302.84	20.43	317.24	22.82	317.47	30.29	12.72	11.42	5.91	-3.21	-1.26	-1.95	48.8	17.51	0
2000	60	13	305.91	16.35	316.33	20.02	317.78	32.75	15.51	14.12	7.28	-3.14	-1.23	-1.92	50.81	16.55	0
2000	60	14	307.89	16.88	319.99	18.94	321.2	30.38	18.55	16.62	7.7	-2.93	-1.17	-1.76	52.29	15.79	0
2000	60	15	315.62	14.9	327.75	17.24	325.06	28.37	15.74	14.93	6.95	-2.6	-1.11	-1.49	53.07	14.93	0
2000	60	16	306.33	17.05	321.92	18.43	322.27	30.53	13.32	12.21	6.36	-2.27	-1.09	-1.18	53.41	13.72	0
2000	60	17	307.62	12.74	317.8	14.92	320.84	25.25	17.17	15.36	6.71	-1.63	-1.06	-0.57	52.5	13.1	0
2000	60	18	327.57	14.68	342.53	15.86	342.6	23.19	15.94	14.64	6.8	-1.23	-0.94	-0.3	50.92	12.15	0
2000	60	19	322.1	17.76	336.59	16.92	341.58	29.52	14.54	13.18	5.82	-1.15	-0.92	-0.23	49.33	12.33	0
2000	60	20	346.03	19.56	4.87	20.37	13.9	28.08	10.17	8.77	5.02	-0.87	-0.76	-0.1	47.8	12.25	0
2000	60	21	1.17	9.55	15.01	7.01	32.61	14.23	12.01	9.52	5.26	1.07	-0.19	1.26	44.05	13.66	0
2000	60	22	349.57	3.45	0.89	6.48	7.25	18.2	15.12	12.66	5.4	0.16	-0.53	0.69	42.99	14.22	0
2000	60	23	344.06	5.15	358.12	10.52	3.15	24.77	16.39	14.21	5.81	-0.6	-0.65	0.05	41.99	15.16	0
2000	61	0	358.16	11.32	18.03	15.2	36.72	22.93	9.06	7.31	3.27	-0.37	-0.59	0.22	39.69	15	0
2000	61	1	357.92	13.17	7.68	8.02	8.1	15.52	15.77	13.26	6.97	-1.07	-0.76	-0.31	38.81	16.97	0
2000	61	2	354.95	9.25	5.19	13.33	15.68	15.81	11.6	9.94	5.65	-1.21	-0.76	-0.45	38.02	17	0
2000	61	3	344.5	6.69	0.45	10.21	15.74	19.18	10.86	8.96	4.18	-0.09	-0.54	0.45	37.7	16.27	0
2000	61	4	343.93	10.87	8.51	12.28	35.51	29.72	9.17	8.43	5.35	1.65	0.08	1.57	35.48	15.98	0
2000	61	5	350.49	11.65	12.07	12.06	63.76	42.25	9.02	7.17	3.74	1.54	-0.08	1.62	34.23	15.6	0
2000	61	6	351.43	7.39	13.08	13.98	41.09	62.16	7.46	4.92	3.09	2.8	1.14	1.66	32.41	15.69	0
2000	61	7	305.4	41.08	141.21	31.56	39.66	30.19	2.57	1.95	2.1	1.78	1.69	0.09	32.83	16.89	0
2000	61	8	157.75	25.76	172.28	45.43	229.01	41.77	2.18	1.83	1.71	-0.59	0.01	-0.6	35.49	18.34	0
2000	61	9	138.57	23.52	213.75	38.9	270.64	31.99	2.59	2.13	2.55	-0.59	-0.13	-0.46	37.01	18.76	0
2000	61	10	163.43	12.49	187.6	16.62	197.3	21.37	5.58	5.35	4.58	-2.1	-0.95	-1.15	40.8	18.38	0
2000	61	11	148.97	10.87	155.83	12.21	158.1	22.29	7.67	7.79	5.77	-3.15	-1.22	-1.93	44.82	20.13	0
2000	61	12	138.1	10.3	149.02	12.31	155.75	22.72	8.41	8.6	5.92	-3.32	-1.34	-1.98	46.85	21.25	0
2000	61	13	141.91	6.17	151.63	10.43	153.87	22.23	10.04	9.23	5.57	-2.87	-1.21	-1.66	48.44	21.41	0
2000	61	14	146.56	6.24	156.61	10.15	162.14	17.98	13.1	10.73	7.17	-2.8	-1.13	-1.68	49.4	22.87	0
2000	61	15	143.32	4.05	153.99	8.31	157.09	18.68	16.38	12.17	6.56	-2.26	-0.86	-1.4	47.71	22.24	0
2000	61	16	151.69	5.82	161.41	9.21	157.31	20.21	11.07	8.73	4.88	-1.55	-0.65	-0.89	45.86	21.9	0
2000	61	17	156.62	5.45	166.13	8.69	166.32	17.2	10.75	8.78	5.05	-1.37	-0.68	-0.69	44.23	22.38	0
2000	61	18	153.57	5.44	161.23	6.02	137.02	27.52	7.6	6.94	2.84	0.09	-0.73	0.83	41.45	24.59	0.01
2000	61	19	135.23	4.76	118.9	13.65	21.66	50.31	5.61	4.84	1.42	0.48	-0.2	0.68	40.88	26.72	0
2000	61	20	133.77	2.81	118.21	7.78	92.16	57.67	7.09	5.18	1.26	-0.01	0.24	-0.26	40.82	26.22	0
2000	61	21	144.5	5.01	143.51	11.77	162.55	27.59	3.04	3.31	1.05	-0.47	-0.32	-0.15	40.66	25.93	0
2000	61	22	179.58	12.35	223.66	26.59	140.79	56.23	3.1	1.72	1.15	-0.29	-0.54	0.26	40.4	25.91	0
2000	61	23	241.29	22.04	5.25	46.03	17.43	20.79	2.68	2.12	2.16	0.36	-0.19	0.55	39.82	26.94	0
2000	62	0	47.21	37.2	40.18	8.19	41.86	24.59	1.68	4.33	3.48	0.64	-0.17	0.81	39.56	26.86	0
2000	62	1	279.2	29.17	348.04	27.67	330.22	59.21	11.15	8.16	3.41	2.07	0.66	1.41	41.04	26.97	0
2000	62	2	300.96	11.92	310.75	14.15	309.82	28.98	20.97	18.85	7.9	-1.57	-1.04	-0.54	45.76	26.97	0

2000	62	3	302.59	13.39	312.2	17.79	309.47	34.68	15.31	13.38	5.87	-1.31	-1	-0.31	44.75	23.57	0
2000	62	4	302.01	13.92	314.96	15.82	318	33.91	15.72	13.39	5.6	-1.37	-1.04	-0.33	44.16	22.62	0
2000	62	5	292.4	11.72	302.16	14.05	297.46	31.6	13.25	11.32	5.56	-1.48	-1.07	-0.41	43.85	21.93	0
2000	62	6	289.41	16.9	303.29	17.6	302.37	35.22	10.58	8.89	4.17	-1.24	-1	-0.24	43.27	20.89	0
2000	62	7	288.9	10.51	301.71	13.32	303.16	28.91	17.78	15.53	6.75	-1.81	-1.09	-0.72	43.35	21.94	0
2000	62	8	277.32	12.5	288.62	15.71	288.43	26.62	21.34	19.79	9.26	-2.26	-1.07	-1.19	43.31	20.83	0
2000	62	9	284.04	12.3	295.29	15.21	292.15	27.47	22.64	21.18	9.7	-2.44	-1.1	-1.34	43.31	18.88	0
2000	62	10	291.42	13.05	301.68	15.3	301	30.13	16.63	15.05	7.01	-2.49	-1.16	-1.33	43.11	19.6	0
2000	62	11	284.44	13.36	294.94	16.53	292.69	27.25	17.61	16.41	7.99	-2.76	-1.13	-1.63	43.8	19.9	0
2000	62	12	280.58	11.74	290.59	12.72	291.1	25.16	23.49	21.49	10.31	-2.61	-1.11	-1.5	43.29	19.76	0
2000	62	13	288.64	14.87	301.75	16.7	297.98	30.08	21.49	19.55	8.93	-2.86	-1.17	-1.69	43.25	19.71	0
2000	62	14	289.24	15.59	301.03	17.26	300.73	31.39	21.91	19.59	9.06	-2.5	-1.13	-1.37	42.71	18.61	0
2000	62	15	280.34	12.3	293.84	14.04	294.09	26.87	20.85	19.34	9.22	-2.48	-1.1	-1.38	41.31	20.2	0
2000	62	16	292.6	12.27	303.54	14.6	301.32	26.48	22.76	20.87	9.67	-2.46	-1.16	-1.3	39.76	19.38	0
2000	62	17	302.76	14.08	313.85	16.28	312.47	27.49	23.17	21.15	9.51	-2.18	-1.11	-1.07	37.6	16.62	0
2000	62	18	305.33	16.11	317.31	19.32	317.79	29.63	23.12	20.52	9.24	-2.03	-1.11	-0.92	36.27	15.76	0
2000	62	19	311.2	14.93	321.07	16.59	320.57	28.41	22.05	20.16	9.17	-1.95	-1.08	-0.87	35.39	14.75	0
2000	62	20	308.57	15.58	321.13	16.84	321.78	25.17	18.96	17.47	8.59	-1.98	-1.11	-0.88	35.33	14.99	0
2000	62	21	312.07	13.16	325.71	14.79	325.07	27.43	22.72	21.03	9.2	-1.91	-1.09	-0.82	35.25	16.07	0
2000	62	22	313.68	15.81	326.43	16.89	325.64	29.23	18.64	16.9	7.57	-1.86	-1.08	-0.78	35.2	16	0
2000	62	23	306.27	13.95	316.12	16.04	312.63	33.14	20.11	17.97	7.69	-1.8	-1.08	-0.72	35.3	16.06	0
2000	63	0	308.65	19.51	318.73	21.27	320.56	42.97	15.26	12.83	5.84	-1.82	-1.09	-0.73	35.66	15.75	0
2000	63	1	301.91	26.91	306.98	28.63	310.94	49.31	13.09	11.12	5.72	-1.79	-1.05	-0.74	35.94	15.29	0
2000	63	2	308.01	19.98	315.35	23.44	312	40.83	17.84	15.53	7.37	-1.77	-1.05	-0.72	35.63	14.4	0
2000	63	3	316.37	23.08	328.62	27.21	331.06	39.83	14.04	12.08	6.55	-1.8	-1.06	-0.74	35.15	14.11	0
2000	63	4	308.54	26.84	320.15	29.95	312.1	48.43	13.99	11.54	5.77	-1.78	-1.05	-0.73	34.95	14.22	0
2000	63	5	308.42	16.1	321.63	18.67	324.57	31.05	19.09	17.34	8.02	-1.88	-1.07	-0.81	34.68	14.41	0
2000	63	6	292.88	18.23	303.07	20.63	303.75	39.86	15.31	13.49	6.42	-1.85	-1.08	-0.77	34.47	14.3	0
2000	63	7	296.14	16.76	307.37	20.52	314.48	39.29	15.25	13.29	6.47	-2.14	-1.11	-1.03	34.99	15.74	0
2000	63	8	292.05	24.58	301.2	29.61	304.21	50.55	14.59	12.65	6.69	-2.35	-1.12	-1.23	35.94	16.5	0
2000	63	9	286.51	19.72	296.28	23.03	294.32	46.74	15.09	12.21	6.34	-2.28	-1.11	-1.17	36.94	16.93	0
2000	63	10	295.91	13.15	307.76	15.85	309.25	32.53	21.25	19.42	8.88	-2.68	-1.16	-1.52	37.52	18.1	0
2000	63	11	294.89	14.25	307.07	18.89	304.12	36.57	23.25	21.15	9.39	-2.89	-1.16	-1.73	38.67	18.31	0
2000	63	12	295.63	9.55	306.87	12.5	307.58	27.51	28.78	26.12	11.06	-3.55	-1.27	-2.28	40.28	19.14	0
2000	63	13	293.8	12.26	305.11	15.2	302.94	27.05	25.11	22.88	10.84	-3.42	-1.25	-2.17	41.17	19	0
2000	63	14	296.97	10.92	307.05	13.52	304.9	24.93	24.16	22.33	10.32	-3.1	-1.18	-1.93	42.62	17.31	0
2000	63	15	294.44	14.11	305.94	16.51	301.44	26.75	19.44	17.95	8.86	-2.96	-1.17	-1.78	43.74	14.99	0
2000	63	16	313.07	11.64	325.33	13.67	321.71	26.53	22.94	21.31	9.25	-2.35	-1.07	-1.28	44.28	11.79	0
2000	63	17	312.27	11.61	326.31	12.6	322.24	24.2	22.89	21.67	9.16	-1.88	-1.05	-0.82	43.69	8.67	0
2000	63	18	309.14	13.23	324.68	14.4	322.75	23.09	24.75	22.28	9.93	-1.68	-1.03	-0.65	42.27	5.13	0
2000	63	19	314.73	13.6	326.82	15.99	323.6	24.98	22.5	21.04	9.64	-1.72	-1.04	-0.68	40.77	4.46	0
2000	63	20	311.05	10.56	322.03	12.83	320.02	25.65	28.58	26.08	10.77	-1.71	-1.03	-0.67	39.28	7.95	0
2000	63	21	317.91	17.47	330.81	20.2	330.83	35.42	20.23	18.47	9.17	-1.74	-1.04	-0.69	38.07	9.44	0
2000	63	22	312.14	21.79	320.31	24.49	318.59	43.7	15.1	12.78	6.01	-1.72	-1.07	-0.65	37.11	9.99	0
2000	63	23	314.45	15.39	329.63	16.09	333.3	28.93	17.51	15.79	7.52	-1.66	-1.04	-0.62	36.21	9.66	0
2000	64	0	308.25	12.55	318.11	14.13	319.45	25.47	17.45	15.22	7	-1.72	-1.07	-0.65	35.65	10.18	0
2000	64	1	312.73	10.95	323.41	13.34	323.5	24.39	16.95	15.04	6.58	-1.67	-1.04	-0.63	34.92	10.75	0
2000	64	2	314.61	12.17	326.62	12.73	325.5	27.55	15.75	14.13	5.98	-1.6	-1.03	-0.57	34.66	10.28	0
2000	64	3	309.23	22.42	324.54	21.61	334.62	53.01	9.98	8.96	4.19	-1.54	-1.01	-0.53	33.83	9.63	0

2000	64	4	296.72	19.73	311.07	25.77	321.58	56.72	14.09	11.2	4.69	-1.63	-1.09	-0.54	33.31	9.45	0
2000	64	5	299.67	13.52	313.37	16.24	324.07	34.85	17.23	14.85	6.51	-1.74	-1.1	-0.64	32.91	9.26	0
2000	64	6	319.33	21.14	334.72	21.18	345.04	30.3	13.95	12.42	6.53	-1.64	-0.99	-0.66	32.83	8.06	0
2000	64	7	335.55	24.54	348.48	25.31	339.42	37.46	8.62	7.85	4.98	-1.84	-0.99	-0.85	33.66	8.71	0
2000	64	8	319.63	19.87	335.04	22.73	324.69	31.49	10.61	10.21	5.83	-2.42	-1.09	-1.32	35.1	9.51	0
2000	64	9	317.12	15.85	330.45	17.91	326.1	30.54	11.29	10.59	5.55	-2.92	-1.2	-1.72	36.96	10.97	0
2000	64	10	330.39	14.35	344.47	17.36	336.25	28.51	11.91	11.55	6.14	-3.07	-1.15	-1.92	40.01	11.91	0
2000	64	11	312.92	19.72	327.53	23.47	332.45	36.67	9.86	8.84	5.19	-3.2	-1.26	-1.94	43.28	11.57	0
2000	64	12	285.12	17.79	295.32	22.25	295.4	35.43	10.02	8.96	5.38	-3.43	-1.29	-2.14	45.68	12.62	0
2000	64	13	289.19	22.64	297.18	27.21	300.69	37.67	11.11	10.15	5.32	-3.6	-1.36	-2.24	47.66	15.64	0
2000	64	14	291.77	19.97	304.53	25.06	307.8	35.95	11.37	10.06	5.32	-3.16	-1.29	-1.87	49.12	16.74	0
2000	64	15	274.6	19.14	283.62	22.4	283.91	29.56	14.15	12.84	6.52	-2.86	-1.15	-1.71	49.74	17.61	0
2000	64	16	282.96	14.42	295.3	18.94	295.69	29.11	13.78	12.88	6.71	-2.38	-1.04	-1.34	49.98	17.11	0
2000	64	17	295.5	12.07	308.18	16.32	311.46	31.56	14.03	12.09	5.14	-1.85	-1.12	-0.73	48.85	17.67	0
2000	64	18	283.3	14.81	293.27	16.74	292.9	30.52	13.6	11.67	5.79	-1.55	-1.03	-0.52	47.43	18.83	0
2000	64	19	288.3	15.63	293.38	18.92	292.12	33.96	12.87	11.64	5.44	-1.49	-0.97	-0.52	46.98	19.52	0
2000	64	20	305.26	18.08	315.43	20.49	315.35	40.24	11.11	9.71	4.7	-1.43	-1.01	-0.42	47.06	18.38	0
2000	64	21	302.58	11.64	308.05	15.63	299.36	37.3	9.42	8	3.23	-1.06	-0.96	-0.11	46.3	17.55	0
2000	64	22	271.31	11	259.58	12.76	213.97	20.9	7.9	6.9	3.5	-0.09	-0.7	0.61	44.71	17.45	0
2000	64	23	227.03	7.82	217.98	6.68	169.64	8.58	6.39	6.29	2.95	0.59	-0.34	0.92	43.45	17.68	0
2000	65	0	225.3	6.13	209.9	9.85	172.91	43.78	6.56	4.51	1.74	0.66	0.43	0.23	43.14	17.47	0
2000	65	1	212.56	7.86	207.74	12.98	151.48	74.85	7.18	6.14	1.83	1.98	0.76	1.22	41.13	17.42	0
2000	65	2	228.16	6.47	233.54	9.28	131.55	13.12	8.62	4.92	2	2.96	1.51	1.45	40.63	17.04	0
2000	65	3	259.99	12.12	236.89	12.13	146.78	46.96	8.17	5.83	1.81	4.21	1.96	2.24	40.31	16.57	0
2000	65	4	284.52	16.01	284.84	22.36	260.04	60.31	12.88	9.23	4	1.57	-0.25	1.82	42.7	17.66	0
2000	65	5	294.21	14.97	305.02	16.88	306.22	35.04	16.01	13.4	6.01	-1.53	-1.01	-0.52	44.43	19.42	0
2000	65	6	294.77	19.69	306.31	21.81	313.02	39.71	12.99	11.03	5.34	-1.72	-1.07	-0.65	43.51	20.9	0
2000	65	7	292.85	11.62	299.61	12.61	301.82	28.15	15.9	13.53	5.71	-1.88	-1.09	-0.79	42.73	21.55	0
2000	65	8	291.44	9.63	301.2	12.46	298.61	26.69	18.4	16.55	7.37	-2.49	-1.12	-1.37	43.7	23.15	0
2000	65	9	305.69	13.72	315.03	16.9	316.36	31.15	14.85	13.2	6.5	-2.87	-1.14	-1.73	45.82	24.19	0
2000	65	10	311.73	15.59	326.18	18.15	330.43	27.06	13.92	12.77	6.58	-2.66	-1.15	-1.51	47.32	24.11	0
2000	65	11	305.37	15.14	318.77	17.83	317.28	33.13	17.45	16.34	7.37	-2.48	-1.12	-1.37	48.1	24.13	0
2000	65	12	303.43	14.81	314.95	17.06	316.99	28.69	18.59	16.79	7.54	-2.48	-1.12	-1.37	47.57	24.62	0
2000	65	13	316.32	13.53	327.31	14.7	327.65	24.28	21.23	19.87	8.59	-2.25	-1.04	-1.2	47.74	24.92	0
2000	65	14	317.22	16.29	329.12	17.25	328.39	25.06	25.02	23.32	10.59	-2.39	-1.07	-1.31	47.53	24.61	0
2000	65	15	338.56	13.77	350.62	15.41	352.92	22.74	19.1	17.87	9.73	-2.18	-1.01	-1.17	46.14	25.78	0
2000	65	16	337.01	17.16	347.1	19.05	350.62	24.8	15.44	14	7.91	-2.17	-1.06	-1.11	46.1	24.65	0
2000	65	17	330.42	16.08	342.8	16.92	342.47	26.39	16.45	15.31	7.79	-1.88	-1.02	-0.86	45.74	23.04	0
2000	65	18	336.75	20.2	348.77	22.43	343.43	27.76	16.44	14.13	8.12	-1.84	-1.02	-0.82	45.32	22.45	0
2000	65	19	321.67	11.34	332.7	12.71	329.9	21.45	23.3	21.74	8.78	-1.64	-1.01	-0.63	44.57	21.82	0
2000	65	20	318.37	13.78	330.81	16.4	326.31	27.87	19.95	18.06	8.24	-1.74	-1.02	-0.72	44.14	21.35	0
2000	65	21	313.68	15.18	326.53	15.06	323.66	30.43	17.29	15.58	6.81	-1.77	-1.04	-0.74	43.75	20.6	0
2000	65	22	312.21	18.35	326.59	20.4	331.01	27.72	13.04	11.39	5.54	-1.79	-1.04	-0.75	43.49	19.89	0
2000	65	23	305.05	13.75	315.58	15.38	320.79	26.12	12.7	11.39	5.29	-1.81	-1.1	-0.71	43.16	19.67	0
2000	66	0	296.77	11.57	306.4	14.86	305.02	33.37	11.81	10.09	4.32	-1.78	-1.14	-0.64	42.72	19.76	0
2000	66	1	296.6	10.39	304.61	13.38	305.04	35.55	13.41	11.32	4.88	-1.8	-1.14	-0.67	42.4	19.6	0
2000	66	2	298.92	10.57	306.7	14.2	306.24	32.73	12.84	10.23	4.23	-1.67	-1.19	-0.48	41.83	19.26	0
2000	66	3	307.73	12.91	317.68	14.08	330.02	29.25	9.98	8.76	3.64	-1.34	-1.12	-0.22	40.97	18.48	0
2000	66	4	303.5	11.27	308.92	14.08	311.12	34.79	11.82	9.43	3.56	-1.22	-1.07	-0.15	40.38	17.73	0

2000	66	5	298.84	11.81	306.66	15.04	295.36	36.07	12.18	9.33	3.77	-0.87	-0.96	0.09	39.64	16.99	0
2000	66	6	303.06	10.48	317.46	11.58	319.99	30.05	16.04	13.77	5.59	-1.4	-0.97	-0.43	39.76	17.59	0
2000	66	7	319.54	18.41	338.02	18.85	342.09	28.73	12.36	11.71	5.87	-1.87	-1.01	-0.87	40.23	18.46	0
2000	66	8	317.63	11.6	332.77	13.34	328.76	25.9	17.54	17.04	7.54	-2.37	-1.06	-1.31	41.47	19.08	0
2000	66	9	309.6	10.55	320.97	13.08	321.47	28.13	17.52	17.05	7.61	-2.85	-1.14	-1.72	43.33	19.08	0
2000	66	10	312.52	19.41	322.99	20.05	327.09	33.06	14.51	13.23	6.36	-3.16	-1.2	-1.96	45.57	19.21	0
2000	66	11	328.83	14.31	339.65	16.74	339.59	25.97	20.45	19.06	9.35	-2.99	-1.14	-1.85	47.24	17.79	0
2000	66	12	338.95	9.08	349.6	12.1	349.16	23.54	22.24	21.26	9.86	-3.07	-1.12	-1.96	48.94	16.85	0
2000	66	13	344.59	9.62	355.21	13.5	357.06	24.39	18.77	17.31	8.93	-3.17	-1.17	-2	50.28	17.26	0
2000	66	14	339.17	12.2	351.05	15.14	348.64	26.63	18.39	17.31	8.64	-3.01	-1.14	-1.87	51.14	16.87	0
2000	66	15	342.87	9.29	352.89	12.21	351.6	22.06	17.42	16.76	8.24	-2.67	-1.07	-1.6	51.4	16	0
2000	66	16	349.78	10.13	0.26	11.19	0.7	21.09	13.91	13.03	6.67	-2.18	-0.98	-1.2	51.27	15.66	0
2000	66	17	344.68	6.68	356.19	11.5	357.11	19.02	13.8	12.94	5.79	-1.25	-0.85	-0.39	50.12	15.07	0
2000	66	18	339.81	8.4	352.13	9.72	354.39	18.82	14.28	13.13	6.17	-1.13	-0.94	-0.2	49.22	14.29	0
2000	66	19	344.16	5.66	0.01	9.22	13.88	17.95	11.22	9.33	4.2	-0.47	-0.6	0.14	47.07	14.55	0
2000	66	20	332.65	16.63	355.14	14.28	2.45	24.07	8.54	7.8	4	-0.62	-0.76	0.14	46.04	15.21	0
2000	66	21	323.11	12.91	343.35	12.56	345.83	22.49	12.06	11.06	5.18	0.17	-0.75	0.92	43.86	17.44	0
2000	66	22	327.98	11.61	347.61	15.12	353.66	24.42	11.07	10.35	4.85	-0.7	-0.75	0.05	43.58	16.87	0
2000	66	23	329.54	9.46	358.7	11.53	359.69	64.29	5.85	5.97	1.97	1.25	-0.56	1.81	40.6	16.1	0
2000	67	0	316.16	9.71	340.9	15.37	18.81	26.48	7.53	5.19	2.82	2.02	-0.33	2.35	39.02	14.97	0
2000	67	1	349.77	11.08	22.09	8.55	41.11	58.2	6.9	6.02	1.8	3.94	0.83	3.11	35.97	14.23	0
2000	67	2	326.63	10.74	341.04	25.02	30.91	39.61	5.48	4.14	2.72	4.83	0.74	4.09	33.82	14.33	0
2000	67	3	343.41	14.08	21.75	8.95	34.19	20.77	5.72	5.79	3.98	4.38	0.47	3.92	33.42	13.37	0
2000	67	4	287.45	22.83	351.74	33.14	47.89	47.13	3.61	2.58	2.9	4.47	0.57	3.9	32.47	13.55	0
2000	67	5	224.77	37.57	359.31	40.69	25.57	22.82	2.05	1.99	2.43	4.99	1.8	3.19	31.7	13.6	0
2000	67	6	202.79	33.61	353.53	21.98	28.06	30.53	2.19	4.08	2.31	4.29	2.27	2.02	30.95	13.62	0
2000	67	7	202.62	10.28	190.05	19.81	61.93	49.62	4.86	2.84	1.4	3.42	2.12	1.3	31.89	15.2	0
2000	67	8	193.03	6.57	172.67	32.38	201.64	53.54	6.31	2.45	2.26	0.59	1.09	-0.5	35.54	16.7	0
2000	67	9	149.54	13.89	167.04	21.84	234.18	36.08	4.51	3.17	2.78	-0.61	-0.24	-0.37	38.26	19.71	0
2000	67	10	146.6	13.71	183.42	16.7	237.97	17.06	4.43	4.09	4	-0.59	-0.4	-0.19	42.16	20.39	0
2000	67	11	147.18	14.05	189.28	20.36	233.74	25.67	4.6	4.73	4.62	-0.86	-0.47	-0.39	47.69	21.07	0
2000	67	12	149.38	10.63	173.04	15.07	206.76	23.35	6.78	6.81	5.55	-1.61	-0.93	-0.68	54.15	22.12	0
2000	67	13	149.48	10.21	157.34	11.55	165.09	18.31	6.86	7.13	6.19	-3.16	-1.44	-1.72	59.08	23.12	0
2000	67	14	139.49	16.09	147.97	19.11	158.24	30.54	5.08	5.45	4.47	-2.87	-1.33	-1.54	61.37	24.63	0
2000	67	15	147.88	21.2	157.44	22.04	190.32	32.53	3.74	3.93	3.4	-1.73	-0.97	-0.76	62.36	26.44	0
2000	67	16	152.64	16.92	172.32	61.71	296.72	47.31	4.15	2.46	2.17	0.21	0.13	0.08	62.38	25.6	0
2000	67	17	217.4	9.28	204.82	22.4	217.46	45.67	8.13	4.69	1.62	1.3	0.35	0.95	62	23.92	0
2000	67	18	243.03	11.71	255.97	29.4	132.97	65.43	7.36	5.06	2.12	1.98	-0.5	2.47	61.26	25.5	0
2000	67	19	198.56	7.27	179.72	10.7	206.51	34.25	8.36	5.38	2.38	4.42	0.51	3.91	57.46	26.62	0
2000	67	20	184.74	14.18	142.98	35.24	18.65	51.96	4.86	3.29	2.19	3.13	0.25	2.87	56.44	27.31	0
2000	67	21	166.97	41.89	95.83	63.03	49.92	39.55	3.53	3.15	2.53	2.52	0.54	1.98	55.67	28.07	0
2000	67	22	355.56	30.53	36.65	35.69	46.72	51.86	4.79	4.95	4.24	4.48	0.22	4.27	50.07	33.23	0.06
2000	67	23	216.38	18.05	204.61	52.38	27.42	61.45	4.35	2.12	2.38	5.51	1.54	3.96	47.2	34.25	0
2000	68	0	237.4	29.27	310.76	28.82	53.09	41.62	3.84	4.67	3.22	4.46	1.82	2.64	47.52	34.96	0
2000	68	1	355.68	41.26	23.02	7.93	34	41.84	3.1	6.78	4.79	5.52	2.13	3.39	47	35.99	0
2000	68	2	270.78	21.04	358.52	26.69	74.2	52.41	3.03	2.54	1.96	5.75	3.22	2.52	43.73	32.38	0
2000	68	3	310.62	34.75	21.34	6.15	29.71	11.89	2.93	6.9	4.29	7.79	4.78	3.01	36.89	26.62	0
2000	68	4	344.43	44.32	16.83	7.54	18.19	20.63	2.41	8.27	4.15	7.93	5.61	2.32	34.6	23.15	0
2000	68	5	20.37	6.27	19.31	5.51	37.53	22.89	7.18	8.49	4.02	7.47	5.4	2.06	36.35	24.64	0

2000	68	6	309.71	16.61	356.23	21.16	27.95	18.98	4.67	4.66	2.78	8.11	5.33	2.78	30.68	19.02	0
2000	68	7	211.45	24.89	63.83	34.2	43.07	23.5	2.44	3.7	3.4	6.03	4.03	1.99	35.92	25.17	0
2000	68	8	282.87	60.28	42.32	33.65	36.96	15.69	1.69	2.32	3.21	3.88	2.39	1.49	43	32.49	0
2000	68	9	47.98	15.79	39.53	25.41	13.24	26.42	4.13	3.01	2.72	0.12	0.81	-0.69	48.4	36.28	0
2000	68	10	113	38.45	265.39	52.6	247.1	35.23	2.45	2.46	2.67	0.17	0.91	-0.73	52.66	38.19	0
2000	68	11	177.71	12.26	195.17	17.38	234.35	25.27	3.76	3.66	3.17	-0.84	-0.22	-0.62	56.47	38.85	0
2000	68	12	150.08	12.09	167.13	17.51	181.65	26.93	6.53	6.06	5.3	-2.6	-1.19	-1.41	60.45	37.72	0
2000	68	13	141.81	7.58	156.87	9.77	168.39	13.88	9.11	8.11	8.19	-2.81	-1.34	-1.47	61.19	37.8	0
2000	68	14	149.46	6.08	163.48	9.81	163.22	15.9	10.59	9.37	7.13	-3.11	-1.4	-1.72	62	37.52	0
2000	68	15	155.66	5.41	166.18	9.34	162.81	15.84	10.4	10.01	6.93	-2.79	-1.18	-1.61	60.96	37.5	0
2000	68	16	152.86	4.25	167.23	7.39	167.48	13.42	11.6	10.97	7.4	-1.32	-0.14	-1.18	58.08	35.34	0
2000	68	17	146.24	2.47	165.49	5.92	170.06	11.22	13.36	10.23	6.65	0.59	0.75	-0.16	54.68	33.58	0
2000	68	18	145.69	2.47	159.04	4.62	167.08	11.26	14.15	10.19	6.28	0.51	0.16	0.36	51.84	32.06	0
2000	68	19	152.08	2.73	158.68	4.89	160.07	13.36	9.98	8.59	4.33	0.01	-0.1	0.11	49.87	31.11	0
2000	68	20	150.48	2.02	160.63	4.48	163.3	12.54	8.55	6.82	3.41	-0.26	-0.35	0.09	48.44	30.68	0
2000	68	21	137.29	4.89	153.36	9.05	178.28	15.76	7.1	4.59	2.61	-1.2	-0.7	-0.5	48	30.91	0
2000	68	22	125.25	8.61	145.32	14.26	180.78	15.4	4.11	3.04	2.38	-0.95	-0.85	-0.1	46.59	30.52	0
2000	68	23	122.51	11.48	127.42	16.37	190.22	20.44	3.47	2.36	1.75	-1.32	-0.88	-0.44	45.78	29.75	0
2000	69	0	143.49	13.61	162.15	10.13	174.23	22.1	4.09	3.65	2.08	-1.31	-0.81	-0.5	45.24	30.18	0
2000	69	1	160.54	6.35	180.98	8.77	182.46	12.55	5.44	5.63	3.36	-1.26	-0.36	-0.9	44.63	31.9	0
2000	69	2	154.48	6.73	173.07	9.62	179.99	15.74	4.01	3.94	2.67	-0.59	0.56	-1.15	43.75	32.91	0
2000	69	3	108.34	20.69	107.86	24.87	108.46	46.55	2.24	2.25	1.55	-0.66	0.9	-1.56	42.91	32.75	0
2000	69	4	133.99	40.58	60.61	27.22	359.31	48.4	1.01	1.59	1.32	-0.52	0.52	-1.04	1000	16.34	0
2000	69	5	128.88	65.19	61.87	32.12	346.76	31.6	1.12	1.72	1.76	0.8	1.5	-0.7	1000	11.72	0
2000	69	6	114.66	52.59	45.32	35.53	7.85	41.65	1.81	2.15	1.7	1.08	1.24	-0.16	1000	0.06	0
2000	69	7	136	29.61	71.99	40.65	340.99	47.3	1.25	1.29	1.2	7.13	8.15	-1.03	1000	8.11	0
2000	69	8	165.05	22.24	121.56	66.26	301.43	29.38	1.74	1.42	1.52	4.95	6.81	-1.86	1000	10.86	0
2000	69	9	160.56	17.24	189.28	17.85	202.39	24.92	3.23	3.55	2.94	3.15	3.84	-0.68	35.56	18.9	0
2000	69	10	169.3	18.33	173.76	16.27	177.27	24.47	4.11	3.97	3.55	0.6	2.63	-2.03	45.32	35.48	0
2000	69	11	169.57	18.66	201.28	16.89	214.28	23.39	4.4	4.96	4.41	-0.53	0.53	-1.06	46.95	36.89	0
2000	69	12	155.6	12.27	208.56	15.73	239.57	20.5	4.66	5.2	4.8	-0.01	0.47	-0.48	47.97	37.33	0
2000	69	13	149.07	8.2	187.46	16.02	217.42	19.59	7.42	6.21	4.99	-0.88	0.6	-1.48	53.97	39.33	0
2000	69	14	188.95	13.53	209.06	16.98	227.07	38.86	14.17	8.39	3.4	3.17	1.08	2.1	55.45	39.71	0.02
2000	69	15	198.65	32.29	171.8	42.33	156.23	33.62	12.84	10.24	4.66	1.5	0.06	1.44	60.61	46.83	0.03
2000	69	16	190.5	7.15	191	9.64	178.62	35.41	14.65	10.83	4.35	0.92	0.22	0.7	64.21	46.41	0
2000	69	17	198.88	4.26	206.26	6.54	195.39	28.57	17.86	14.02	5.39	1.19	-0.22	1.41	66.11	46.23	0
2000	69	18	199.05	2.99	209.99	4.75	188.23	15.89	17.73	11.75	3.71	1.76	0.43	1.33	65.76	45.54	0
2000	69	19	202.13	6.17	200.19	11.47	145.93	25.69	11.32	6.65	2.49	2.25	0.4	1.85	63.99	44.18	0
2000	69	20	284.51	13.39	291.74	15.5	289.4	44.28	17.87	15.2	5.99	0.12	-0.54	0.67	60.65	45.8	0
2000	69	21	310.87	21.43	333.71	27.12	18.55	60.44	7.33	6.07	3.24	-0.79	-0.8	0.01	60.25	45.51	0
2000	69	22	299.54	14.24	315.6	15.43	331.68	47.7	8.28	6.53	2.71	-0.14	-0.81	0.67	59.15	45.04	0
2000	69	23	271.52	16.08	259.91	20.11	214.65	57.61	6.5	5.33	2.37	1.51	-0.67	2.18	56.98	43.9	0
2000	70	0	282.73	11.18	287.42	13.74	269.43	50.71	15.77	12.2	4.24	1.65	-0.6	2.25	56.8	42.29	0
2000	70	1	291.3	11.39	302.34	13.49	302.55	26.79	21.06	18.25	7.99	-1.35	-1.01	-0.34	58.48	39.21	0
2000	70	2	287.27	13.31	298.09	15.51	295.38	30.49	17.23	14.56	6.72	-1.36	-1.01	-0.34	56.93	37.31	0
2000	70	3	292.98	12.31	303.79	13.13	306.74	27.53	17.5	14.83	6.27	-1.43	-1.07	-0.36	56.07	37.44	0
2000	70	4	307.26	17.05	318.96	17.07	322.23	26.03	12.99	11.66	5.68	-1.48	-1.05	-0.44	54.96	37.35	0
2000	70	5	300.01	9.45	311.84	11.42	309.25	21.88	21.01	18.43	8.36	-1.61	-1.05	-0.55	53.39	35.42	0
2000	70	6	284.13	9.76	293.96	11.36	288.52	27.28	19.87	17.91	7.92	-1.67	-1.06	-0.61	50.67	32.26	0

2000	70	7	283.08	8.48	293.25	11.84	295.26	28.71	21.48	19.28	8.13	-1.83	-1.02	-0.81	48.26	30.2	0
2000	70	8	331.98	13.03	345.42	13.88	349.02	22.71	17.86	17.08	8.36	-1.97	-1	-0.96	47.09	30.02	0
2000	70	9	351.48	12.35	4.42	13.34	0.87	19.97	13.25	12.37	7.3	-2.52	-1.08	-1.43	45.84	29.41	0
2000	70	10	354.3	12.3	4.87	10.04	5.71	18.54	13.35	12.8	8.52	-3.07	-1.19	-1.88	46.21	29.74	0
2000	70	11	356.15	11.87	5.35	9.4	7.42	18.59	13.94	13.17	8.04	-3.21	-1.25	-1.96	45.96	28.38	0
2000	70	12	355.78	13.03	3.68	11.21	1.4	19.44	13.19	12.95	7.68	-3.34	-1.22	-2.12	45.12	27.27	0
2000	70	13	1.74	13.14	7.13	10.45	5.05	17.76	13.2	12.39	8.19	-3.2	-1.28	-1.92	45.51	27.12	0
2000	70	14	356.8	9.8	2.03	11.56	2.57	19.82	11.42	10.97	6.74	-3.18	-1.24	-1.94	46.17	26.99	0
2000	70	15	359.07	12.29	3.85	11.8	2.67	20.64	8.92	8.48	6.31	-2.97	-1.3	-1.67	46.87	27.17	0
2000	70	16	6.99	10.33	12.57	12.78	6.28	17.98	9.15	8.78	6.2	-2.26	-1.07	-1.19	47.02	26.06	0
2000	70	17	4.78	13.05	9.12	9.03	5.84	17.19	10.86	10.36	6.12	-1.86	-0.89	-0.96	46.21	25.57	0
2000	70	18	353.19	9.75	358.67	9.71	4.56	19.75	11.41	11.16	5.41	-1.65	-0.89	-0.76	44.66	24.2	0
2000	70	19	0.33	11.11	5.55	8.63	1.91	16.37	10.07	10	5.8	-1.82	-1	-0.82	43.53	23.05	0
2000	70	20	0.4	12.34	2.71	8.93	3.02	16.54	10.95	10.46	5.47	-1.6	-0.93	-0.67	42.78	22.56	0
2000	70	21	4.35	9.69	12.53	11.46	11.11	16.95	10.79	9.2	5.86	-1.82	-0.95	-0.87	42.6	22.13	0
2000	70	22	18.1	8.68	23.06	6.09	30.75	10.35	9.42	8.89	6.73	-1.33	-0.62	-0.71	41.56	21.14	0
2000	70	23	86.86	16.83	44.99	9.93	36.52	13.44	6.42	6.67	4.87	-0.63	-0.09	-0.55	41.46	21.15	0
2000	71	0	111.55	13.67	68.56	18.57	39.98	26.2	4.74	3.89	2.92	-1.03	-0.45	-0.58	41.59	22.68	0
2000	71	1	97.82	15.07	81.1	22.82	60.61	28.68	7.75	6.22	3.54	-1.4	-0.64	-0.76	41.28	24.57	0
2000	71	2	106.02	10.19	112.52	11.71	111.75	34.13	8.33	7.75	3.54	-2	-1.03	-0.97	41.14	26.29	0
2000	71	3	99.85	9.91	107.01	12.71	103.34	35.15	8.35	7.63	3.48	-1.99	-1.02	-0.97	40.41	24.84	0
2000	71	4	110.58	12.09	123.87	13.29	127.66	35.94	8.57	7.62	3.15	-2.01	-1.04	-0.97	39.82	23.93	0
2000	71	5	98.58	13.37	109.92	16.59	108.46	34.16	8.17	7.07	3.34	-2	-1.06	-0.94	39.44	23.41	0
2000	71	6	91.11	17.04	100.99	22.25	93.43	42.95	7.32	6.01	2.78	-2.01	-1.04	-0.96	39.18	23.49	0
2000	71	7	90.21	13.11	103.04	16.97	108.24	43.14	8.45	7.03	3.27	-2.03	-1.05	-0.98	38.91	23.44	0
2000	71	8	107.95	12.52	120.78	14.93	121.5	33.19	10.34	8.81	3.97	-1.89	-0.97	-0.92	38.55	23.95	0
2000	71	9	103.59	13.77	113.01	17.92	107.81	40.44	9.52	7.57	3.63	-1.79	-0.86	-0.93	38.07	24.82	0
2000	71	10	67.45	16.54	72.66	16.63	57.5	33.93	8.78	6.93	3.95	-1.65	-0.73	-0.92	37.89	25.61	0.07
2000	71	11	63.64	12.29	71.17	16.03	58.17	27.83	10.08	8.29	4.69	-1.77	-0.76	-1.01	37.9	25.62	0
2000	71	12	67.23	14.36	73.64	17.99	62.98	30.67	9.56	7.37	4.01	-1.63	-0.69	-0.94	37.79	25.66	0.03
2000	71	13	65.37	14.82	68.04	17.79	47.09	28.04	9.34	7.22	4.17	-1.59	-0.63	-0.96	37.69	25.61	0.08
2000	71	14	50.62	13.46	43.87	18.2	23.37	23.99	8.07	5.83	3.61	-1.33	-0.44	-0.89	37.52	26.09	0.22
2000	71	15	57.47	15.79	54.17	16.55	33.4	27.74	9.8	7.39	4.46	-1.39	-0.46	-0.94	37.71	26.22	0.12
2000	71	16	31.72	12.16	29.02	13.38	17.9	19.49	10.73	8.53	5.29	-1.19	-0.37	-0.82	37.97	26.82	0.14
2000	71	17	9.46	11.23	13.45	10.44	12.06	16.66	12.93	10.6	6.48	-1.34	-0.45	-0.89	38.4	27.34	0
2000	71	18	4.66	11.27	11.23	10.79	10.22	16.01	14.24	11.75	7.13	-1.33	-0.38	-0.95	38.17	27.33	0
2000	71	19	4.84	9.78	12.59	10.78	11.17	16.52	13.21	10.82	6.68	-0.96	0.03	-1	37.79	27.38	0
2000	71	20	1	12.46	9.18	12.47	11.6	17.77	12.72	10.98	6.58	-1.05	-0.01	-1.04	37.94	27.33	0
2000	71	21	1.2	13.38	8.87	12.75	16.48	15.92	13.97	11.5	6.98	-1.09	-0.02	-1.08	38.2	27.65	0
2000	71	22	358.63	11.49	3.74	14.78	12.3	23.26	13.49	11.31	6.63	-1.04	-0.02	-1.02	38.35	27.69	0.02
2000	71	23	5.28	12.08	11.22	13.44	10.05	21.14	11.02	9.07	5.4	-0.81	0.09	-0.9	38.34	27.44	0.04
2000	72	0	1.42	21.92	5.33	21.51	359.83	32.68	12.47	11.19	5.8	-0.66	0.06	-0.72	38.74	27.67	0.03
2000	72	1	8.85	12.94	11.25	14.42	10.85	21.89	8.98	7.39	4.61	-0.87	-0.06	-0.81	39.34	28.1	0
2000	72	2	4.51	20.2	4.08	20.57	350.52	42.15	5.06	4.37	2.78	-2.88	-2.49	-0.39	34.25	19.29	0
2000	72	3	30.2	9.89	26.38	11.91	355.45	17.71	5.21	4.1	2.42	-0.99	1.48	-2.47	21.63	8.34	0
2000	72	4	19.85	19.45	11.4	23.36	348.25	53.6	3.65	3.04	1.84	-2.02	-1.68	-0.35	24.76	9.79	0.01
2000	72	5	344.28	10.99	350.03	11.65	354.1	18.12	4.87	4.77	2.68	-0.3	0.46	-0.76	30.04	18.12	0.01
2000	72	6	349.07	15.82	16.35	13.99	49.98	21.12	4.32	4.77	3.46	2.18	1.68	0.5	32.85	22.65	0.04
2000	72	7	336.99	15.59	4.97	18.57	26.09	50.8	5.56	5.29	3.68	0.2	0.19	0.01	32.57	20.62	0.01

2000	72	8	344.48	21.64	11.44	12.14	15.95	14.92	6.53	8.39	6.06	-0.2	-0.06	-0.13	37.35	26.49	0
2000	72	9	351.52	19	28.99	18.04	36.93	25.09	7.11	5.76	4.13	-0.1	0.58	-0.68	39.23	28.44	0.01
2000	72	10	265.94	32.78	209.1	44.11	151.93	46.73	6.43	4.78	3.4	-0.05	0.13	-0.18	42.03	30.32	0
2000	72	11	310.53	23.22	326.21	26.51	338.62	45.12	9.55	8.12	4.44	-1.84	-0.94	-0.89	45.62	31.43	0
2000	72	12	311.1	21.6	327.65	24.62	333.8	40.64	11.03	9.46	4.96	-2.07	-1.03	-1.04	45.98	32.16	0
2000	72	13	283.61	17.96	293.22	19.86	292.2	31.47	13.93	12.77	6.04	-1.91	-1.03	-0.88	46.15	30.61	0
2000	72	14	282.63	8.51	293.84	11.15	294.17	24.76	21.8	20.03	9	-2.08	-1.08	-0.99	43.16	27.49	0
2000	72	15	287.58	9.44	298.06	12.34	298.72	28.86	24.44	21.91	9.38	-2.16	-1.14	-1.03	41.9	24.82	0
2000	72	16	293.16	8.83	304.47	12.18	304.78	30.87	31.87	27.98	11.28	-2.18	-1.15	-1.03	39.78	22.28	0
2000	72	17	315.11	11.31	328.41	13.34	328.44	29.71	25.55	23.87	9.24	-1.95	-1.02	-0.93	37.88	21.59	0
2000	72	18	318.8	10.47	333.45	11.95	333.77	25.56	26.91	24.99	10.44	-1.82	-0.95	-0.87	35.58	21.21	0
2000	72	19	327.8	15.23	341.16	17.95	339.12	26.2	21.43	19.51	9.6	-1.68	-0.9	-0.78	34.91	20.76	0
2000	72	20	313.24	14.58	326.96	16.62	325.41	29.25	16.85	15.11	7.1	-1.74	-1.05	-0.69	36.11	16.54	0
2000	72	21	310.65	11.73	322.03	14.01	322.27	22.1	19.3	17.54	7.79	-1.74	-1.06	-0.68	36.07	12.95	0
2000	72	22	315.5	11.26	326.41	11.83	323.96	22.82	21.73	20.22	8.89	-1.64	-1.03	-0.61	35.97	9.85	0
2000	72	23	319.66	20.51	332.09	23.85	327.22	42.63	16.39	14.41	7.31	-1.64	-1.02	-0.62	35.52	8.14	0
2000	73	0	312.69	25.34	318.87	25.47	315.41	39.54	14.53	12.72	6.67	-1.65	-1.02	-0.63	35.07	8.13	0
2000	73	1	287.68	20.96	292.51	21.5	282.17	26.34	14.5	13.32	6.74	-1.56	-1.02	-0.53	34.2	8.73	0
2000	73	2	288.3	10.06	294.4	11.1	290.32	24.07	16.82	15.57	7.05	-1.64	-1.05	-0.59	32.99	10.34	0
2000	73	3	296.52	13.18	301.24	14.91	303.61	34.11	13.76	11.75	5.15	-1.62	-1.1	-0.52	32.93	10.25	0
2000	73	4	292.97	9.93	298.83	12.73	297.56	34.57	14.67	12.78	5.32	-1.65	-1.13	-0.52	32.64	10.05	0
2000	73	5	292.82	6.34	300.39	10.3	298.77	32.46	18.12	15.09	5.3	-1.66	-1.11	-0.55	32.18	10.66	0
2000	73	6	294.45	6.32	302.85	9.78	300.54	24.96	18.37	15.26	5.97	-1.92	-1.2	-0.72	32.09	12.11	0
2000	73	7	297.3	8.9	304.53	12.54	306	25.71	14.77	12.4	5.39	-2.36	-1.3	-1.05	32.78	12.52	0
2000	73	8	295.16	12.07	305.75	15.18	299.24	30.08	13.43	11.75	5.55	-2.85	-1.27	-1.58	34.76	13.28	0
2000	73	9	307.16	12.55	317.17	15.33	315.71	28.78	15.91	14.79	7.05	-3.11	-1.22	-1.9	36.39	14.32	0
2000	73	10	306.13	18.22	322.45	21.71	322.52	35.18	14.85	13.96	6.71	-2.94	-1.14	-1.79	37.21	14.38	0
2000	73	11	296.37	20.17	312.16	20.21	313.05	36.91	13	12.43	6.57	-3.13	-1.15	-1.98	38.93	15.14	0
2000	73	12	308.26	19.77	324.82	19.76	324.6	29.28	12.99	12.34	5.95	-3.47	-1.23	-2.23	41.15	15.7	0
2000	73	13	304.49	13.64	317.59	16.1	313.37	30.73	17.95	16.97	8.11	-3.47	-1.18	-2.29	42.43	15.82	0
2000	73	14	307.11	9.46	318.47	12.41	321.49	25.99	17.77	16.91	7.4	-3.5	-1.21	-2.29	43.34	16.76	0
2000	73	15	304.84	10.57	317.23	13.07	317.07	25.47	17.11	16.15	7.22	-3.12	-1.18	-1.94	43.7	16.68	0
2000	73	16	308.1	12.41	322.42	14.72	323.14	26.69	15.51	14.72	6.47	-2.73	-1.15	-1.58	43.73	16.08	0
2000	73	17	301.67	12.96	313.38	16.16	318.08	31.68	10.16	9.14	4.13	-2.1	-1.17	-0.93	43.3	15.14	0
2000	73	18	298.33	10.75	320.68	11.5	329.74	36.06	7.34	6.6	2.34	-0.69	-0.86	0.16	41.72	14.76	0
2000	73	19	323.05	11.33	338.52	11.32	6.14	54.69	5.99	5.12	2.2	0.27	-0.83	1.11	40.05	15.15	0
2000	73	20	327.85	5.15	337.75	15.37	59.87	40.15	5.89	4.15	2.05	1.93	-0.25	2.19	37.71	15.2	0
2000	73	21	335.85	6.69	5.28	12.83	45.03	46.6	3.66	2.82	1.99	3.61	1.35	2.27	35.37	15.68	0
2000	73	22	41.24	32.75	23.29	36.85	27.99	51.49	2.29	3.1	1.86	3.75	1.77	1.98	33.78	15.12	0
2000	73	23	248.88	34.4	353.91	13.25	23.89	32.28	2.21	2.84	2.32	3.24	1.28	1.96	33.01	14.86	0
2000	74	0	194.79	18.41	3.16	19.91	2.64	42.96	2.69	2.05	1.53	3.62	1.5	2.13	31.99	15.11	0
2000	74	1	193.72	47.33	58.86	41.19	18.03	13.4	1.22	1.43	2.1	2.82	0.85	1.96	31.62	15.28	0
2000	74	2	172.58	39.46	24.04	30.56	29.21	16.39	1.5	2.68	2.47	2.56	0.92	1.63	31.47	14.61	0
2000	74	3	81.55	13.5	18.27	21.39	18.32	15.86	3.02	3.65	2.91	2.41	0.8	1.61	31.36	14.71	0
2000	74	4	104.58	22.46	34.6	31.47	19.4	10.33	2.26	2.03	2.33	0.91	-0.42	1.34	31.43	14.79	0
2000	74	5	182.63	26.58	31.73	18.27	19.11	12.64	1.68	2.01	2.09	1.62	0.12	1.5	30.9	14.72	0
2000	74	6	204.84	42.31	97.26	46.66	20.98	28.01	1.38	1.2	1.89	2.22	0.34	1.88	30.42	14.99	0
2000	74	7	156.08	14.4	168.96	20.93	289.77	28.22	1.68	1.45	1.2	1.3	1.01	0.28	31.84	16.72	0
2000	74	8	165.79	9.09	169.69	16.33	171.92	19.81	4.84	3.76	3.06	-0.67	0.34	-1.01	34.46	18.33	0

2000	74	9	162.07	15.02	172.01	15.4	178.82	19.5	5.8	5.22	4.95	-2.18	-0.94	-1.24	39.14	21.94	0
2000	74	10	163.86	10.95	171.38	12.53	171.48	18.71	10.29	9.24	7.02	-3.1	-1.19	-1.92	45.94	24.1	0
2000	74	11	187.98	9.18	197.87	12.34	184.47	15.37	17.77	15.52	11.08	-3.18	-1.3	-1.87	49.22	23.1	0
2000	74	12	191.76	9.71	202.24	12.18	191.03	19.42	18.36	16.48	10.47	-3.71	-1.42	-2.28	51.36	23.31	0
2000	74	13	174.53	14.67	179.34	14.38	172.84	20.54	15.6	13.57	8.52	-2.74	-1.1	-1.64	50.98	24.24	0
2000	74	14	185.16	12.02	193.46	14.68	185.7	18.27	16.8	14.38	9.83	-2.87	-1.23	-1.64	52.48	24.91	0
2000	74	15	151.67	5.85	158.25	8.29	158.96	16.28	18.06	14.45	8.37	-1.8	-0.63	-1.17	49.67	25.61	0
2000	74	16	147.87	3.66	157.84	8.05	158.3	16.48	19.35	14.39	7.77	-1.7	-0.72	-0.98	48.86	25.33	0
2000	74	17	146.19	4.84	156.48	8.92	162.46	15.92	16.62	11.48	6.6	-1.22	-0.52	-0.69	47.28	25.18	0
2000	74	18	152.59	2.91	165.8	6.48	170.12	12.91	11.04	9.73	6.11	-0.53	-0.3	-0.23	45.59	24.92	0
2000	74	19	158.96	2.61	162.93	4.73	165.92	11.92	8.46	7.67	3.98	-0.11	-0.22	0.11	44.17	24.79	0
2000	74	20	160.51	4.73	157.28	4.94	155.42	15.17	6.8	7.43	3.2	-0.03	-0.17	0.14	43.22	25.4	0
2000	74	21	170.15	4.42	162.63	4.89	174.71	24.38	9.34	7.01	2.7	0.69	0.04	0.66	42.22	26.04	0
2000	74	22	177.01	17.72	183.23	35.34	303.06	38.33	6.28	4.34	1.9	1.41	-0.14	1.55	40.92	26.38	0
2000	74	23	156.26	23.41	124.61	16.59	187.71	31.53	5.18	5.03	2.94	2.41	0.71	1.7	40.5	25.3	0
2000	75	0	150.16	3.54	183.34	14.61	307.12	25.72	7.23	3.98	1.77	2.25	1	1.25	39.86	24.99	0
2000	75	1	157.77	3.3	186.93	14.7	333.56	16.88	5.97	3.4	1.66	2.57	0.82	1.75	38.69	24.73	0
2000	75	2	161.77	5.23	168.35	10.31	303.55	52.65	6.48	4.41	1.57	3.11	0.84	2.27	37.61	24.07	0
2000	75	3	157.24	2.79	174.13	7.49	347.85	24.99	6.15	4.62	1.77	3.95	1.16	2.8	36.17	23.07	0
2000	75	4	158.78	4.29	181.05	12.68	356.42	30.6	5.85	3.51	1.74	4	1.38	2.62	35.38	21.93	0
2000	75	5	151.1	6.87	203	37.76	12.58	20.07	4.6	2.09	2.39	3.59	0.52	3.07	34.73	21.14	0
2000	75	6	166.19	6.75	222.73	51.95	21.71	15.38	4.47	1.48	2.22	3.68	0.02	3.66	33.82	20.85	0
2000	75	7	173.88	6.83	199.21	51.61	20.39	65.02	5.37	2.02	1.31	2.24	0.74	1.5	35.5	22.92	0
2000	75	8	161.05	7.95	162.11	20.6	289.18	61.82	3.35	2.35	1.8	-0.59	-0.16	-0.43	38.49	24.12	0
2000	75	9	157.9	7.83	166.69	16.61	193.4	23.06	3.85	2.83	2.58	-1.14	-0.28	-0.85	40.04	24.42	0
2000	75	10	148.03	19.4	170.78	35.15	195.41	50.61	3.9	3.37	2.53	-1.65	-0.84	-0.81	41.72	25.44	0
2000	75	11	152.36	12.2	173.16	16.29	186.85	20.64	5.75	5.77	4.95	-2.2	-1.06	-1.14	44.62	27.29	0
2000	75	12	157.95	15.29	176.83	18.03	183.62	25.38	7.07	6.82	5.7	-2.69	-1.22	-1.48	49.04	29.54	0
2000	75	13	151.74	11.49	161.49	12.44	163.8	18.67	8.17	7.84	5.99	-3.23	-1.48	-1.74	55.07	31.65	0
2000	75	14	144.61	11.37	151.25	14.17	157.32	24.72	10.63	9.17	5.95	-3.17	-1.34	-1.82	60.43	33.38	0
2000	75	15	144.04	6.24	150.66	7.51	151.41	19.05	20.63	17.05	8.43	-2.09	-0.57	-1.52	61.08	34.44	0
2000	75	16	140.28	3.47	148.35	6.56	151.58	18.55	20.18	16.46	7.19	-1.2	-0.25	-0.95	60.13	33.91	0
2000	75	17	166.03	11.88	160.54	12.25	152.43	19.02	18.53	13.18	5.71	1.35	1.01	0.34	59.57	32.88	0
2000	75	18	163.08	6.55	157.48	7.04	152.91	16.11	17.81	14.1	6.32	3.39	2.7	0.69	57.36	31.53	0
2000	75	19	164.92	4.75	169.02	6.7	162.54	14.74	24.04	20.55	10.27	1.59	0.69	0.9	57.53	30.46	0
2000	75	20	172.56	4.36	179.12	6.02	176.44	12.53	27.45	22.85	12.01	0.26	-0.14	0.4	57.33	27.48	0
2000	75	21	177.46	5.2	182.53	6.07	173.13	11.37	20.55	18.02	8.75	0.77	-0.17	0.94	55.09	25.95	0
2000	75	22	178.32	5.81	183.24	6.23	172.75	11.37	17.92	15.56	7.47	0.6	-0.33	0.93	54.02	27.02	0
2000	75	23	177.95	6.1	180.49	5.73	171.33	10.01	15.15	12.62	5.58	0.52	-0.44	0.96	53.02	29.45	0
2000	76	0	179.93	4.52	176.68	5.47	158.03	10.44	12.73	9.51	2.94	0.98	-0.16	1.14	51.69	31.49	0
2000	76	1	179.78	4.22	175.09	5.15	153.03	10.24	14.51	10.16	2.9	1.6	0.26	1.34	50.6	32.59	0
2000	76	2	179.28	5.22	171.2	4.24	162.71	11.24	12.53	10.34	4.04	1.13	0	1.13	49.97	33.58	0
2000	76	3	175.17	4.36	170.28	3.55	162.9	10.68	13.88	10.67	4.72	0.57	-0.18	0.75	49.58	34.08	0
2000	76	4	170.75	4.59	168.68	5.36	168	12.07	13.4	8.74	4.04	0.25	-0.1	0.35	48.87	34.05	0
2000	76	5	168.19	4.07	166.77	5.23	192.72	23.87	11.38	6.91	3.06	1.15	0.1	1.06	47.29	33.19	0
2000	76	6	160.5	4.06	163.48	6.39	215.13	23.71	8.17	5.79	1.8	1.63	0.18	1.44	46.41	32.54	0
2000	76	7	161.57	3.2	166.22	5.01	179.43	12.25	8.26	7.19	4.1	0.03	-0.36	0.39	48.11	33.91	0
2000	76	8	159.4	6.96	165.96	11.34	172.51	19.32	6.99	5.97	4.14	-1.98	-0.87	-1.11	51.3	35.1	0
2000	76	9	156.67	11.43	160.68	13.64	168.56	20.69	6.02	5.42	4.41	-2.34	-1.06	-1.28	54.47	35.56	0

2000	76	10	144.84	19.35	177.33	21.71	242.42	29.69	3.65	3.49	2.86	-0.34	-0.81	0.46	54.37	35.24	0
2000	76	11	111.32	31.01	71.51	51.32	330.06	45.01	4.26	2.61	1.93	1.2	0.04	1.16	54.65	34.91	0
2000	76	12	142.22	5.84	176.58	33.2	205.38	33.46	8.4	4.17	2.3	1.77	1.33	0.45	55.32	36.07	0
2000	76	13	153.63	4.92	174.06	18.47	208.21	22.56	8.23	5.4	3.93	1.17	1.35	-0.18	56.84	34.79	0
2000	76	14	164.13	5.59	174.92	12.47	201.51	36.93	10.68	6.28	2.66	0.92	0.9	0.02	58.15	36.07	0
2000	76	15	189.13	8.42	192.24	11.15	180.56	15	17.11	13.52	7.31	-0.04	-0.46	0.42	61.14	38.36	0
2000	76	16	191.57	6.35	197.27	8.55	179.62	13.27	14.69	12.29	6.63	-0.88	-0.67	-0.21	62.24	40.27	0
2000	76	17	176.26	6.05	176.14	7.57	161.41	11.68	12.96	10.93	4.32	0.16	-0.51	0.67	61.33	39.74	0
2000	76	18	178.85	3.8	177.14	5.42	154.49	11.52	10.8	9.22	2.48	0.79	-0.3	1.1	60.26	39.28	0
2000	76	19	207.79	10.59	225.05	17.32	154.75	50.86	9.18	6.14	1.94	1.07	-0.35	1.42	59.49	39.5	0
2000	76	20	174.43	47.52	149.26	32.2	178.91	39.84	7.34	6.13	2.66	1.96	0.58	1.38	55.19	39.64	0.04
2000	76	21	3.24	11.03	6.56	9.85	11.24	12.97	9.3	8.35	5.08	0.34	0.25	0.09	50.91	39.69	0.03
2000	76	22	1.08	12.07	11.38	10.13	12.72	17.46	11.76	9.08	5.18	-0.27	0.06	-0.33	48.16	37.34	0.01
2000	76	23	1.46	11.79	8.53	11.93	9.51	15.21	14	11.29	6.61	-0.56	0.02	-0.58	45.64	35.33	0.03
2000	77	0	355.39	11.89	4.72	11.62	10.12	16.61	21.21	18.85	10.84	-0.85	0.01	-0.86	42.11	32.67	0.12
2000	77	1	354.18	11.05	5.8	12.4	8.06	16.37	22.72	21.22	11.76	-1.04	-0.23	-0.81	39.24	29.48	0.21
2000	77	2	353.69	11.49	2.3	14.3	7.64	16.46	22.96	21.83	11.84	-1.32	-0.42	-0.9	38.39	28.54	0.02
2000	77	3	352.34	11.71	0.65	11.49	6.71	18.52	25.05	24.38	12.58	-1.5	-0.58	-0.93	36.85	26.78	0
2000	77	4	351.5	11.15	359.41	14.55	6.82	19.55	27.4	26.45	12.85	-1.7	-0.76	-0.95	35.77	25.23	0
2000	77	5	350.26	10.54	359.71	14.38	7.43	19.61	31.02	28.4	14.45	-2.01	-0.95	-1.06	34.76	23.7	0
2000	77	6	351.85	10.68	359.38	15.52	4.75	20.3	23.71	25.46	13.05	-2.02	-0.98	-1.04	33.9	22.45	0.04
2000	77	7	347.91	8.24	357.25	14.66	0.53	21.89	17.95	24.91	13.34	-1.97	-0.94	-1.02	32.85	21.18	0.04
2000	77	8	348.37	8.35	356.86	13.64	3	21.86	17.34	23.89	12.21	-1.1	-0.05	-1.05	31	19.47	0
2000	77	9	346.89	8.39	355.37	16.14	1.06	21.98	16.68	23.8	12.09	-0.32	0.9	-1.23	30.68	18.97	0
2000	77	10	346.37	8.91	355.94	14.8	1.82	22.71	19.64	28.27	14.21	-1.46	-0.24	-1.22	30.46	16.73	0
2000	77	11	349.87	11.38	359.07	16.25	8.12	21.31	20.21	28.29	14.62	-1.87	-0.74	-1.13	30.34	16.64	0
2000	77	12	349.29	10.22	359.05	13.59	3.48	21.57	19.69	27.66	12.95	-1.62	-0.51	-1.11	30.16	16.98	0
2000	77	13	350.4	11.7	358.87	13.82	5.8	20.43	16.4	22.32	10.68	-0.42	0.74	-1.16	29.67	17.81	0
2000	77	14	346.66	5.43	355.96	11.85	358.39	22.43	16.71	22.34	9.68	-0.05	1.39	-1.44	30.68	18.52	0
2000	77	15	343.47	6.35	352.56	11.1	349.39	22.51	20.5	25.97	11.63	-1.85	-0.5	-1.35	32.56	17.61	0
2000	77	16	344.51	4.86	354.92	11.03	352.31	23.75	23.55	25.49	10.74	-2.35	-1.1	-1.25	33.68	16.79	0
2000	77	17	348.48	7.75	357.57	12.85	2.02	21.54	21.88	21.57	10.15	-2.19	-1.1	-1.08	32.96	17.14	0
2000	77	18	352.28	11.98	1.09	11.51	5.84	19.82	19.72	18.72	9.7	-2.15	-1.1	-1.06	31.18	16.54	0
2000	77	19	358.3	15.67	8.33	12.49	11.9	17.7	17.43	15.06	8.75	-2.16	-1.15	-1.01	29.67	14.03	0
2000	77	20	356.52	14.5	4.2	12.77	8.4	18.67	18.49	16.19	9.09	-2.07	-1.14	-0.94	29.09	11.28	0
2000	77	21	358.37	15.19	7.2	13.65	11.11	17.93	20.34	17.28	10.37	-2.06	-1.12	-0.94	28.18	7.54	0
2000	77	22	357.4	15.02	4.8	14.22	9.7	18.9	20.58	17.8	9.95	-2.05	-1.11	-0.94	26.9	5.86	0
2000	77	23	356.35	14.72	4.7	13.39	10.57	17.17	23.91	21.08	12.15	-2.08	-1.12	-0.96	25.88	4.9	0
2000	78	0	353.93	13.15	2.89	14.89	8.05	18.54	24.36	21.57	11.97	-2.13	-1.15	-0.98	24.49	3.66	0
2000	78	1	356.75	14.7	4.48	13.28	10.8	16.33	21.13	18.91	11.61	-2.09	-1.13	-0.97	23.51	2.69	0
2000	78	2	0.53	17.2	10.87	10.53	13.56	15.14	25.11	22.08	14.43	-2.07	-1.08	-0.99	22.81	0.73	0
2000	78	3	0.27	17.13	9.53	9.32	11.2	15.86	28.2	25.38	16.04	-2.13	-1.11	-1.03	21.6	-0.52	0
2000	78	4	356.64	14.08	5.24	14.29	11.03	17.56	26.3	23.86	13.93	-2.19	-1.17	-1.01	21.16	0.34	0
2000	78	5	1.49	15.24	11.14	12.28	15.02	15.72	23.12	19.72	12.68	-2.16	-1.15	-1.01	20.39	-1.08	0
2000	78	6	4.91	12.64	15.09	11.91	17.47	15.88	18.69	15.89	10.58	-2.17	-1.17	-1.01	20.16	-2.23	0
2000	78	7	2.7	17.74	11.81	13.31	13.64	18.3	16.37	13.97	9.42	-2.47	-1.24	-1.23	20.33	-1.81	0
2000	78	8	0.24	18.28	7.83	15.58	8.69	17.56	16.8	15.06	9.44	-2.87	-1.36	-1.52	21.51	-0.79	0
2000	78	9	346.71	13.09	351.02	12.99	345	25.51	10.74	10.51	6.16	-3.14	-1.27	-1.88	23.54	0.33	0
2000	78	10	334.38	16.04	338.1	14.76	338.07	26.3	9	9.09	5.42	-3.37	-1.31	-2.06	25.83	1.81	0

2000	78	11	334.5	13.91	340.03	15.17	338.39	25.96	9.26	9.46	5.83	-3.49	-1.33	-2.16	28.22	3.02	0
2000	78	12	320.56	12.56	328.26	14.94	327.05	28.53	8.46	8.18	4.99	-3.56	-1.47	-2.09	30.56	4.5	0
2000	78	13	317.51	11.35	330.42	12.52	332.3	24.89	8.15	8.26	5.5	-3.51	-1.39	-2.12	32.61	6.45	0
2000	78	14	326.89	13.54	337.02	15.15	338.58	25.09	7.94	8.13	5.45	-3.35	-1.41	-1.95	34.49	8.1	0
2000	78	15	301.06	17.38	311.67	20.5	307.37	38.62	6.98	6.92	4.32	-3.1	-1.33	-1.77	36.53	9.38	0
2000	78	16	284.67	21.69	291.49	27.53	293.49	38.29	4.79	4.61	3.55	-2.34	-1	-1.35	37.17	7.52	0
2000	78	17	305.3	46.86	332.3	39.44	318.41	56.11	3.2	3.13	2.44	-2.04	-0.96	-1.08	37.61	6.34	0
2000	78	18	74.72	33.95	70.39	23.89	75.21	31.46	3.75	4.15	3.11	-1.34	-0.89	-0.45	36.16	6.53	0
2000	78	19	28.79	8.62	40.62	15.85	44.11	14.11	5.51	5.27	3.15	-0.92	-0.81	-0.11	34.32	8.36	0
2000	78	20	144.46	14.33	139.49	10.41	131	13.57	3.64	4.91	1.9	-0.61	-0.76	0.15	32.44	6.59	0
2000	78	21	149.22	6.55	140.44	4.86	99.67	10.53	3.34	4.39	2.6	-0.16	-0.79	0.62	31.36	5.08	0
2000	78	22	154.31	7.51	160.18	4.91	147.57	25.42	5.31	4.9	2.33	-0.36	-0.7	0.33	30.69	5.33	0
2000	78	23	203.54	6.17	208.66	9.12	183.16	19.74	7.51	6.24	2.51	-0.79	-0.64	-0.15	30.63	8.88	0
2000	79	0	172.71	12.18	162.66	12.98	113.9	14.83	4.07	3.34	1.98	-0.89	-0.86	-0.04	30.29	8.49	0
2000	79	1	135.51	12.16	100.7	45.08	162.39	71.6	4.04	3.07	1.38	-0.64	-0.43	-0.21	29.71	8.94	0
2000	79	2	27.98	21.79	10.78	42.36	13.18	39.07	2.78	2.84	2.12	-1.31	-0.74	-0.57	29.57	10.38	0
2000	79	3	1.62	11.77	29.26	5.99	39.9	10.56	4.15	6.02	4.04	-0.72	-0.45	-0.27	29.02	9.92	0
2000	79	4	37.99	8.88	29.77	5.29	25.72	9.15	5.3	6.53	4.57	-0.38	0	-0.38	28.7	10.45	0
2000	79	5	21.68	8.15	27.24	6.39	30.17	13.01	5.53	6.23	3.67	-0.73	-0.66	-0.07	28.25	9.89	0
2000	79	6	41.22	17.1	40.11	11.89	46.18	15.34	4.33	4.74	3.4	-0.86	-0.86	0	27.63	10.29	0
2000	79	7	40.07	16.82	36.08	15.11	22.95	16.02	5.42	4.87	4.16	-1.88	-0.96	-0.92	28.51	11.45	0
2000	79	8	68.54	23.76	73.08	28.22	53.94	35.6	7	6.24	4.33	-2.23	-1.17	-1.07	31.46	10.12	0
2000	79	9	86.07	20.26	96.96	25.73	85.42	44.62	8.8	7.87	5.11	-2.79	-1.36	-1.43	33.69	12.41	0
2000	79	10	171.28	34.13	181.02	36.69	174.06	44.35	7.35	7.41	5.77	-2.72	-1.13	-1.59	35.35	13.54	0
2000	79	11	178.22	7.56	191.11	9.41	191.07	16.23	12.17	11.94	9.59	-3.08	-1.03	-2.05	36.63	13.96	0
2000	79	12	176.2	7.72	186.42	9.72	184.18	15.41	12.8	12.02	9.72	-3.16	-1.22	-1.95	38.25	14.81	0
2000	79	13	171.87	5.82	183.12	9.12	183.51	14.65	14.62	13.35	10.68	-3.5	-1.49	-2.01	39.48	16.31	0
2000	79	14	173.87	6.79	186.01	9.2	186.61	14.01	13.74	12.64	10.22	-3.24	-1.3	-1.94	40.66	15.21	0
2000	79	15	168.24	7.13	184.06	9.06	183.33	14.14	12.09	11.84	9.26	-2.91	-1.15	-1.76	41.74	15.89	0
2000	79	16	159.03	7.47	172.3	9.51	173.05	16.07	9.61	9.64	7.34	-2.59	-1.11	-1.48	42.12	17.54	0
2000	79	17	154.11	7.06	167.49	8.13	170.54	13.64	8.16	8.53	6.32	-2.12	-1.03	-1.09	41.29	18.39	0
2000	79	18	158.71	4.9	171.58	6.51	170.69	12.7	9.1	9.92	5.47	-1.43	-0.92	-0.5	39.89	19.37	0
2000	79	19	164.76	3.8	173.26	6.68	168.22	12.55	9.47	8.58	4.04	-1.13	-0.92	-0.2	38.8	19.02	0
2000	79	20	164.38	4.17	176.39	5.8	169.67	10.53	8.09	7.4	3.39	-0.96	-0.86	-0.1	37.89	18.79	0
2000	79	21	186.15	6.51	195.21	7.04	180.56	12.24	8.43	7.19	3.35	-0.96	-0.79	-0.17	36.58	18.68	0
2000	79	22	199.29	7.23	186.48	7.79	160.21	10.74	5.3	4.95	2.23	-1.05	-0.85	-0.2	35.15	17.77	0
2000	79	23	177.25	13.73	162.45	14.38	120.82	20.56	2.82	3.25	1.98	-0.53	-0.77	0.25	34.33	17.67	0
2000	80	0	121.42	8.98	74.21	27.76	24.25	11.34	3.51	2.51	1.91	0.01	0.08	-0.07	33.48	18.05	0
2000	80	1	72.73	27.17	16.8	6.66	12.66	11.52	2.44	4.36	3.07	0.41	0.5	-0.09	32.84	18.1	0
2000	80	2	28.49	11.42	23.52	6.26	32.07	10.32	5.65	7.55	5.63	0	0.01	-0.01	32.75	18.21	0
2000	80	3	68.1	6.02	65.07	10.75	34.91	18.11	11.03	7.27	3.96	-1.09	-0.47	-0.63	33.01	16.44	0
2000	80	4	49.68	16.92	51.58	18.66	22.43	27.68	7.06	5.41	3.33	-1.75	-0.96	-0.79	32.86	14.75	0
2000	80	5	49.76	9.62	55.29	10.93	41.87	17.76	7.86	6.6	3.86	-1.82	-0.98	-0.84	32.39	13.84	0
2000	80	6	58.33	11.48	64.87	14.01	51.79	23.07	7.77	6.33	3.78	-1.87	-1	-0.87	31.81	13.71	0
2000	80	7	62.14	15.1	73.88	20.67	66.7	39	7.47	6.45	3.92	-2.09	-1.1	-0.99	32.09	14.79	0
2000	80	8	60.66	17.54	70.3	18.93	59.65	35.55	7.26	6.57	4.26	-2.31	-1.17	-1.14	33.68	16.37	0
2000	80	9	43.5	22.05	49.19	22.21	35.58	26.21	6.53	6.25	5.14	-2.48	-1.19	-1.29	35.92	18.56	0
2000	80	10	59.45	26.7	64.03	34.19	41.94	45.17	7.14	6.67	4.93	-2.56	-1.26	-1.29	38.67	19.16	0
2000	80	11	188.89	25.81	208.41	32.43	223.51	47.27	6.65	6.36	4.77	-2.84	-1.16	-1.68	40.71	19.54	0

2000	80	12	245.02	46.87	254.58	31.39	255.49	37.98	4.66	5.44	4.51	-2.82	-1.05	-1.77	42.19	20.17	0
2000	80	13	234.91	26.65	240.78	20.8	235.12	29.19	5.72	6.33	5.47	-2.9	-1.15	-1.75	44.77	21.37	0
2000	80	14	193.15	13.99	194.65	13.39	187.46	19.04	5.93	6.73	5.77	-2.41	-0.93	-1.48	45.87	21.58	0
2000	80	15	173.15	7.96	183.96	9.79	179.68	15.81	7.72	7.55	6.16	-2.57	-1.05	-1.52	47.07	23.9	0
2000	80	16	164.91	4.18	175.43	6.32	175.82	13.55	8.44	9.81	7.42	-2.49	-1.01	-1.48	46.94	25.15	0
2000	80	17	176.46	4.55	184.06	6.85	178.63	12.36	9.7	8.84	5.6	-1.95	-0.92	-1.03	45.96	24.99	0
2000	80	18	135.08	9.25	151.86	12.94	160.79	18.92	7.3	6.25	3.38	-1.56	-0.81	-0.75	44.9	24.39	0
2000	80	19	115.65	9.49	129.29	12.31	137.02	28.16	8.72	7.06	3.1	-1.88	-1.04	-0.84	44.39	24.12	0
2000	80	20	125.55	11.31	136.5	12.2	142.86	29.08	6.97	6.15	2.62	-1.91	-1.05	-0.87	43.22	24.19	0
2000	80	21	126.06	10.09	136.11	13.17	144.12	24.7	7.45	6.44	3.01	-1.94	-1.06	-0.88	42.19	24.38	0
2000	80	22	109.93	8.04	121.09	10.83	129.24	26.79	7.88	7.06	3.09	-1.97	-1.05	-0.92	41.1	24.42	0
2000	80	23	81.21	13.49	96.49	15.73	93.16	33.66	6.43	5.46	2.7	-1.93	-1	-0.93	40.47	24.53	0
2000	81	0	65.81	13.26	77.61	16.28	76.04	32.84	9.49	8.12	4.51	-1.97	-1.02	-0.95	40.23	24.54	0
2000	81	1	56.86	8.04	66.66	11.24	52.72	22.32	12.48	10.88	6.25	-2.08	-1.05	-1.03	39.02	24.11	0
2000	81	2	52.94	11.76	62.38	14.87	48.02	22.25	10.37	8.74	5.27	-2.06	-0.98	-1.08	37.99	24.23	0
2000	81	3	47.56	10.69	59.82	15.29	48.62	22.6	10.15	8.43	5.29	-1.95	-0.9	-1.05	37.7	24.1	0
2000	81	4	38.84	11.92	52.12	12.85	42.4	18.26	11.63	10.09	6.51	-1.95	-0.9	-1.06	37.61	24.06	0
2000	81	5	30.81	10.64	42.17	11.79	33.97	16.95	10.37	9.57	6.4	-1.91	-0.88	-1.03	37.31	23.81	0
2000	81	6	37.99	10.27	48.36	12.86	37.81	17.76	10.68	8.99	5.93	-2.02	-0.95	-1.07	37.39	23.52	0
2000	81	7	42	11.29	52.92	13.92	43.25	21.07	11.66	10.6	6.75	-2.08	-0.98	-1.1	37.36	23.81	0
2000	81	8	34.68	9.7	45.4	11.99	38.46	16.61	12.82	11.56	7.93	-2.14	-1.02	-1.13	37.56	24.07	0
2000	81	9	35.95	9.81	45.48	11.58	35.89	18.86	11.81	10.74	7.34	-2.21	-1.05	-1.16	38.29	24.27	0
2000	81	10	41.02	8.95	50.02	11.89	40.08	17.97	14.72	13	8.66	-2.3	-1.12	-1.18	39.23	25.03	0
2000	81	11	41.53	9.92	51.1	12.2	41.35	19.52	13.11	11.85	7.83	-2.34	-1.12	-1.21	40.56	25.75	0
2000	81	12	44.05	9.23	56.08	12.75	45.13	20.43	15.84	13.99	9.04	-2.44	-1.2	-1.24	42.36	27.03	0
2000	81	13	44.61	14.28	52.18	15.77	42.47	22.25	12.17	10.67	7.45	-2.32	-1.15	-1.17	43.91	27.95	0
2000	81	14	46.17	12.99	54.39	15.34	40.38	21.14	12.69	11.12	7.36	-2.26	-1.13	-1.13	44.73	28.78	0
2000	81	15	52.59	10.94	61.91	12.8	49.23	22.23	12.96	10.96	6.6	-2.18	-1.11	-1.08	44.79	28.74	0
2000	81	16	50.11	14.1	58.04	16.11	48.75	22.32	10.77	9.56	5.8	-2.03	-1.05	-0.97	45.24	28.76	0
2000	81	17	50.57	11.27	62.51	14.36	57.72	23.11	12.85	10.75	6.58	-2.01	-1.05	-0.95	45.3	28.43	0
2000	81	18	54.93	10.7	65.4	14.11	55.31	23.25	13.5	11.8	6.83	-1.96	-1.04	-0.92	44.42	27.62	0
2000	81	19	51.8	9.8	63.19	13.94	54.54	23.26	13.79	11.95	7.03	-1.96	-1.03	-0.93	43.2	27.04	0
2000	81	20	43.55	9.92	52.48	12.16	40.71	17.7	13.44	11.84	7.62	-2	-1.03	-0.96	42.21	27.12	0
2000	81	21	47.75	11.21	58.37	14.96	49.42	20.54	14.99	13.04	8.11	-1.99	-1.03	-0.96	41.23	26.62	0
2000	81	22	35.79	9.73	46.96	12.19	38.26	18.14	13.34	11.41	7.49	-2	-1.02	-0.98	40.54	26.63	0
2000	81	23	47.8	11.01	56.96	11.94	48.3	18.95	14.28	12.34	7.89	-2	-1.01	-0.99	39.78	25.79	0
2000	82	0	42.46	8.92	51.79	11.56	41.82	17.16	14.28	12.35	7.71	-2	-0.99	-1.02	39.22	25.75	0
2000	82	1	35.61	10.01	47.76	12.63	38.53	17.88	14.08	12.36	7.86	-1.97	-0.98	-0.99	39.03	25.7	0
2000	82	2	33.47	11.5	43.35	12.99	37.16	18.19	15.73	13.7	8.87	-2	-0.99	-1.01	38.6	25.28	0
2000	82	3	29.35	8.8	39.04	10.85	31.79	14.57	15.12	13	8.68	-2	-1	-1	38.22	25.03	0
2000	82	4	24.64	10.04	35.58	11.65	31.06	14.9	13.85	11.8	8.08	-1.95	-0.99	-0.96	38.33	24.53	0
2000	82	5	15.61	11.08	22.95	12.53	23.8	16.63	11.34	9.33	6.16	-1.98	-1.06	-0.91	38.81	24.17	0
2000	82	6	18.12	10.33	27.32	12.37	28.07	14.5	11.27	9.53	6.68	-1.93	-1.04	-0.89	39.23	24.56	0
2000	82	7	28	11.31	38.44	12.43	31.83	16.19	13.27	11.25	7.77	-2.05	-1.03	-1.02	39.79	25.39	0
2000	82	8	24.71	9.19	34.18	12.15	29.47	16.01	15.17	13.24	8.96	-2.14	-1.08	-1.07	40.1	25.94	0
2000	82	9	20.51	9.93	29.57	13.6	25.01	16.05	13.15	11.5	8.15	-2.32	-1.15	-1.17	41.01	26.22	0
2000	82	10	15.01	8.35	25.15	11.26	24.31	15.78	11.56	10.42	7.79	-2.32	-1.18	-1.14	41.69	26.43	0
2000	82	11	10.03	9.13	17.02	14.31	15.17	20.84	9.52	8.69	6.64	-2.51	-1.19	-1.31	43.14	26.87	0
2000	82	12	11.86	14.16	15.61	17.31	11.07	21.09	8.56	7.93	5.74	-2.51	-1.17	-1.34	44.93	27.72	0

2000	82	13	19.14	25.83	8.36	30.54	5.96	32.13	6.72	6.14	4.88	-2.44	-1.17	-1.27	46.65	28.68	0
2000	82	14	8.47	23.26	349.8	20.31	334.72	32.12	5.79	5.49	4.09	-2.65	-1	-1.65	48.87	29.59	0
2000	82	15	165.6	30.02	215.37	28.49	220.95	39.84	5.92	5.62	4.49	-2.12	-0.94	-1.18	50.5	29.57	0
2000	82	16	202.82	15.64	211.82	20.5	202.52	29.53	5.23	4.94	4.25	-2.36	-1.14	-1.22	52.27	30.22	0
2000	82	17	155.45	9.58	168.02	10.04	169.56	15.22	9.75	8.1	5.97	-1.75	-0.63	-1.12	49.65	29.63	0
2000	82	18	148.36	2.1	158.9	5.37	157.25	13.86	10.27	7.81	4.33	-0.68	-0.19	-0.48	45.02	27.89	0
2000	82	19	160.67	2.53	159.15	3.54	156.18	12.62	5.82	5.95	2.92	-0.42	-0.29	-0.13	43.41	27.24	0
2000	82	20	175.03	5.2	165.53	4.07	150.21	10.38	5.38	4.78	1.64	-0.28	-0.5	0.23	42.35	27.05	0
2000	82	21	232.05	12.62	200.37	22.3	130.64	44.49	3.93	2.96	1.62	0.35	-0.3	0.64	41.57	26.95	0
2000	82	22	343.12	23.11	35.82	14.67	21.24	12.63	2.12	3.46	2.23	1.19	0.21	0.98	40.42	26.79	0
2000	82	23	15.68	8.97	24.02	9.88	23.89	19.64	2.81	3.08	1.47	1.52	0.05	1.47	39.2	25.89	0
2000	83	0	113.6	12.5	140.22	21.19	120.19	32.99	2.89	3.42	1.98	1.12	0.42	0.69	38.08	25.11	0
2000	83	1	85.78	20.86	329.3	43.7	10.21	13.66	1.96	1.68	2.24	0.16	-0.28	0.43	37.8	25.31	0
2000	83	2	21.28	10.83	22.98	6.22	24.98	14.81	2.53	4.54	2.75	1.4	0.06	1.34	36.72	24.21	0
2000	83	3	43.24	8.8	26.08	4.59	30.01	8.79	2.88	5.43	4.15	1.79	0.22	1.57	36.05	23.76	0
2000	83	4	37.84	6.03	16.53	5.24	19.21	12.64	2.87	5.27	2.86	2.45	0.75	1.69	34.88	22.5	0
2000	83	5	33.02	6.51	22.3	5.28	29.16	8.68	3.3	5	3.42	2.82	1.35	1.47	34.44	21.92	0
2000	83	6	5.68	14.51	14.33	11.17	39.39	15.75	3.63	4.51	2.89	2.52	2.03	0.49	33.98	21.87	0
2000	83	7	109.79	30.37	8.77	53.23	50.5	44.73	1.64	1.79	1.82	0.61	1.35	-0.74	35.56	24.03	0
2000	83	8	141.62	41.45	198.03	33.27	223	54.67	2.19	2.71	2.61	-1.55	-0.71	-0.84	39.79	26.86	0
2000	83	9	106.1	57.1	187.89	49.81	211.24	42.21	2.48	2.2	2.84	-1.48	-0.73	-0.74	44.29	29.35	0
2000	83	10	29.37	51.08	208.85	36.56	220.63	43.44	4.38	3.87	3.83	-1.3	-0.58	-0.72	48.84	31	0
2000	83	11	350.33	8.5	357.95	12.19	347.58	24.3	10.99	9.52	5.39	-2.7	-0.98	-1.73	55.55	33.91	0
2000	83	12	342.95	5.95	354.88	9.34	350.6	22.3	12.8	12.01	6.73	-3.26	-1.19	-2.07	58.45	35.62	0
2000	83	13	339.35	7.63	349.28	11.87	343.26	21.8	13.71	13.39	6.61	-3.31	-1.18	-2.13	60.5	37.02	0
2000	83	14	343.52	9.66	352.38	11.26	348.05	23.21	11.93	11.67	6.16	-3.08	-1.17	-1.91	62.08	37.56	0
2000	83	15	355.77	10.19	2.11	13.93	2.18	21.82	9.51	8.74	5.83	-2.95	-1.28	-1.67	63.97	38.63	0
2000	83	16	6.49	9.67	18.24	14.44	22.18	16.94	7.89	7.2	5.99	-2.44	-1.26	-1.18	64.65	38.27	0
2000	83	17	4.68	9.72	11.42	10.81	7.24	15.6	7.79	7.08	4.62	-1.9	-1.04	-0.86	64.53	37.94	0
2000	83	18	0.88	9.97	4.78	6.93	0.67	13.62	8.99	7.84	3.86	-0.77	-0.88	0.12	62.9	36.89	0
2000	83	19	349.91	9.02	0.54	38.3	19.85	51.84	8.06	5.6	2.77	1.31	0.18	1.13	59.63	35.81	0
2000	83	20	359.5	6.9	60.82	50.88	224.83	31.9	6.67	2.63	1.68	4.95	1.92	3.03	54.15	33.65	0
2000	83	21	352.18	9.86	3.46	12.25	28.1	52.16	10.26	5.68	1.68	5.15	1.14	4.02	52.35	33.56	0
2000	83	22	351.02	6.17	3.01	9.53	15.29	13.19	15.32	12.88	6.07	1.56	-0.15	1.71	54.57	34.81	0
2000	83	23	349.66	7.82	359.19	11.92	10.73	21.77	15.99	13.24	5.69	0.02	-0.42	0.44	54.76	34.28	0
2000	84	0	357.86	11.94	12.72	11.55	35.41	22.54	14.36	11.17	5.65	-0.02	-0.4	0.39	53.58	33.5	0
2000	84	1	357.33	10.75	6.24	7.98	25.08	16.23	11.92	10.47	5.04	0.13	-0.46	0.6	52.21	32.61	0
2000	84	2	352.06	7.42	0.07	8.61	8.97	20.83	11.22	9.97	3.8	0.79	-0.53	1.32	50.21	31.82	0
2000	84	3	352.47	10.35	1.25	7.42	7.93	15.17	9.95	9.68	5.01	-0.39	-0.68	0.28	49.54	31.88	0
2000	84	4	352.44	8.24	1.11	10.15	4.62	15.22	12.54	11.1	5.77	-0.02	-0.45	0.43	49.05	31.84	0
2000	84	5	349.75	4.3	2.18	8.68	26.01	14.96	13.2	11.93	6.03	1.54	-0.44	1.98	47.99	31.14	0
2000	84	6	355.08	7.93	6.95	4.7	26.67	7.05	9.99	9.42	6.3	1.26	-0.39	1.65	46.76	31.07	0
2000	84	7	351.18	6.25	1.74	8.88	20.53	13.86	10.54	9.94	5.8	-0.23	-0.62	0.39	47.98	32.58	0
2000	84	8	346.13	7.39	350.83	7.64	340.87	19.38	13.76	12.57	5.86	-1.91	-0.71	-1.2	51.11	34.13	0
2000	84	9	346.27	6.94	353.67	7.74	351.2	20.9	15.47	14.95	6.94	-2.58	-0.93	-1.65	54.56	35.14	0
2000	84	10	342.85	7.22	355.11	10.88	353.44	21.36	9.57	9.69	5.84	-3.15	-1.18	-1.97	57.46	34.03	0
2000	84	11	347.62	8.66	357.92	11.63	351.06	21.37	8.96	8.7	5.91	-3.43	-1.36	-2.07	59.87	31.57	0
2000	84	12	352.54	9.8	359.73	13.13	358.82	20.54	9.18	8.43	6.35	-3.35	-1.52	-1.84	61.61	28.54	0
2000	84	13	348.3	8.55	357.31	11.76	351.28	21.89	9.03	8.7	5.75	-3.31	-1.5	-1.81	63.31	25.72	0

2000	84	14	342.82	13.72	351.4	16.16	354.3	26.64	7.97	7.31	5.17	-3.13	-1.36	-1.76	64.95	22.68	0
2000	84	15	339.35	11.8	346.13	14.71	339.86	29.22	7.84	7.5	4.54	-2.91	-1.23	-1.68	66.11	21.8	0
2000	84	16	24.65	16.82	31.72	21.14	20.67	24.01	5.11	4.87	4.11	-2.44	-1.27	-1.18	66.57	23.93	0
2000	84	17	131.16	45.33	178.87	48.85	197.28	48.57	3.39	3.66	2.74	-1.69	-0.99	-0.7	66.17	23.87	0
2000	84	18	192.12	12.7	196.99	15.1	181.56	40.55	3.6	4.18	2.29	0.66	-0.57	1.24	62.97	22.12	0
2000	84	19	154.65	8.75	163.34	15.05	211.13	57.93	4.88	3.36	2.32	2.02	0.17	1.85	58.94	23.71	0
2000	84	20	170.14	8.74	158.59	5.6	198.53	23.75	7.39	5.19	2.46	2.47	0.69	1.78	55.53	27.76	0
2000	84	21	147.7	3.19	150.43	8.17	241.71	27.55	10.28	5.96	2.13	2.43	0.66	1.77	52.55	29.38	0
2000	84	22	147.8	2.86	173.58	13.04	258.3	10.2	8	3.44	2.7	1.96	0.69	1.27	51.38	28.8	0
2000	84	23	154.9	2.45	184.48	10.11	267.55	21.51	5.49	4.16	1.83	2.36	1.29	1.06	49.97	28.24	0
2000	85	0	157.82	4.08	207.15	32.48	8.18	12.24	4.56	2.2	1.65	3.86	1.04	2.83	47.28	27.82	0
2000	85	1	164.05	24.54	333.26	30.68	356.36	47.53	3.6	2.04	2	5.35	0.29	5.06	44.24	27.28	0
2000	85	2	154.58	33.2	79.9	38.37	4.92	25.84	2.54	1.79	2.2	5.32	0.32	5	42.94	26.24	0
2000	85	3	169.55	5.95	5.42	33.64	22.4	39.84	3.89	1.39	1.66	5.06	0.72	4.34	42.36	25.85	0
2000	85	4	177.73	6.12	76.23	32.57	5.19	25.7	3.52	1.32	1.3	5.14	1.53	3.61	41.39	25.96	0
2000	85	5	186.14	9.4	237.92	41.35	27.82	61.62	4.35	1.33	1.12	5.08	2.2	2.88	40.69	25.03	0
2000	85	6	178.45	6.64	168.03	53.02	281.96	49.18	4.42	1.18	1.09	4.39	1.27	3.12	40.45	25.74	0
2000	85	7	167.1	6.2	174.17	33.06	170.48	36.7	4.92	1.55	1.51	1.35	0.65	0.69	42.69	27.58	0
2000	85	8	150.85	9.43	158.8	14.99	202.58	39.14	5.49	3.98	3.07	-1.16	-0.48	-0.68	47.03	29.77	0
2000	85	9	146.89	12.84	173.01	17.7	209.72	28.98	5.93	5.13	4.44	-1.47	-0.81	-0.66	51.3	32.12	0
2000	85	10	149.21	8.37	157.64	10.53	172.26	23.58	11.64	10.06	6.89	-2.26	-0.94	-1.31	57.32	32.9	0
2000	85	11	154.19	4.92	158.01	8.02	158.88	15.94	12.36	11.51	7.31	-2.52	-0.62	-1.9	60.2	32.25	0
2000	85	12	146.29	5.79	152.72	8.93	159.16	17.67	15.02	12.74	8.2	-3.55	-1.33	-2.22	62.4	33.12	0
2000	85	13	147.25	4.73	152.23	7.94	153.14	18.82	17.87	14.63	7.14	-1.6	-0.35	-1.25	60.44	33.19	0
2000	85	14	145.74	4.34	156.45	8.94	161.22	16.66	15.89	11.28	6.69	-1.69	-0.52	-1.17	59.53	34.78	0
2000	85	15	146.39	7.34	157.39	10.88	161.24	17.24	12.15	10.57	7	-3	-1.26	-1.74	60.1	37.66	0
2000	85	16	141.48	4.26	153.12	9.2	154.99	19.04	14.22	10.59	5.71	-1.82	-0.49	-1.33	57.85	37.89	0
2000	85	17	148.47	2.98	156.78	8.02	160.89	16.29	13.05	8.86	5.31	-0.74	0.24	-0.98	56.72	37.93	0
2000	85	18	150.64	3.94	153.66	8.8	150.47	17.65	10.3	7.87	3.41	-0.09	0.07	-0.16	54.63	36.77	0
2000	85	19	149.41	3.66	155.44	7.59	171.59	13.72	9.54	6.88	3.74	0.12	0.06	0.06	53.13	35.89	0
2000	85	20	147.17	5.23	155.72	11.68	199.27	52.44	7.46	5.12	2.21	0.85	-0.08	0.92	51.17	35.61	0
2000	85	21	94.32	22.73	102.75	27.26	315.61	44.21	6.06	5.11	2.93	0.33	-0.25	0.57	51.03	35.62	0
2000	85	22	149.24	43.93	180.77	40.55	210.37	38.02	3	3.54	2.56	0.57	-0.46	1.03	51.11	35.59	0
2000	85	23	277.58	57.02	294.73	39.83	73.8	52.24	2.39	2.7	2.38	0.56	-0.55	1.12	50.75	35.47	0
2000	86	0	2.39	23.76	29.85	12.53	50.98	35.27	5.52	6.95	4.19	2.31	1.23	1.08	51.05	36.28	0.02
2000	86	1	280.15	39.45	92.39	45.5	191.48	58.03	5.98	2.79	1.89	5.42	3.57	1.85	49.25	36.7	0
2000	86	2	287.44	17.69	229.91	26.13	130.06	48.17	9.58	4.48	2.09	7.29	3.73	3.56	48.67	36.47	0
2000	86	3	306.43	12.58	318.03	14.41	329	51.64	12.33	9.6	3.06	5.1	-0.38	5.49	53.07	34.48	0
2000	86	4	304.38	19.76	312.17	24.84	317.77	53.11	8.27	6.63	2.87	-0.15	-0.8	0.65	56.77	31.69	0
2000	86	5	304.19	17.1	313.23	18.74	314.97	41.35	11.18	8.94	3.85	-0.98	-1.02	0.04	56.18	30.74	0
2000	86	6	312.13	14.62	325.77	16.48	323.59	30.12	14.89	13.33	5.85	-1.46	-1.03	-0.43	54.74	27.3	0
2000	86	7	289.19	19.8	298.73	21.1	296.11	49.1	9.83	8.1	3.58	-1.79	-1.06	-0.73	54.19	27.1	0
2000	86	8	274.83	13.6	285.87	17.96	283.91	30.27	20.54	17.87	8.58	-2.4	-1.09	-1.31	55.82	24.98	0
2000	86	9	283.37	11.99	294.39	15.22	296.35	28.51	22.18	20.14	8.86	-2.89	-1.11	-1.78	56.44	25.18	0
2000	86	10	299.62	16.66	311.52	19.21	308.21	33.32	19.93	18.04	7.98	-3.35	-1.19	-2.16	57.85	25.93	0
2000	86	11	278.52	14.36	287.86	16.77	286.62	31.24	21.36	19.27	8.86	-3.6	-1.16	-2.44	58.95	25.94	0
2000	86	12	282.66	14.35	293.82	18.05	294.33	31.04	21.34	19.54	9.11	-3.49	-1.15	-2.34	59.55	26.37	0
2000	86	13	303.43	15.56	316.55	17.04	314.27	30.81	19.51	18.32	8.15	-3.12	-1.16	-1.96	59.71	26.39	0
2000	86	14	292.79	14.1	303.86	15.88	303.82	29.82	17.97	16.15	7.49	-2.62	-1.14	-1.48	59.3	26.17	0

2000	86	15	280.37	15.73	291.38	18.12	294.48	32.75	18.7	16.38	7.63	-2.51	-1.12	-1.39	59.4	25.47	0
2000	86	16	278.33	17.96	288.12	18.09	287.06	28.64	16.01	14.13	7.12	-2.55	-1.11	-1.44	60.06	24.84	0
2000	86	17	282.03	13.73	291.84	15.95	290.77	27.93	16.81	14.63	6.64	-1.94	-1.07	-0.87	59.54	23.76	0
2000	86	18	276.92	11.09	285.39	12.43	281.08	20.27	12.15	10.61	5.01	-1.19	-1	-0.18	58.16	21.25	0
2000	86	19	272.31	6.02	278.5	6.29	275.21	11.14	12.93	10.6	4.47	-0.52	-0.85	0.33	56.49	20.12	0
2000	86	20	303.82	8.51	312.49	9.89	308.33	22.54	13.91	12.07	4.58	-0.52	-0.96	0.44	55.3	20.6	0
2000	86	21	331.52	13.93	343.03	15.42	348.32	21.34	13.48	12.18	6.35	-1.47	-1	-0.46	54.07	22.06	0
2000	86	22	354.9	12.95	15.78	11.99	18.35	15.78	12.8	11.88	7.49	-1.11	-0.6	-0.5	50.07	25.01	0
2000	86	23	8.83	9.49	25.18	8.85	28.17	14.82	6.79	6.39	3.79	-0.84	-0.66	-0.17	47.58	24.42	0
2000	87	0	30.8	10.18	33.17	8.61	21.7	26.87	4.67	4.57	2.68	0.43	-0.58	1.01	44.7	24.03	0
2000	87	1	35.81	11.18	18.41	11.12	11.53	23.01	4.24	4.81	2.93	1.89	-0.03	1.92	42.43	23.4	0
2000	87	2	134.18	18.57	3.44	42.13	327.03	60.61	2.79	2.24	1.79	2.82	0.61	2.21	40.26	22.58	0
2000	87	3	191.97	34.14	355.26	44.88	13.07	18.94	2.76	2.48	2.63	2.87	0.94	1.94	38.8	22.17	0
2000	87	4	218.13	46.15	27.15	13.77	21.29	19.38	1.7	3.87	3.58	3.66	1.02	2.65	37.08	21.47	0
2000	87	5	120.58	39.34	23.65	12.68	24.97	27.26	2.95	4.49	3.04	3.67	1.09	2.58	35.99	20.58	0
2000	87	6	151.07	38.43	72.49	35.68	11.49	29.7	2.11	2.49	2.12	2.73	0.64	2.09	35.64	21.03	0
2000	87	7	178.94	8.57	154.43	27.95	228.19	62.88	4.58	2.16	1.6	0.62	1.04	-0.42	38.8	23.8	0
2000	87	8	156.21	12.91	167.08	17.22	173.63	22.89	5.78	4.78	4.12	-2.1	-0.86	-1.24	44.02	25.43	0
2000	87	9	145.23	8.92	152.93	12.18	158.85	20.51	8.96	8.65	6.21	-3.28	-1.3	-1.99	48.72	26.92	0
2000	87	10	148.36	7.69	161.46	10.45	165.64	17.33	12.68	11.67	8.92	-3.49	-1.36	-2.13	52.43	27.43	0
2000	87	11	144.58	7.43	155.14	9.77	159.83	19.07	15.01	13.88	8.99	-3.63	-1.33	-2.31	54.43	27.3	0
2000	87	12	149.55	7.3	164	9.13	166.7	15.71	13.07	12.48	9.04	-3.16	-1.24	-1.92	55.92	27.28	0
2000	87	13	148.39	6.48	161.82	9.79	163.73	15.83	14.27	12.41	8.71	-2.95	-1.25	-1.7	56.56	27.63	0
2000	87	14	147.2	6.76	160.7	10.09	162.96	16.46	15.67	13.11	8.34	-2.98	-1.2	-1.78	57.04	29.19	0
2000	87	15	142.25	6.4	153.93	9.87	161.39	17.17	16.82	14.27	9.13	-2.8	-1.25	-1.56	57.34	29.83	0
2000	87	16	140.1	7.67	153.3	10.83	160.34	18.85	13.5	11.14	6.39	-2.19	-1.11	-1.09	56.78	28.99	0
2000	87	17	136.54	6.15	147.39	9.79	151.99	21.62	13.94	11.73	5.82	-1.79	-1.03	-0.76	55.74	27.96	0
2000	87	18	134.58	7.61	144.87	11.17	154.82	21.34	11.43	9.17	4.17	-1.57	-0.97	-0.6	54.47	30.76	0
2000	87	19	129.84	9.62	138.29	12.85	142.24	31.87	8.61	6.55	2.74	-1.55	-0.95	-0.6	53.83	33.42	0
2000	87	20	103.06	11.69	96.86	13.36	62.98	25.5	6.92	5.31	2.49	-1.62	-0.91	-0.71	53.2	33.64	0
2000	87	21	100.52	8.41	99.77	12	67.02	25.68	8.78	6.11	2.63	-1.5	-0.82	-0.68	52.7	34.98	0
2000	87	22	101.59	8.87	93.22	18.25	49.95	41.45	8.6	4.88	2.21	-1.2	-0.7	-0.5	52.28	36.52	0
2000	87	23	54.14	23.18	28.89	12.86	10.24	12.99	6.67	6.54	4.32	-0.41	-0.19	-0.22	51.79	36.88	0
2000	88	0	52.93	22.57	35.13	40.27	3.8	45.99	9.55	8.79	5.88	-0.61	-0.32	-0.29	52.41	38.73	0.07
2000	88	1	120.35	11.2	56.6	38.81	22.68	43.09	6.13	3.74	3.55	0.48	0.03	0.45	51.27	39.84	0.21
2000	88	2	74.33	10.72	64.4	13.96	15.79	25.7	12.84	8.7	4.29	0.13	-0.82	0.95	46.52	34.37	0.16
2000	88	3	20.63	21.98	20.66	30.56	12.27	48.6	9.44	7.63	4.55	-1.86	-1.37	-0.49	50.55	38.15	0.28
2000	88	4	81.42	42.32	22.82	36.26	3.39	48.29	7.54	6.56	3.96	0.61	0.5	0.12	46.73	34.58	0.12
2000	88	5	138.26	23.15	112.85	56.07	29.87	28.8	4.43	2.57	2.05	1.6	0.92	0.68	1000	18.52	0.03
2000	88	6	149.97	5.59	155.18	8.21	156.31	18.13	13.93	11.63	5.78	-1.65	-0.74	-0.91	1000	3.79	0
2000	88	7	228.48	20.89	226.76	23.69	211.52	28.37	12.95	9.69	4.54	-1.79	-0.23	-1.56	39.87	18.67	0
2000	88	8	264.77	17.3	274.51	19.23	263.37	39.56	17.46	14.63	6.72	-1.63	-0.66	-0.98	49.94	36.17	0
2000	88	9	263.06	29	274.38	38.75	247.84	59.04	11.14	8.58	4.9	-2.02	-1.01	-1.02	48.48	32.84	0
2000	88	10	241.22	35.55	242.8	38.92	225.74	46.94	9.99	8.7	4.81	-2.12	-1.02	-1.1	47.27	31.14	0
2000	88	11	238.42	11.96	246.07	15.02	249.84	32.75	18.95	16.92	8.09	-2.41	-1.09	-1.32	48.37	30.96	0
2000	88	12	247.56	13.56	254.84	16.27	262.47	30.96	21.87	20.04	8.96	-2.59	-1.07	-1.52	49.21	30.01	0
2000	88	13	255.22	14.82	264.66	18.65	265.73	33.38	24.13	21.8	10.08	-2.86	-1.17	-1.69	50.83	28.78	0
2000	88	14	257.91	14.15	268.54	16.9	271.36	28.32	20.99	18.67	9.54	-2.77	-1.13	-1.64	52.56	28.98	0
2000	88	15	254.48	13.65	263.47	15.87	267.11	28.79	18.71	17.24	8.27	-2.73	-1.1	-1.63	54.48	28.2	0

2000	88	16	218.04	11.36	228.26	14.94	220.95	26.39	10.51	9	4.95	-2.34	-1.05	-1.29	55.8	28.16	0
2000	88	17	188.04	8.57	191.28	10.16	175.82	14.34	13.77	11.67	6.17	-1.27	-0.77	-0.5	56.09	27.78	0
2000	88	18	202.78	7.62	211.24	9.44	194.19	17.03	21.48	18.01	9.81	-1.15	-0.82	-0.33	56.21	26.43	0
2000	88	19	195.8	6.67	203.11	8.64	190.88	14.94	19.49	15.98	9.24	-1.06	-0.79	-0.27	54.52	27.34	0
2000	88	20	196.79	7.46	204.42	9.55	191.21	15.68	19.82	16.61	9.92	-1.38	-0.89	-0.49	52.79	29.12	0
2000	88	21	189.53	5.86	196.83	7.72	185.56	11.84	16.75	13.82	8.35	-1.28	-0.83	-0.45	51.17	30.33	0
2000	88	22	188.07	6.29	194.48	8.01	184.68	14.21	16.92	14.33	8.42	-1.48	-0.89	-0.59	50.39	30.85	0
2000	88	23	196.72	5.68	201.98	8	187.44	13.03	10.8	9.16	5.34	-1.52	-0.9	-0.62	49.63	31.01	0
2000	89	0	196.19	4.99	197.12	6.14	179.37	11.42	10.5	8.95	4.8	-1.4	-0.91	-0.49	48.77	31.06	0
2000	89	1	200.33	4.91	202.93	5.67	183.73	11.62	10.07	8.54	4.44	-1.4	-0.92	-0.48	48.06	31.04	0
2000	89	2	232.71	7.37	232.44	8.42	192.11	31.1	11.29	9.23	3.69	-0.95	-0.72	-0.23	47.05	30.4	0
2000	89	3	266.62	4.89	271.24	9	261.59	23.97	13.54	10.36	4.33	-0.91	-0.7	-0.21	46.56	28.07	0
2000	89	4	238.35	14.07	233.33	13.63	204.39	18.81	7.58	6.47	3.37	-0.85	-0.85	0	45.59	27.08	0
2000	89	5	219.75	18.77	203.94	19.37	168.45	14.37	7.09	6.75	3.5	0.07	-0.69	0.76	44.07	26.23	0
2000	89	6	240.71	15.17	235.93	17.2	199.9	27.74	9.8	7.89	3.9	-1.08	-0.77	-0.31	44.78	24.79	0
2000	89	7	231.03	13.24	230.6	13.05	210.98	27.24	13.48	11.93	6.31	-2.24	-0.99	-1.26	46.85	25.25	0
2000	89	8	237.67	10.42	244.88	13.08	247.49	30.7	21.35	19.01	8.54	-2.49	-1.03	-1.47	48.3	25.77	0
2000	89	9	237.5	11.81	246.75	13.97	246.53	29.88	22.18	20.11	9.76	-2.85	-1.08	-1.77	50.63	26.62	0
2000	89	10	237.03	14.38	246.25	16.22	245.47	32	24.46	21.73	9.79	-2.57	-1.08	-1.49	51.56	26.21	0
2000	89	11	241.83	11.66	251.36	13.91	255.38	28.52	25.41	22.63	10.57	-2.54	-1.04	-1.5	51.12	26.61	0
2000	89	12	236.05	11.54	244.18	13.78	246.15	30.37	25.48	22.58	10.12	-2.42	-1.05	-1.38	50.38	26.66	0
2000	89	13	240.07	9.38	248	11.35	251.17	27.96	24.5	22.64	10.38	-2.33	-1.09	-1.24	50.37	26.44	0
2000	89	14	266.93	10.87	278.8	13.59	284.08	26.06	20.7	18.36	8.58	-2.35	-1.12	-1.23	48.71	28.35	0
2000	89	15	270.75	11.79	280.44	15.63	278.93	23.42	18.31	15.04	7.26	-1.74	-0.98	-0.75	47.03	27.79	0
2000	89	16	262.78	12.21	271.29	15.37	275.68	28.28	21.28	19.1	8.9	-2.21	-1.07	-1.14	48.27	25.22	0
2000	89	17	265.32	11.42	275.83	14.08	276.65	28.01	18.97	16.69	7.68	-1.95	-1.06	-0.89	48.16	24.18	0
2000	89	18	257.75	13.45	265.27	16.56	269.93	28.45	16.12	14.09	6.92	-1.68	-1.02	-0.66	47.39	23.57	0
2000	89	19	255.34	13.55	263.86	15.58	270.43	31.36	13.51	11.62	5.39	-1.6	-0.99	-0.6	47.01	23.71	0
2000	89	20	252.85	14.62	259.65	14.87	261.1	26.88	11.85	10.6	5.24	-1.6	-1	-0.6	46.93	23.93	0
2000	89	21	258.35	10.12	266.53	12.55	271.75	23.68	15.89	13.33	6.08	-1.38	-0.92	-0.46	46.32	23.98	0
2000	89	22	268.25	9.74	279.23	11.83	279.86	26.13	17.54	14.41	6.5	-1.42	-0.99	-0.44	46.13	24.3	0
2000	89	23	273.66	11.96	282.88	15.14	276.33	32.09	16.59	13.32	6.24	-1.5	-1	-0.5	46.15	24.18	0
2000	90	0	257.44	13.3	262.88	15.32	262.82	33.04	12.8	10.32	4.62	-1.43	-0.94	-0.49	45.54	23.48	0
2000	90	1	243.99	14.6	242.13	15.02	220.84	36.19	9.72	8.03	3.3	-1.11	-0.84	-0.27	44.62	23.32	0
2000	90	2	252	7.61	252.28	7.84	231.9	27.85	10.04	7.95	2.64	-0.51	-0.75	0.24	44.01	23.21	0
2000	90	3	237.01	5.37	239.77	5.16	219.93	22.82	11.26	8.97	2.3	1.12	-0.45	1.57	41.9	23.13	0
2000	90	4	228.41	3.34	237.63	3.98	225.99	30.55	14.11	11.15	2.16	0.61	-0.34	0.95	42.13	23.2	0
2000	90	5	222.13	4.06	224.77	3.76	184.37	17.21	9.66	8.74	2.97	-0.01	-0.43	0.42	42.1	22.99	0
2000	90	6	228.67	5.11	229.35	6.61	193.72	16.23	11.5	8.68	3.97	-0.61	-0.69	0.08	42.17	23.3	0
2000	90	7	242.98	7.87	246.42	8.52	244.17	21.15	12.55	10.36	4.94	-1.81	-0.85	-0.96	44.14	24.21	0
2000	90	8	244.39	17.59	247.32	20.96	245.65	30.04	9.36	8.83	5.24	-2.69	-1.14	-1.54	47.49	26.2	0
2000	90	9	263.71	8.73	275.05	11.93	278.06	25.53	15.08	13.86	6.91	-2.72	-1.1	-1.61	48.77	25.09	0
2000	90	10	253.99	21.39	274.74	26.31	274.58	48.57	9.36	8.15	4.74	-2.84	-1.2	-1.64	50.49	25.41	0
2000	90	11	244.64	24.56	258.75	29.08	268.6	39.02	12.28	10.93	5.32	-2.97	-1.18	-1.79	51.51	24.81	0
2000	90	12	307.88	17.88	321.14	18.13	330.56	25.28	10.34	10.03	5.23	-2.95	-1.2	-1.75	51.06	26.98	0
2000	90	13	299.44	21.59	320.11	21.23	331.91	30.17	9.35	8.65	4.68	-2.49	-1.13	-1.36	51.08	26.83	0
2000	90	14	296.35	14.81	307.68	16.61	309.32	28.63	9.93	9.63	4.99	-3.12	-1.27	-1.85	51.98	27.03	0
2000	90	15	297.63	18.98	311.98	20.66	318.55	34.55	9.26	8.34	4.62	-2.85	-1.26	-1.59	52.56	26.59	0
2000	90	16	322.26	11.33	335.76	13.58	332.09	26.41	13.37	12.61	5.86	-2.37	-1.09	-1.28	51.95	25.8	0

2000	90	17	328.76	9.43	342.7	10.13	341.09	21.17	15.74	15.11	6.5	-1.97	-1.01	-0.96	50.74	23.66	0
2000	90	18	327.42	7.55	338.34	10.47	334.57	23.87	18.22	17.54	6.92	-1.71	-1	-0.71	49.14	22.01	0
2000	90	19	323.07	8.66	334.28	9.89	330.43	20.92	18.27	17.22	7.06	-1.72	-1.01	-0.71	48.03	20.97	0
2000	90	20	318.08	7.33	329.69	8.71	328.65	19.73	18.79	17.7	6.96	-1.61	-0.98	-0.63	47.17	20.27	0
2000	90	21	328.28	8.52	339.65	9.99	336.41	18.19	15.99	15.14	6.81	-1.6	-1	-0.59	46.06	20.5	0
2000	90	22	328.99	7.16	339.85	9.66	336.63	20.67	17.45	16.89	7.19	-1.65	-1.01	-0.64	44.51	20.78	0
2000	90	23	321.21	7.13	330.27	7.2	329.11	24.13	14.5	13.67	4.99	-1.56	-0.94	-0.62	43.06	20.49	0
2000	91	0	319.39	4.46	328.34	4.42	327.67	17.32	15.75	15.05	5.84	-1.21	-0.62	-0.59	41.95	20.7	0
2000	91	1	313.83	5.63	327.99	6.29	331.45	20.99	15.1	13.61	5.01	-1.12	-0.57	-0.55	40.97	20.38	0
2000	91	2	308.02	5.11	316.76	6.42	328.63	25.91	17.03	14.91	5.34	-0.8	-0.39	-0.41	39.91	20.37	0
2000	91	3	304.77	4.01	317.58	6.99	338.44	21.51	15.64	12.93	4.59	-1.16	-0.72	-0.44	40.01	20.28	0
2000	91	4	316.83	3.84	322.96	5.14	339.25	28.76	17.63	15.7	4.73	0.18	0.65	-0.47	39.15	20.25	0
2000	91	5	295.67	30.45	300.96	47.25	104.35	51.43	10.12	5.47	2.87	0.25	-0.29	0.54	37.86	18.98	0
2000	91	6	273.01	39.61	203.73	50.46	132.4	18.78	3.78	3.24	2.35	0.02	-0.55	0.56	37.98	19.58	0
2000	91	7	346.07	64.31	137.98	45.44	125.06	48.74	5.59	4.96	3.26	-1.54	-0.86	-0.69	40.54	22.13	0
2000	91	8	305.99	9.68	316.02	13.26	321.92	29.97	11.49	10.72	4.97	-3.07	-1.26	-1.81	44.37	24.63	0
2000	91	9	319.65	16.78	334.63	19.56	343.88	32.13	8.71	7.86	4.96	-3.12	-1.34	-1.77	46.46	25.04	0
2000	91	10	343.88	19.55	355.29	18.98	2.09	24.96	11.62	10.77	7.16	-3.2	-1.31	-1.88	48.11	24.58	0
2000	91	11	350.43	17.09	1.35	17.93	4.71	20.96	10.71	9.7	6.63	-3.06	-1.33	-1.73	49.18	24.14	0
2000	91	12	353.61	15.93	4.75	16.38	5.67	20.19	10.29	9.46	7.04	-2.84	-1.27	-1.57	50.07	24.15	0
2000	91	13	326.85	23.14	341.89	25.86	349.18	31.4	10.59	9.32	5.91	-2.75	-1.17	-1.58	51.07	23.45	0
2000	91	14	284.57	16.37	298.12	20.93	296.28	33.63	14.79	13.25	6.59	-3.07	-1.13	-1.94	52.26	23.99	0
2000	91	15	291.81	13.15	302.13	16.58	298.7	27.72	17.28	15.65	7.53	-2.99	-1.18	-1.81	52.65	24.26	0
2000	91	16	318.27	14.53	330.7	15.08	331.61	24.95	16.99	15.95	7.64	-2.78	-1.13	-1.64	52.76	24.33	0
2000	91	17	327.08	13.18	337.89	14.95	337.5	24.48	13.03	12.54	6.06	-2.32	-1.11	-1.21	52.53	23.99	0
2000	91	18	341.8	11.11	351.73	13.97	350.93	22.27	13.35	12.41	6.28	-1.6	-0.98	-0.62	51.55	23.34	0
2000	91	19	14.73	9.11	26.99	10.54	24.51	13.74	13.62	12.13	7.53	-1.71	-0.95	-0.75	48.67	23.06	0
2000	91	20	14.25	7.24	26.31	9.84	27	14.51	9.38	7.88	4.52	-1.32	-0.88	-0.45	46.48	21.72	0
2000	91	21	357.65	9.16	6.41	8.93	4.06	21.45	5.37	4.71	2.11	-0.31	-0.69	0.38	44.89	21.19	0
2000	91	22	261.49	36.9	72.84	56.51	81.63	38.64	2.53	2.29	2.32	1.46	0.3	1.16	42.32	20.53	0
2000	91	23	200.26	11.83	5.19	51.62	22.28	23.66	2.1	1.34	2.13	2.95	0.82	2.14	39.9	21.08	0
2000	92	0	231.8	29.97	14.27	21.88	20.85	36.58	2.29	3.09	2.32	3.37	1.65	1.72	38.33	20.31	0
2000	92	1	354.55	43.96	37.81	10.46	53.44	33.55	3.22	5.84	3.42	4.39	1.33	3.06	36.83	19.32	0
2000	92	2	309.09	52.16	39.9	19.53	358.44	51.52	2.52	3.48	2.1	5.15	1.29	3.86	35.81	18.48	0
2000	92	3	232.91	49.63	352.27	17.86	21.18	20.4	1.87	3.82	3.36	5.82	1.9	3.92	34.99	18.46	0
2000	92	4	305.59	39.06	37.6	20.21	25.1	23.12	2.14	3.75	2.67	5.88	3.23	2.65	34.33	17.99	0
2000	92	5	28.24	25.21	2.33	12.02	17.69	17.97	4.35	6.31	3.23	5.19	3.39	1.8	33.53	17.76	0
2000	92	6	205.67	11.4	357.22	31.71	35.28	17.65	3.65	1.98	2.8	4.9	3.02	1.88	34.07	18.69	0
2000	92	7	141.18	25.34	98.23	57.94	180.98	39.96	2.25	1.73	1.94	0.47	0.86	-0.39	37.77	20.88	0
2000	92	8	164.34	19.97	185.94	51.04	261.64	43.82	3.2	2.32	2.59	-0.5	0.02	-0.53	42.18	24.01	0
2000	92	9	136.35	12.99	180.81	35.79	226.28	33.55	3.85	3.68	3.82	-1.08	-0.47	-0.61	46.64	25.43	0
2000	92	10	158.4	24.49	166.83	21.97	172.2	27.25	3.77	4.7	4.86	-1.88	-0.63	-1.25	51.13	26.41	0
2000	92	11	211.85	26.99	216.88	32.03	213.58	36.06	5.02	5.04	4.41	-2.53	-1.03	-1.5	55.14	25.31	0
2000	92	12	228.99	26.03	238.44	30.4	230.67	42.71	6.69	6.08	4.97	-2.83	-1.1	-1.73	57.63	24.22	0
2000	92	13	236.53	22.01	242.8	23.38	246.19	38.11	9.73	8.68	5.92	-3.05	-1.27	-1.77	60	24.05	0
2000	92	14	189.53	20.06	187.96	21.25	180.14	26.28	7.43	6.84	5.49	-2.86	-1.15	-1.71	61.94	24.15	0
2000	92	15	183.91	23.99	184.13	20.41	186.54	23.08	5.48	5.73	4.99	-2.46	-1.07	-1.39	62.98	23.47	0
2000	92	16	162.34	12.27	165.38	12.01	158.91	20.92	6.91	6.1	4.33	-2.58	-1.16	-1.42	63.78	23.44	0
2000	92	17	166.06	13.65	167.52	14.87	162.76	18.66	13.86	11.94	6.2	-1.52	-0.55	-0.98	60.33	26.25	0

2000	92	18	146.98	4.44	151.38	6.33	152.35	17.57	16.22	14.49	6.68	-0.25	0.21	-0.45	53.98	26.96	0
2000	92	19	152.7	4.72	152.34	5.67	152.61	16.23	10.66	11.38	4.69	0.19	0.34	-0.14	51.89	25.78	0
2000	92	20	159.41	5.05	154.07	6.01	174.63	20.17	7.62	7.32	2.55	0.39	0.15	0.24	50.29	25.13	0
2000	92	21	148.13	4.53	158.17	10.23	250.61	20.2	6.25	3.36	1.96	0.68	-0.32	1	48.1	27.04	0
2000	92	22	146.29	3.66	167.96	15.68	228.22	32.18	5.14	2.14	1.63	0.68	-0.58	1.25	47.02	27.14	0
2000	92	23	148.42	8.04	237.16	15.73	287.45	29.92	3.99	2.46	1.46	0.84	-0.54	1.38	45.82	26.83	0
2000	93	0	153.75	4	192.11	11.53	179.49	50.44	4.99	3.38	1.43	0.55	-0.12	0.67	46.12	26.47	0
2000	93	1	158.03	6.31	174.97	17.77	346.35	24.45	4.79	2.14	1.54	2.07	0.55	1.51	44.93	26.63	0
2000	93	2	171.55	4.96	221.97	37.71	22.07	39.55	5.91	1.68	1.51	2.91	1.47	1.44	44.74	26.46	0
2000	93	3	158.61	4.91	230.44	38.16	12.18	22.41	4.15	1.25	1.61	2.88	0.5	2.37	43.99	25.89	0
2000	93	4	159.78	5.39	199.61	43.06	322.76	45.71	5.88	2.65	1.49	3.63	0.5	3.13	42.91	26.01	0
2000	93	5	171.26	3.27	193.21	7.33	128.4	74.08	9	4.88	1.49	3.33	0.26	3.07	43.19	26.32	0
2000	93	6	164.96	4.31	163.98	4	355.09	29.02	6.45	4.47	1.29	3.13	-0.33	3.46	42.99	26.79	0
2000	93	7	164.15	4.67	164.46	5.61	325.27	64.29	6.02	4.44	1.23	1.09	-0.54	1.63	45.01	28.39	0
2000	93	8	159.35	6.54	171.12	15.46	191.98	30.74	6.51	5.38	2.68	-0.76	-0.35	-0.4	47.41	29.7	0
2000	93	9	157.78	7.22	175.19	13.01	201.31	21.92	7.28	6.12	4.37	-1.39	-0.67	-0.72	49.27	30.43	0
2000	93	10	153.09	9.97	169.37	15.74	186.87	35.37	6.43	5.76	4.01	-1.91	-0.98	-0.93	52.4	32.57	0
2000	93	11	157.47	10.39	161	11.99	161.44	18.67	9.65	8.65	6.2	-3	-1.18	-1.81	56.7	34.32	0
2000	93	12	159.28	7.99	161.92	8.93	162.21	15.99	12.17	10.19	6.79	-2.35	-0.93	-1.41	58.1	34.76	0
2000	93	13	186.82	7.24	193.89	9.15	185.37	14.85	21.37	18.55	11.75	-2.6	-1.06	-1.54	61.29	36.12	0
2000	93	14	193.76	7.37	204.36	10.99	192.16	16.85	20.41	17.22	11.08	-2.73	-1.2	-1.54	63.97	37.71	0
2000	93	15	189.51	8.49	195.94	11.76	187.28	16.31	19.9	17	11.24	-2.46	-1.05	-1.41	65.85	39	0
2000	93	16	194.72	7.59	203.41	10.39	191.7	15.71	23.84	20.22	12.22	-2.09	-1.01	-1.08	66.23	37.94	0
2000	93	17	193.8	6.74	200.95	8.39	187.89	14.34	18.22	15.64	9.17	-1.4	-0.82	-0.57	65.31	37.33	0
2000	93	18	198.88	6.79	204.74	8.17	187.76	14.27	15.38	13.28	7.21	-0.85	-0.69	-0.15	64.79	37.88	0
2000	93	19	199.71	5.52	204.05	5.25	185.37	13.11	12.45	10.92	5.42	-0.89	-0.87	-0.01	64.47	37.02	0
2000	93	20	187.9	4.35	194.3	5.53	182.63	12.07	15.26	13.79	7.28	-0.7	-0.77	0.07	63.27	38.75	0
2000	93	21	195.3	5.74	200.68	7.11	185.11	12.75	15.85	13.84	7.6	-1.14	-0.84	-0.3	62.58	41.31	0
2000	93	22	198.4	9.87	203.76	11.66	187.93	16.18	12.55	11.29	6.49	-1.52	-0.94	-0.58	61.58	43.12	0
2000	93	23	191.62	5.64	199.43	5.71	182.21	11.15	10.11	8.51	4.54	-1.41	-0.85	-0.56	59.62	44.22	0
2000	94	0	186.3	4.55	186.91	7.99	167.85	10.81	9.68	8.18	3.26	-0.56	-0.62	0.06	58.47	43.92	0
2000	94	1	197.2	6.15	201.08	7.78	184.66	13.75	11.9	9.76	5.07	-1.3	-0.62	-0.68	58	44.31	0
2000	94	2	202.23	22.56	182.63	11.6	136.49	18.98	3.55	4.01	1.95	-0.99	-0.48	-0.52	57.83	44.29	0
2000	94	3	181.47	9.62	173.1	6.81	165.38	20.76	6.56	5.05	2.01	-0.54	-0.42	-0.13	57.81	44.03	0
2000	94	4	162.59	6.42	160.04	7.34	192.06	64.75	6.21	4.86	1.52	0.01	-0.3	0.31	57.09	43.3	0
2000	94	5	156.24	5.44	151.75	6.52	159.14	33.86	6.68	6.42	2.04	0.29	-0.06	0.35	56.82	42.64	0
2000	94	6	153.52	6.81	151.68	8.09	233.76	63.97	6.71	4.99	1.72	1.49	0.2	1.29	55.44	41.48	0
2000	94	7	144.31	8.19	142.69	24.06	229.71	41.01	5.74	3.33	1.98	0.51	-0.18	0.69	55.57	41.58	0
2000	94	8	144.9	3.21	154.3	6.96	166.81	19.26	9.04	6.57	2.75	0.45	-0.32	0.77	55.81	41.7	0
2000	94	9	151.05	4.7	155.8	10.88	172.19	27.43	6.96	6.31	3.58	-1.18	-0.42	-0.76	57.12	42.75	0
2000	94	10	145.16	5.46	152	8.41	157.15	18.13	9.48	8.53	5.14	-2.11	-0.86	-1.25	58.54	43.69	0
2000	94	11	144.6	7.58	156.31	11.24	162.28	18.83	7.99	7.14	5.2	-2.65	-1.2	-1.45	60.31	44.77	0
2000	94	12	142.89	7.76	150.6	10.06	155.01	21.44	8.27	7.6	4.95	-2.79	-1.24	-1.55	61.76	45.29	0
2000	94	13	140.46	6.75	148.58	9.47	149.45	23.35	8.79	8.72	5.19	-2.97	-1.27	-1.69	63.24	46.27	0
2000	94	14	134.92	4.55	145.99	8.01	149.37	21.53	10.23	10.47	5.68	-2.9	-1.18	-1.72	63.69	46.78	0
2000	94	15	144.6	4.62	152.51	8.86	152.95	20.09	13.97	11.22	5.72	-2.45	-0.99	-1.46	63.1	45.93	0
2000	94	16	147.69	4.93	152.8	8.01	154.93	19.11	12.35	11.16	6.07	-1.67	-0.44	-1.23	61.91	45.02	0
2000	94	17	143.86	4.15	152.01	9.39	153.39	20.48	13	9.84	4.9	-1.43	-0.38	-1.04	61.79	45.21	0
2000	94	18	146.03	3.85	153.54	9.59	162.21	18.91	10.93	7.21	3.87	-0.43	0.12	-0.56	60.54	44.81	0

2000	94	19	137.57	2.81	156.5	8.17	218.07	17.94	7.89	4.18	2.51	0.79	0.09	0.7	58.49	43.86	0
2000	94	20	139.07	4.83	164.26	6.95	200.69	16.39	6.89	4.66	3.06	1.35	-0.44	1.79	57.29	43.37	0
2000	94	21	142.2	4.84	161.22	6.21	187.74	24.54	5.33	4.42	1.86	0.7	-0.41	1.11	57.21	43.55	0
2000	94	22	134.33	2.84	157.05	6.27	165.37	15.13	7.82	6.94	3.83	0.07	0.23	-0.16	56.63	43.26	0
2000	94	23	140.8	4.49	173.2	7.26	190.71	29.05	7.22	5.25	2.93	1.42	0.81	0.61	54.2	41.57	0
2000	95	0	150.54	5.96	170.52	8.36	183.61	14.19	10.39	9	5.67	-0.24	0.38	-0.62	54.53	41.86	0.06
2000	95	1	147.55	31.35	162.79	35.4	164.29	51.63	10.25	7.64	3.18	999.99	999.99	999.99	999.99	999.99	0.43
2000	95	2	144.75	4.75	155.41	7.56	160.65	16.98	13.94	10.19	5.44	999.99	999.99	999.99	999.99	999.99	0
2000	95	3	144.25	5.97	157.3	11.59	167.72	20.29	15.43	10.35	5.55	999.99	999.99	999.99	999.99	999.99	0
2000	95	4	150.03	6.61	160.28	12	165.74	18.72	13.93	9.46	5.38	999.99	999.99	999.99	999.99	999.99	0
2000	95	5	158.06	5.82	161.37	9.56	163.7	17.53	11.43	8.56	4.54	999.99	999.99	999.99	999.99	999.99	0
2000	95	6	181.66	13.09	174.28	24.43	157.89	41.93	12.96	8.08	3.64	999.99	999.99	999.99	999.99	999.99	0.05
2000	95	7	164.57	6.59	162.05	16.14	268.66	69.63	9.66	5.63	1.8	999.99	999.99	999.99	999.99	999.99	0
2000	95	8	163.7	5.23	162.06	7.75	199.25	27.1	10.84	6.58	2.99	999.99	999.99	999.99	999.99	999.99	0
2000	95	9	181.37	5.16	187.32	6.42	179.39	15.85	20.52	16.99	8.78	-0.27	-0.25	-0.02	61.92	48.22	0
2000	95	10	185.87	7.86	192.99	10.63	183.33	14.27	22.53	19.05	11.57	-1.14	-0.49	-0.65	63.73	48.81	0
2000	95	11	189.84	8.8	196.64	10.2	186.25	14.14	20.57	17.84	11.73	-1.92	-0.85	-1.07	65.15	48.4	0
2000	95	12	190.65	7.37	197.79	9.15	188.67	14.41	22.77	19.11	11.58	-1.57	-0.76	-0.81	64.88	47.6	0
2000	95	13	188.74	6.97	195.92	9.08	187.44	14.61	22.7	19.56	12.16	-1.76	-0.85	-0.91	65	47.13	0
2000	95	14	195.92	6.5	202.37	8.89	189.43	15.03	18.34	15.62	9.58	-1.68	-0.88	-0.79	64.54	46.64	0
2000	95	15	237.28	12.08	247.05	13.82	243.51	26.81	18.58	15.83	7.49	-1.23	-0.87	-0.36	62.57	44.37	0.03
2000	95	16	279.16	13.91	290.16	16.91	287.68	32.64	14.42	12.59	5.82	-1.7	-1.04	-0.65	60.44	40.97	0
2000	95	17	274.21	16.05	283.93	18.92	283.39	33.45	11.54	9.67	4.93	-1.75	-1.05	-0.71	59.69	39.67	0
2000	95	18	263.88	14.98	270.96	17.07	271.39	30.05	10.43	9.1	4.36	-1.56	-0.99	-0.57	58.99	38.94	0
2000	95	19	259.79	11.43	270.81	14.7	273.43	25	14.49	12.07	5.65	-1.52	-0.99	-0.53	57.69	34.31	0
2000	95	20	277.4	12.04	286.99	13.81	289.75	28.13	22.58	20.3	8.54	-1.71	-0.98	-0.73	54.87	32.82	0
2000	95	21	299.36	9.76	311.26	12.28	310.44	25.8	24.55	22.13	9.17	-2.04	-1.11	-0.93	50.25	28.86	0
2000	95	22	301.58	9.9	312.03	12.07	310.2	29.65	24.91	22.18	8.91	-2.03	-1.13	-0.9	48.67	27.85	0
2000	95	23	297.12	10.38	308.36	11.99	309.15	31.15	26.33	22.74	9.35	-2.01	-1.13	-0.88	47.28	26.42	0
2000	96	0	296.72	13.06	307.96	15.33	309.48	31.13	18.85	16.45	7.34	-1.78	-1.09	-0.69	45.65	24.36	0
2000	96	1	286.74	21.47	301.86	25.38	297.51	47.74	11.2	9.61	4.62	-1.73	-1.09	-0.64	44.89	20.69	0
2000	96	2	278.64	13.61	293.25	15.18	291.64	25.66	18.17	16.09	7.74	-1.79	-1.1	-0.69	44.3	18.37	0
2000	96	3	272.32	14.34	281.42	16.76	278.63	26.48	14.74	12.76	6.05	-1.66	-1.04	-0.62	43.21	16.58	0
2000	96	4	283.04	17.18	291.37	19.58	293.28	36.22	13.88	11.82	5.52	-1.75	-1.08	-0.67	41.81	16.53	0
2000	96	5	292.92	17.3	306.39	19.95	303.77	33.32	14.92	13.31	6.44	-1.85	-1.1	-0.75	40.41	16.18	0
2000	96	6	288.79	15.77	300.91	18.51	299.06	31.89	14.39	12.82	6.27	-2.13	-1.13	-1	40.17	15.31	0
2000	96	7	274.84	12.61	286.36	15.98	286.24	32.22	18.58	16.36	7.51	-2.39	-1.15	-1.23	39.71	15.39	0
2000	96	8	285.54	14.47	296.98	15.81	295.33	28.6	22.76	20.76	9.48	-2.78	-1.21	-1.57	40.27	14.94	0
2000	96	9	291.16	16.33	303.19	19.68	299.36	30.23	19.41	17.94	8.29	-2.72	-1.18	-1.53	40.2	15.05	0
2000	96	10	286.23	13.82	299.05	16.31	300.23	28.03	19.67	17.85	8.42	-2.9	-1.19	-1.71	40.88	15.7	0
2000	96	11	270.06	12.24	281.42	14.14	281.65	28.56	22.92	20.68	9.73	-2.78	-1.14	-1.64	41.25	14.82	0
2000	96	12	275.83	11.97	285.16	14.52	284.01	28.46	24.28	22.03	9.79	-2.88	-1.15	-1.73	41.67	15.03	0
2000	96	13	281.3	12.4	293.06	15.04	291.83	28.53	24.89	22.95	10.76	-3.2	-1.17	-2.04	42.83	15.27	0
2000	96	14	281.09	12.37	292.35	15.69	292.31	28.66	25.5	22.68	10.54	-2.77	-1.19	-1.58	43.02	15.18	0
2000	96	15	279.01	11.39	291.59	14.46	292.22	26.83	26.66	24.47	11.4	-2.63	-1.17	-1.47	43.18	15.95	0
2000	96	16	276.45	14.64	288.04	17.78	290.11	32.43	23.18	20.9	9.6	-2.82	-1.17	-1.65	43.54	16.57	0
2000	96	17	280.37	13.5	291.75	16.22	294.46	31.46	20.21	17.83	8.06	-2.49	-1.19	-1.31	43.39	16.12	0
2000	96	18	280.52	15.58	293.3	17.8	288.17	31.87	14.51	12.72	6.23	-1.9	-1.13	-0.77	42.59	15.1	0
2000	96	19	279.14	18.31	286.71	19.33	287.24	36.86	11.76	10.44	5.31	-1.71	-1.07	-0.64	41.8	14.8	0

2000	96	20	287.14	17.84	296.85	21.67	284.71	40.34	10.1	8.33	4.32	-1.63	-1.06	-0.57	41.21	15.25	0
2000	96	21	277.55	26.18	282.86	28.81	277.68	50.45	7.12	6.4	3.36	-1.58	-1.01	-0.57	40.71	15.12	0
2000	96	22	284.64	19.08	294.53	21.34	283.61	39.33	8.06	6.36	2.92	-1.26	-0.98	-0.27	40.02	15.1	0
2000	96	23	273.76	20.68	281.77	20.19	266.76	47	7.19	5.94	2.87	-1.29	-0.98	-0.31	39.63	15.49	0
2000	97	0	271.77	23.02	264.9	30.24	247.99	66.34	6.31	4.81	2.53	-1	-0.79	-0.22	38.8	15.42	0
2000	97	1	281.66	21.64	269.06	32.28	186.45	55.89	6.45	4.64	2.12	-0.61	-0.68	0.07	38.23	15.3	0
2000	97	2	259.21	15.82	246.44	12.84	218.98	32.64	7.43	6.47	2.2	-0.17	-0.58	0.41	37.56	16.08	0
2000	97	3	242.4	18.23	211.88	18.46	160.59	22.8	6.51	5.71	2.48	0.29	-0.45	0.74	36.39	15.88	0
2000	97	4	250.46	26.75	222.17	28.63	156.66	41.84	4.94	3.61	2.95	-0.49	-0.51	0.02	37.86	15.52	0
2000	97	5	182.35	18.95	167.82	14.72	148.1	26.31	5.41	4.78	2.03	-0.24	-0.54	0.3	37.52	16.86	0
2000	97	6	164.04	15.14	180.86	21.17	189.97	28.01	6.51	6.04	3.41	-1.33	-0.71	-0.62	38.74	18.43	0
2000	97	7	193.16	12.61	218.33	16.57	193.36	26.61	5.51	4.78	2.99	-1.97	-0.92	-1.05	39.62	18	0
2000	97	8	159.02	14.15	172.29	22.69	182.57	29.19	5.32	4.68	3.77	-2.08	-0.95	-1.13	42.29	21.1	0
2000	97	9	159.57	15.3	233.86	55.38	235.1	41.2	5.87	3.94	2.77	-0.58	0.14	-0.71	44.32	22.74	0
2000	97	10	152.98	14.4	145.4	45.18	44.19	61.33	5.68	3.36	2.12	0.34	0.51	-0.17	46.24	24.94	0
2000	97	11	147.94	12.57	169.59	43.37	197.3	50.77	8.93	6.8	5.27	-1.93	-0.68	-1.25	51.83	28.09	0
2000	97	12	146.41	7.95	153.45	9.4	156.08	22.49	11.72	10.99	7.42	-3.39	-1.22	-2.16	57.43	29.9	0
2000	97	13	180.4	14.72	184.94	18.04	180.28	25.55	14.21	12.14	8.11	-3.43	-1.43	-1.99	63.41	33.52	0
2000	97	14	224.33	13.05	232.76	15.25	226.35	29.57	19.29	17.08	8.68	-3	-1.14	-1.86	67.18	35.17	0
2000	97	15	229.31	9.78	238.21	12.49	239.09	32.56	21.37	19.15	8.58	-2.56	-1.02	-1.55	68.54	35.78	0
2000	97	16	226.18	9.9	234.52	11.81	228.29	32.98	17.45	15.64	6.43	-2	-0.97	-1.04	69.39	36.19	0
2000	97	17	214.39	8.25	221.96	9.06	198.23	20.91	15.51	13.26	5.81	-1.1	-0.86	-0.24	69.61	36.62	0
2000	97	18	239.17	13.48	241.84	16.29	220.84	29.82	13.32	11.1	4.16	-0.26	-0.71	0.45	68.79	36.79	0
2000	97	19	319.62	9.11	330.63	9.68	331.37	20.66	30.22	29.44	12.16	-1.45	-1.02	-0.43	63.51	35.06	0
2000	97	20	322.49	11.9	334.64	13.02	336.42	21.91	19.82	18.5	8.15	-1.43	-1.01	-0.42	61.24	32.62	0
2000	97	21	315.43	11.59	328.46	12.31	329.13	20.36	17.83	16.33	6.94	-1.39	-1.02	-0.37	59.63	30.35	0
2000	97	22	301.35	12.16	313.82	13.79	313.88	24.37	19.74	16.91	7.38	-1.49	-1.05	-0.44	58.1	28.83	0
2000	97	23	294.47	12.73	306.09	14.11	308.61	27.28	19.51	16.86	7.62	-1.59	-1.1	-0.49	56.95	27.49	0
2000	98	0	292.41	14.63	305.28	17.5	302.74	36.73	14.01	11.32	4.93	-1.4	-1.02	-0.38	55.87	26	0
2000	98	1	273.73	21.71	277.87	23.04	267.69	39.87	8.79	7.37	3.48	-1.28	-0.99	-0.29	54.81	25.34	0
2000	98	2	288.58	11.19	301.69	14	302.21	32.13	13.7	10.86	4.42	-1.25	-1.12	-0.13	54.03	26.19	0
2000	98	3	309.81	20.82	329.13	23.07	335.92	37.3	10.1	8.45	4.45	-1.46	-1.04	-0.42	53.04	26.45	0
2000	98	4	304.5	15.45	313.99	17.62	312.98	30.07	11.83	10.79	5.18	-1.55	-1.13	-0.42	51.88	25.96	0
2000	98	5	290.19	14.93	294.65	16.26	291.51	37.74	9.5	8.32	3.37	-1.2	-1.04	-0.16	50.7	25.35	0
2000	98	6	286.61	13.14	290.23	13.1	284.37	26.12	12.04	10.54	5.07	-1.65	-1.03	-0.62	50.6	25.78	0
2000	98	7	289.03	12.73	298.55	17.4	292.15	35.74	11.41	9.86	4.53	-2.62	-1.21	-1.41	51.75	27.56	0
2000	98	8	299.47	19.35	313.85	23.23	312.45	36.37	9.82	9.3	4.78	-2.97	-1.15	-1.82	52.9	27.5	0
2000	98	9	293.69	21.63	308.96	22.48	309	30.66	8.15	7.66	4.9	-2.92	-1.21	-1.71	53.7	26.75	0
2000	98	10	261.8	23.36	270.02	31.04	267.84	43.72	6.18	5.72	4.46	-2.93	-1.3	-1.63	55.72	27.2	0
2000	98	11	253.34	45.6	248.71	48.18	241.82	60.42	4.17	4.34	3.76	-2.51	-1.14	-1.37	57.15	26.89	0
2000	98	12	148.66	10.49	160.44	17.34	165.71	24.92	7.21	7.15	5.37	-2.75	-1.24	-1.51	57.96	27.71	0
2000	98	13	139.15	8.48	149.21	10.67	153.04	24.22	8.59	8.61	5.09	-2.97	-1.26	-1.71	58.87	28.32	0
2000	98	14	141.31	7.63	148.2	10.67	151.32	22.96	8.86	8.29	4.89	-2.69	-1.2	-1.5	59.47	28.06	0
2000	98	15	141.29	6.92	148.88	10.32	153.42	23.81	9.35	8.24	4.46	-2.49	-1.1	-1.39	60.32	28.39	0
2000	98	16	147.3	10.7	158.4	14.73	167.49	29.89	7.93	6.4	3.55	-1.94	-0.94	-1	60.7	29.05	0
2000	98	17	148.88	9	154.14	11.13	154.25	21.37	12.9	9.65	4.65	-1.23	-0.49	-0.74	59.02	29.94	0
2000	98	18	137.81	3.75	149.62	7.95	158.89	16.7	13.73	10.56	4.77	-0.73	-0.34	-0.39	56.62	29.09	0
2000	98	19	139.37	2.7	152.75	6.04	163.89	17.55	12.41	8.5	3.18	0.07	-0.09	0.16	55.1	29.14	0
2000	98	20	137.1	3.7	153.08	7.11	174.55	16.49	11.1	7.58	3.78	-0.15	-0.49	0.34	53.43	28.85	0

2000	98	21	141.35	5.6	161.85	9.82	188.95	22.32	8.21	5.14	2.5	-0.46	-0.48	0.03	52.08	28.42	0
2000	98	22	150.21	4.53	167.7	8.36	179.92	17.76	9.86	6.99	3.39	-0.25	-0.37	0.12	51.02	30.01	0
2000	98	23	156.6	5.6	180.76	6.91	189.21	13.02	9	10.13	5.76	-1.24	-0.6	-0.64	51.34	30.99	0
2000	99	0	146.19	6.72	178.39	8.48	194.42	15.09	8.68	7.47	4.16	-0.99	-0.46	-0.53	51.26	31.85	0
2000	99	1	141.94	7.25	184.38	14.32	222.46	24.35	6.24	4.14	2.23	-0.52	-0.1	-0.42	51.31	32.42	0
2000	99	2	140.57	5.43	174.22	9.83	208.39	22	7.54	4.47	1.98	-0.56	-0.28	-0.28	51.9	33.37	0
2000	99	3	139.58	3.58	168.68	10.04	213.18	27.52	6.85	3.82	1.79	-0.9	-0.59	-0.31	52.17	34.34	0
2000	99	4	142.19	6.99	164.18	12.54	203.73	41.76	6.75	4.06	1.93	-1.02	-0.45	-0.58	52.38	36.35	0
2000	99	5	135.88	12.25	166.81	15.88	190.73	36.49	6.37	4.93	2.76	-0.96	-0.35	-0.61	52.24	37.63	0
2000	99	6	137.22	11.48	163.55	15.74	180.05	26.75	5.88	4.34	3.03	-1.32	-0.29	-1.02	51.83	37.98	0
2000	99	7	148.45	11.68	170.3	14.91	173.36	20.51	5.61	5.35	4.63	-2.01	-0.81	-1.21	52.58	38.49	0
2000	99	8	147.74	11.71	159.51	13.32	168.85	18.56	8.24	7.36	5.68	-2.65	-1.17	-1.48	55.43	39.21	0
2000	99	9	140.48	8.28	148.98	12.44	156.18	21.86	12.71	11.23	6.7	-3.45	-1.41	-2.03	59.85	40.58	0
2000	99	10	144.36	5.23	153.01	9	156.46	17.95	20.59	16.68	9.23	-3.67	-1.38	-2.28	63.62	41.81	0
2000	99	11	144.85	6.68	156.31	10.5	160.27	18.71	18.93	15.14	9.36	-3.9	-1.37	-2.53	66.3	42.09	0
2000	99	12	144.66	4.69	155.06	8.73	155.97	18.49	25.41	19.72	10.92	-3.64	-1.23	-2.41	67.63	42.62	0
2000	99	13	148.72	5.1	157.66	8.38	161.08	16.55	26.5	20.79	12.61	-3.39	-1.19	-2.2	70.29	43.51	0
2000	99	14	148.26	4.31	156.94	8.34	158.54	17.08	30.66	23.48	13	-3.11	-0.95	-2.16	69.31	43.63	0
2000	99	15	149.2	4.36	158.22	8.51	159.42	16.61	32.27	24.79	13.81	-2.53	-0.75	-1.77	66.54	43.44	0
2000	99	16	150.54	4.43	159.12	8.58	161.53	15.76	28.98	23	13.59	-1.92	-0.58	-1.34	64.65	43	0
2000	99	17	152.49	4.33	157.84	7.94	158.64	17.32	25.88	21.68	11.56	-0.54	0.19	-0.73	62.91	42.45	0
2000	99	18	148.27	4.31	156.73	8.9	158.7	17.1	27.1	19.62	10.55	-0.7	-0.06	-0.64	60.13	41.7	0
2000	99	19	227.83	21.17	243.14	25.79	240.83	41.82	14.31	11.93	6.25	-1.64	-0.76	-0.88	58.19	41.5	0
2000	99	20	290.28	28.27	291.26	54.63	294.03	74.48	13.17	9.57	4.71	-2.19	-1.09	-1.09	53.64	35.94	0
2000	99	21	298.14	17.5	304.93	37.53	293.72	75.47	19.3	13.38	5.22	-2.15	-1.1	-1.05	51.86	33.4	0
2000	99	22	307.78	11.04	321.04	17.48	340.16	47.46	20.25	15.98	6.04	-2.11	-1.09	-1.01	50.98	33.32	0
2000	99	23	315.86	10.23	326.89	12.54	329.02	40.8	22.41	20.49	7.33	-2.15	-1.05	-1.1	49.43	33.51	0
2000	100	0	335.08	7.14	344.83	9.84	341.32	25.37	19.55	18.32	7.37	-2.03	-0.96	-1.07	48	33.16	0
2000	100	1	339.74	6.01	349.75	10.38	345.53	25.81	22.71	21.66	8.41	-1.98	-1.01	-0.97	47.84	32.72	0
2000	100	2	342.5	7.29	352.56	10.32	351.26	25.47	22.72	21.67	8.85	-1.94	-0.98	-0.96	46.05	31.98	0.03
2000	100	3	320.34	14.88	327.93	17.17	326.49	28.54	17.43	15.42	7.2	-1.94	-0.99	-0.95	41.87	27.66	0.12
2000	100	4	328.6	8.91	339.76	11.12	333.86	28.26	20.37	18.99	7.76	-1.95	-0.92	-1.03	38.31	24	0.02
2000	100	5	321.44	12.58	334.68	12.74	330.17	29.2	20.54	18.51	8.06	-1.85	-0.89	-0.96	36.9	22.47	0
2000	100	6	329.85	12.25	343.05	15.48	340.92	26.93	25.14	22.39	10.04	-1.24	0.37	-1.61	34.6	20.9	0.01
2000	100	7	304.89	18.11	315.75	20.38	320	36.86	22.52	18.97	8.4	0.66	2.35	-1.69	33.04	18.77	0.02
2000	100	8	297.17	14.27	308.51	16.32	310.59	32.12	26.87	23.24	9.71	0.85	2.53	-1.68	30.46	16.89	0.04
2000	100	9	305.91	12.89	317.11	15.19	317.57	30.36	34.12	29.8	13.19	0.32	2.04	-1.72	29.74	15.49	0.01
2000	100	10	303.44	13.44	314.03	14.46	315.16	34.24	27.81	24.24	10.34	0.07	1.71	-1.64	29.3	15.76	0.03
2000	100	11	288.26	13.93	297.47	15.52	297.08	31.79	23.52	20.75	9.29	-0.22	1.44	-1.65	30.01	15.93	0.01
2000	100	12	281.98	12.12	292.46	14.21	294.06	28.39	24.12	20.53	9.18	-0.74	0.91	-1.66	31.66	15.94	0.01
2000	100	13	273.12	13.57	281.61	15.28	283.37	30.12	20.13	17.54	7.93	0.19	1.53	-1.34	34.17	15.61	0
2000	100	14	270.11	13.4	281.03	15.19	282.45	26.96	22.9	19.7	9.74	9.56	10.66	-1.1	37.15	15.05	0
2000	100	15	267.31	14.12	274.59	15.36	276.8	27.85	21.53	18.67	9.08	-1.98	-1.19	-0.79	39.27	12.45	0
2000	100	16	268.06	15.13	281.61	17.93	280.99	27.55	18.31	15.5	7.54	-1.83	-1.07	-0.76	40.98	11.63	0
2000	100	17	278.02	15.67	290.27	17.06	288.64	29.58	15.79	13.73	6.84	-1.81	-1.11	-0.69	41.92	11.17	0
2000	100	18	265.41	15.54	271.68	16.54	271.52	29.64	15.11	13.07	6.26	-1.48	-0.99	-0.49	42.56	10.65	0
2000	100	19	265.54	15.82	273.19	18.21	271.12	31.24	14.16	11.93	5.75	-1.38	-0.97	-0.41	42.73	11.23	0
2000	100	20	259.79	18.84	267.62	22.78	258.65	38.15	12.08	9.47	4.9	-1.41	-0.97	-0.43	42.55	11.98	0
2000	100	21	276.08	15.01	289.96	14.65	287.61	27.71	14.91	12.88	6.41	-1.45	-1.05	-0.4	42.38	13.14	0

2000	100	22	272.37	19.17	278.32	21.11	272.14	36.1	11.65	9.46	4.77	-1.44	-1.01	-0.42	41.52	13.62	0
2000	100	23	260.31	15.77	265.05	18.36	262.9	36.36	17.7	14.48	6.39	-1.34	-0.95	-0.39	40.76	14.1	0
2000	101	0	252.86	12.16	258.46	15.36	259.61	30.69	16.88	14.58	6.6	-1.41	-0.97	-0.45	40.5	14.57	0
2000	101	1	250.23	18.43	250.32	21.24	234.16	50.85	10.91	8.53	3.84	-1.37	-0.94	-0.42	39.47	15.33	0
2000	101	2	242.2	20.94	239.35	22.14	213.03	42.67	9.7	8.2	3.72	-1.28	-0.94	-0.34	39.25	15.01	0
2000	101	3	209.86	19.01	207.37	17.06	182.34	20.41	8.12	7.38	3.68	-1.05	-0.94	-0.11	38.35	15.35	0
2000	101	4	206.24	25.78	195.57	15.15	178.38	15.76	7.14	7.03	3.96	-0.74	-0.88	0.14	37.79	15.76	0
2000	101	5	230.94	29.35	212.33	23.88	185.14	29.15	6.64	5.7	3.32	-1.06	-0.87	-0.19	38.29	15.57	0
2000	101	6	219.96	19.18	217.72	18.06	197.4	24.32	6.25	5.45	3.2	-1.73	-1	-0.72	39.25	17.29	0
2000	101	7	221.82	21.61	220.21	19.13	209.06	27.89	9.36	8.09	5.68	-2.29	-1.06	-1.23	40.68	19.02	0
2000	101	8	270.06	16.6	282.53	21.01	282.19	41.67	14.85	12.92	5.7	-2.85	-1.2	-1.65	42.75	19.91	0
2000	101	9	277.39	13.49	288.04	16.99	289.37	29.56	21.4	19.31	8.64	-3.15	-1.23	-1.92	44.32	20.08	0
2000	101	10	259.84	10.62	270.47	15.08	272.04	28.88	21.67	19.51	9.04	-3.51	-1.24	-2.27	45.78	20.56	0
2000	101	11	266.24	14.12	274.85	16.32	275.47	29.08	20.32	18.37	9.16	-3.57	-1.22	-2.35	46.05	21.03	0
2000	101	12	280.01	10.1	291.26	13.76	290.08	27.35	19.84	18.57	8.64	-3.6	-1.28	-2.32	46.67	20.34	0
2000	101	13	296.1	17.51	306.58	19.4	309.54	31.53	16.69	15.56	7.31	-3.59	-1.34	-2.26	47.24	21.87	0
2000	101	14	283.71	15.38	294.65	16.93	293.33	31.06	20.82	19.19	9.23	-3.41	-1.19	-2.22	48.79	19.55	0
2000	101	15	299.56	16.54	311.05	19	313.64	31.39	17.19	15.97	7.72	-3.36	-1.22	-2.14	49.05	19.75	0
2000	101	16	292.92	15.72	305.38	20.03	306.35	30.84	16.13	14.56	7.08	-3.04	-1.24	-1.8	49.46	17.43	0
2000	101	17	310.12	12.9	322.84	16.36	323.44	32.22	14.01	13.42	6.15	-2.55	-1.14	-1.41	49.01	17.12	0
2000	101	18	323.09	9.7	336.19	11.58	336.65	22.98	14.14	13.76	5.98	-1.87	-1.06	-0.82	47.47	16.54	0
2000	101	19	339.41	11.74	350.42	13.28	353.78	20.4	13.74	12.59	6.37	-1.72	-1.03	-0.69	46.1	16.23	0
2000	101	20	338.94	10.81	350.85	11.86	350.5	22.51	14.53	13.44	7.15	-1.69	-1.01	-0.68	44.6	16.07	0
2000	101	21	336.22	6.46	346.51	9.45	344.61	21.41	13.83	12.36	5.08	-1.63	-1	-0.63	43.14	15.72	0
2000	101	22	337.82	7.07	348.7	11.28	357.93	23	10.54	9.52	4.2	-1.56	-0.97	-0.59	41.8	15.5	0
2000	101	23	349.36	11.12	24.96	15.24	25.43	20.09	6.45	5.75	3.24	-0.75	-0.56	-0.2	39.69	14.74	0
2000	102	0	3.94	9.17	29.81	9.59	31.79	17.73	6.84	7.23	4.48	-1.03	-0.72	-0.31	38.4	14.26	0
2000	102	1	5.17	10.48	24.83	13.45	40.43	28.61	7.26	6.74	3.73	-1.13	-0.71	-0.42	37.41	14.77	0
2000	102	2	25.61	22.85	46.51	20.49	89.97	35.11	3.85	3.93	2.28	-0.66	-0.83	0.17	36.27	14.17	0
2000	102	3	124.67	14.26	134.46	16.65	126.63	15.18	3.77	3.91	1.96	-0.59	-0.83	0.25	35.94	13.46	0
2000	102	4	106.09	7.83	109.57	11.39	60.38	22.23	6.04	5.31	2.08	-0.13	-0.54	0.41	35.47	13.78	0
2000	102	5	122.29	17.76	56.65	32.28	14.5	13.53	3.52	2.63	2.65	-0.13	-0.13	0	35.38	16.59	0
2000	102	6	32.28	11.36	22.31	12.68	26.42	13.94	3.09	4.34	3.79	-0.73	-0.23	-0.5	35.39	16.41	0
2000	102	7	25.56	25.65	25.32	19.6	26.7	28.73	3.61	3.75	3.5	-1.92	-0.97	-0.94	36.55	15.95	0
2000	102	8	3.58	56.95	4.91	30.23	12.93	41.8	2.49	2.7	2.64	-2.02	-1.05	-0.97	37.45	16.17	0
2000	102	9	179.85	35.07	204.72	24.04	206.84	39.65	5.13	5.31	3.92	-2.09	-0.99	-1.1	38.12	17.07	0
2000	102	10	150.73	11.91	161.02	15.52	164.48	21.48	7.98	8.06	5.84	-2.42	-1.07	-1.35	36.88	20.81	0
2000	102	11	159.88	15.09	185.9	16.78	194.52	22.38	5.22	6.01	5.08	-2.21	-0.9	-1.31	37.2	21.83	0
2000	102	12	164.91	20.09	186.49	23.71	190.12	23.17	5.39	5.87	4.57	-2.21	-0.91	-1.29	37.72	22.47	0
2000	102	13	142.03	15.67	161.41	14.47	167.37	25.99	3.48	3.29	2.95	-2.16	-1.1	-1.06	38.46	22.14	0
2000	102	14	88.98	18.78	97.43	24.01	86.88	46.55	5.04	4.78	3.33	-2.29	-1.14	-1.15	39.19	22.96	0
2000	102	15	52.75	17.42	63.26	19.68	53.9	27.4	5.4	5.05	3.82	-2.32	-1.18	-1.14	39.83	23.84	0
2000	102	16	79.67	35.85	84.93	33.94	51.89	60.43	3.51	3.29	2.29	-2.14	-1.12	-1.02	40.71	24.19	0
2000	102	17	109.82	15.06	122.16	18.49	111.3	44.04	4.3	4.16	2.4	-2.23	-1.14	-1.09	41.3	24.54	0
2000	102	18	95.13	9.07	106.93	12.07	106.71	31.22	5.19	4.91	2.44	-2.05	-1.1	-0.95	41	24.81	0
2000	102	19	105.56	8.23	116.42	11.73	104.61	33.21	5.52	4.86	1.83	-1.81	-0.99	-0.82	40.48	25.69	0
2000	102	20	101.97	9.92	113.98	12.59	107.71	31.73	5.75	4.6	2	-1.73	-0.94	-0.8	40.26	25.66	0
2000	102	21	132.62	7.08	145.13	12.27	150.63	22.32	5.77	4.07	2.04	-1.74	-0.93	-0.81	40.15	25.8	0
2000	102	22	136.21	4.49	132.03	9.3	122.42	33.02	4.42	4.43	1.75	-1.64	-0.78	-0.85	40.13	25.84	0

2000	102	23	138.59	9.04	119.62	13.21	87.35	28.24	3	3.04	1.64	-1.56	-0.63	-0.93	40.13	25.98	0
2000	103	0	163.17	15.69	124.86	26.18	71.96	32.49	2.85	2.68	1.9	-1.22	-0.36	-0.86	40.17	26.24	0
2000	103	1	257.28	29.19	249.12	27.21	231.48	45.75	3.69	3.28	1.86	-0.88	0.02	-0.9	40.35	26.76	0
2000	103	2	250.49	14.31	262.84	27.9	262.19	44.29	3.83	3.2	1.68	-0.95	0.01	-0.96	40.58	27.42	0
2000	103	3	342.56	17.66	29.6	25.3	86.15	34.36	3.73	3.2	2.01	-0.98	-0.32	-0.66	40.88	27.59	0
2000	103	4	287.68	51.47	68.99	36.14	116.06	29.19	2.95	2.17	1.73	-0.66	-0.19	-0.48	40.88	27.45	0
2000	103	5	275.47	13.05	268.25	21.74	276	43.96	10.06	7.46	3.38	-0.48	-0.24	-0.24	42.11	27.66	0
2000	103	6	291.6	11.83	298.6	14.41	293.01	30.45	18.16	15.52	7.15	-2	-1.11	-0.89	43.6	26.52	0
2000	103	7	297.54	9.81	309.61	12.82	309.88	30.43	24.04	21.38	8.88	-2.72	-1.23	-1.49	43.38	25.13	0
2000	103	8	292.27	10.73	304.5	12.73	305.52	26.62	21.84	20.3	9.52	-3.14	-1.21	-1.93	43.11	22.72	0
2000	103	9	292.74	13.76	304.64	16.38	305.56	30.5	19.83	18.07	7.89	-3.49	-1.3	-2.19	43.44	21.18	0
2000	103	10	299.03	16.12	311.89	18.99	310.95	30.69	18.47	17.24	8.43	-3.7	-1.21	-2.49	43.71	20.22	0
2000	103	11	314.96	16.47	327.21	17.36	326.47	29.03	19.33	18.27	8.51	-3.63	-1.24	-2.39	44.71	18.8	0
2000	103	12	304	10.2	315.41	12.62	314.71	26.9	26.33	24.44	10.25	-3.88	-1.24	-2.65	45.14	17.97	0
2000	103	13	316.33	14.12	326.91	16.03	324.36	29.94	24.39	22.64	10.04	-3.72	-1.19	-2.53	45.99	18.03	0
2000	103	14	309.59	12.89	320.27	15.24	315.66	25.72	25.17	23.67	10.5	-3.61	-1.18	-2.43	46.46	18.5	0
2000	103	15	313.75	12.26	324.24	15.49	321.24	25.68	25.82	24.5	10.83	-3.35	-1.21	-2.14	45.59	17.29	0
2000	103	16	314.49	14.72	324.35	16.11	319.11	30.85	21.1	20.14	8.86	-3.09	-1.18	-1.91	45.3	15.44	0
2000	103	17	316.33	12.47	326.94	13.37	327.25	25.42	23.98	22.39	9.76	-2.52	-1.13	-1.38	44.27	13.69	0
2000	103	18	319.09	13.37	330.45	16.53	333.23	26.23	17.51	16.42	7.66	-2.05	-1.09	-0.97	43.37	12.4	0
2000	103	19	317.67	16.38	332.92	18.02	338.78	30.96	12.86	11.79	5.81	-1.74	-1.03	-0.71	42.41	11.35	0
2000	103	20	303.77	14.95	315.46	17.27	310.98	33.09	12.08	10.76	4.89	-1.65	-1.09	-0.55	41.61	11.15	0
2000	103	21	296.81	15.9	308.21	18.22	306.6	32.97	11.51	9.51	4.65	-1.59	-1.07	-0.51	40.62	11.4	0
2000	103	22	304.87	14.83	310.85	15.77	303.15	31.6	9.91	8.44	3.95	-1.41	-1.1	-0.32	39.76	12.16	0
2000	103	23	315.06	12.65	318.56	18	315.75	39.05	8.1	6.75	3.04	-1.34	-0.97	-0.37	39.09	12.6	0
2000	104	0	319.77	13.11	327.16	14.29	326.02	24.51	11.55	10.13	4.68	-1.33	-1.01	-0.32	38.64	13.34	0
2000	104	1	313.27	11.55	321.99	13.92	322.68	29.28	14.05	12.41	5.15	-1.71	-1.1	-0.61	38.52	13.67	0
2000	104	2	333.93	15.64	349.67	23.37	0.67	32.89	10.98	9.45	4.39	-1.46	-0.94	-0.52	37.8	13.19	0
2000	104	3	311.37	19.13	318.76	20.38	330.57	33	7.91	7.03	3.44	-1.23	-0.87	-0.36	37.12	13.26	0
2000	104	4	308.01	17.1	331	27.43	2.49	54.35	6.68	5.59	2.59	-0.89	-0.76	-0.13	35.45	13.73	0
2000	104	5	315.12	14.76	336.08	15.48	359.05	43.3	5.67	4.86	2.67	0.07	-0.66	0.73	33.72	13.79	0
2000	104	6	323.1	8.65	2.97	14.64	35.32	11.84	5.33	3.8	3.11	-0.56	-0.53	-0.03	33.98	14.7	0
2000	104	7	352.8	13.07	24.71	24.71	28.69	33.58	3.59	3.5	3.15	-1.89	-0.9	-0.99	36.62	15.92	0
2000	104	8	3.61	14.27	18.44	16.27	18.92	24.69	6.1	5.8	4.64	-2.4	-1.15	-1.26	38.83	14.83	0
2000	104	9	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	1000	1000	1000	999.99	0
2000	104	10	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	1000	1000	1000	999.99	0
2000	104	11	317.53	19.14	330.15	22.74	320.6	34.37	6.54	6.81	4.78	-3.59	-1.45	-2.14	44.77	11.33	0
2000	104	12	263.34	38.04	268.2	43.45	262.91	55.13	5.15	5.11	4.4	-2.91	-1.41	-1.49	45.83	9.19	0
2000	104	13	319.75	50.34	345.38	50.68	332.41	54.23	4.53	4.29	3.58	-2.96	-1.44	-1.52	47.81	8.82	0
2000	104	14	237.3	46.72	256.74	43.69	265.79	46.75	4.54	4.59	4.01	-2.62	-1.34	-1.28	48.41	9.3	0
2000	104	15	141.81	30.99	161.97	26.29	165.28	31.81	6.14	6.51	5.62	-3.09	-1.29	-1.8	49.76	10.11	0
2000	104	16	148.28	9.32	162.79	10.39	162.88	14.98	8.29	8.64	6.26	-3.18	-1.27	-1.91	50.01	12.82	0
2000	104	17	145.91	7.77	162.33	8.18	164.67	11.89	9.74	9.19	7.26	-2.67	-1.17	-1.5	49.7	14.25	0
2000	104	18	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	0
2000	104	19	173.85	6.93	185.43	7.85	180.44	12.02	18.85	17.18	10.15	-1.67	-1.11	-0.56	44.2	20.8	0
2000	104	20	174.24	5	183.91	6.55	177.88	10.59	12.2	11.76	7.26	-1.76	-1.13	-0.64	43.46	20.24	0
2000	104	21	178.98	6.64	190.63	7.59	183.35	10.65	13.32	11.63	6.88	-1.41	-1.05	-0.35	42.44	19.15	0
2000	104	22	183.36	5.21	194.33	6.6	186.95	10.18	13.99	12.53	7.62	-1.44	-1.07	-0.38	41.56	17.91	0
2000	104	23	184.28	6.99	193.6	6.91	185.24	9.63	12.66	11.52	7.43	-1.63	-1.12	-0.51	40.49	18.09	0

2000	105	0	183.81	6.38	193.8	5.99	186.45	7.54	9.21	8.71	5.11	-1.38	-1.11	-0.27	39.42	19.72	0
2000	105	1	189.22	8.83	190.78	8	180.33	9.56	9.66	8.57	4.75	-1.1	-1.05	-0.05	38.69	21.48	0
2000	105	2	181.97	6.52	191.26	6.78	199.98	8.97	7.89	6.85	2.67	-1.06	-1.02	-0.03	37.99	23.76	0
2000	105	3	176.33	5.68	213.77	33.42	255.79	34.22	5.74	4.04	2.02	-0.59	-0.69	0.09	37.28	25.71	0
2000	105	4	186.21	14.63	316.02	49.82	356.07	4.51	3.94	1.87	2.19	0.11	-0.55	0.66	36.09	26.34	0
2000	105	5	214.98	57.86	10.63	7.98	14.88	8.54	1.64	4	2.98	0.42	-0.33	0.75	35.44	26.29	0
2000	105	6	297.97	40.93	18.55	8.11	20.72	12.81	1.11	3.88	3.32	0.35	0.32	0.03	35.79	26.39	0
2000	105	7	226.73	36.8	95.84	31.01	6.74	25.11	2.06	2.34	2.2	-1.57	-0.71	-0.86	38.31	27.09	0
2000	105	8	153.87	13.23	175.7	14.47	174.07	15.78	5.31	6.02	5.15	-2.67	-1.29	-1.38	42.17	27.92	0
2000	105	9	151.93	11.37	169.12	12.78	171.71	15.87	7.1	7.41	6.22	-3.07	-1.33	-1.74	46.24	28.43	0
2000	105	10	143.5	10.19	155.22	11.83	157.04	17.15	9.86	9.5	6.57	-3.84	-1.48	-2.37	49.8	28.18	0
2000	105	11	143.76	8.7	158.28	11.6	162.95	15.82	12.2	11.56	9.1	-3.72	-1.5	-2.23	52.06	25.24	0
2000	105	12	143.5	8.65	155.85	11.45	160.58	17.03	13.27	12.25	8.91	-4.04	-1.58	-2.46	53.34	26.19	0
2000	105	13	141.28	7.51	152.91	10.42	153.35	17.79	13.91	12.73	8.11	-4.36	-1.8	-2.56	54.34	26.51	0
2000	105	14	141.32	7.35	150.26	9.52	149.62	18.27	15.15	15	8.04	-3.91	-1.48	-2.43	54.78	26.01	0
2000	105	15	139.69	5.75	151.32	9.87	152.62	18.45	15.62	14.13	7.91	-3.7	-1.43	-2.28	55.2	27.14	0
2000	105	16	141.67	5.08	154.52	9.16	154.42	16.86	17.97	14.37	7.91	-3.3	-1.37	-1.93	54.87	28.55	0
2000	105	17	145.92	4.37	156.96	7.82	156.89	15.59	19.43	14.97	8.16	-2.43	-1.11	-1.32	53.48	26.03	0
2000	105	18	155.62	4.28	164.04	6.68	161.64	12.67	13.21	12.61	8	-1.54	-0.86	-0.68	51.04	25.64	0
2000	105	19	160.18	3.73	168.08	6.81	164.19	10.4	11.28	10.52	6	-1.2	-0.76	-0.44	49.32	32.33	0
2000	105	20	169.23	3.19	177.15	4.81	173.36	9.04	14.25	12.07	6.61	-1.24	-0.93	-0.31	48.63	35.25	0
2000	105	21	173.85	4.51	186.5	6.76	184.96	7.48	10.37	8.65	4.41	-1.03	-0.86	-0.17	47.77	36.82	0
2000	105	22	174.55	5.24	206.59	9.11	219.71	9.75	6.42	4.77	1.99	-0.82	-0.94	0.11	46.84	35.33	0
2000	105	23	178.7	4.33	211.15	4.74	201.93	2.91	5.57	4.96	1.72	-0.22	-0.95	0.73	45.84	36.65	0
2000	106	0	182.06	3.25	214.13	4.02	194.56	2.4	6.31	6.19	1.49	0.44	-0.53	0.97	44.9	37.71	0
2000	106	1	183	4.09	210.1	4.91	174.33	3.27	7.41	5.2	1.44	1.3	-0.03	1.33	43.91	38.3	0
2000	106	2	182.32	7.43	259.78	14.79	74.17	35.5	5.85	2.9	1.72	1.14	0.13	1.01	43.51	39.06	0
2000	106	3	214.89	17.38	309.8	47.91	355.69	0	2.43	1.53	1.48	1.2	-0.54	1.74	42.69	38.89	0
2000	106	4	150.12	45.59	27.54	17.68	356.37	2.6	1.52	2.07	1.91	1.48	-0.65	2.13	42.8	38.83	0
2000	106	5	28.07	29.96	30.42	6.57	21.37	12.48	3.73	6.68	4.41	1.92	0.66	1.26	43.39	38.83	0
2000	106	6	41.54	10.5	31.69	7.72	9.47	8.54	3.58	3.94	2.67	0.38	0.4	-0.01	45.02	39.6	0
2000	106	7	36.99	11.76	46.68	13.01	36.64	10.04	3.43	2.93	2.76	-0.81	0.03	-0.84	47.31	40.29	0
2000	106	8	99.79	24.05	108.84	25.62	69.85	50.04	3.7	3.65	3.12	-1.57	-0.61	-0.96	49.18	40.91	0
2000	106	9	177.29	14.36	191.26	24.67	179.47	9.91	5.61	4.48	3.86	-2.04	-1.02	-1.03	48.92	42.82	0
2000	106	10	200.35	62.48	214.35	51.86	218.05	41.52	1.98	2.01	2.03	-2.17	-1.12	-1.06	50.08	45.59	0
2000	106	11	150.59	37.14	191.73	49.26	257.96	46.61	2.83	2.79	2.79	-1.7	-0.98	-0.72	52.71	47.24	0
2000	106	12	142.06	41.84	194.69	41.23	208.57	37.24	4.42	5.07	4.64	-2.13	-0.97	-1.16	56.36	49.63	0
2000	106	13	147.18	9.33	164.45	10.21	166.72	14.06	7.25	7.39	6.29	-2.88	-1.27	-1.62	58.41	52.14	0
2000	106	14	144.69	7.78	154.53	10.37	160.66	14.63	9.3	7.61	5.63	-2.97	-1.23	-1.74	58.27	52.93	0
2000	106	15	146.48	5.19	154.58	9.21	158.01	13.71	11.65	9.07	5.66	-3.02	-1.26	-1.75	58.92	53.18	0
2000	106	16	160.95	4.88	157.58	7.26	157.73	11.85	10.2	8.88	5.08	-1.39	-0.25	-1.14	58.64	53.74	0
2000	106	17	167	5.26	158.68	6.86	160.49	10.08	9.86	7.23	3.78	-0.83	0.02	-0.85	59.03	54.51	0
2000	106	18	155.86	4.26	153.12	7.45	158.63	11.57	8.07	8.18	3.32	-0.19	0.32	-0.51	58.39	55.07	0
2000	106	19	154.03	4.32	155.25	6.09	158.37	11.25	8.56	9.52	4.18	-0.35	0.06	-0.41	57.54	55.41	0
2000	106	20	155.33	4.95	153.29	6.96	167.73	10.45	6.33	6.71	2.72	0.06	0.12	-0.06	56.62	55.09	0
2000	106	21	133.1	13.59	113.99	17.67	185.31	0.24	3.26	1.87	1.14	0.56	-0.09	0.65	55.42	54.35	0
2000	106	22	123.44	18.95	344.43	22.71	185.29	0.24	2.22	1.26	1.69	-0.02	-0.39	0.37	55.66	54.64	0
2000	106	23	108.15	9.72	343.45	41.12	185.31	0.16	3.27	1.58	1.12	0.44	-0.08	0.51	55.71	54.8	0
2000	107	0	55.16	19.39	329.89	18.29	185.32	0.28	2.06	2.18	1.45	0.37	-0.25	0.62	55.78	54.8	0

2000	107	1	75.98	19.08	3.64	47.91	185.23	0.37	1.81	2.16	2.22	0.56	-0.44	1	55.57	53.59	0
2000	107	2	12.74	7.38	17.25	6.03	183.71	0.2	4.61	4.24	2.81	-0.15	-0.31	0.16	56.46	53.97	0
2000	107	3	8.5	6.73	12.96	5.86	184.13	0.43	5.07	4.76	2.65	-0.37	-0.39	0.03	56.81	54.1	0
2000	107	4	347.42	10.72	8.11	15.83	184.25	0.22	6.2	3.88	2.06	-0.03	-0.24	0.21	56.97	54.22	0
2000	107	5	356.8	7.47	20.52	25.11	57.2	26.58	6.45	4.31	3.04	0.99	0.1	0.89	56.15	54.58	0
2000	107	6	49.1	14.73	62.13	33.66	32.62	0.21	2.96	2.19	1.76	0.51	-0.12	0.63	56.06	55.09	0
2000	107	7	50.7	40.95	210.76	20.5	32.64	0.22	1.92	2.28	1.54	0.16	0.21	-0.04	56.44	55.56	0
2000	107	8	180.09	57.33	172.83	23.64	31.94	0.42	1.57	2.24	1.41	0.03	0.43	-0.4	57.2	55.64	0
2000	107	9	135.71	10.63	161.58	24.58	26.62	37.95	2.38	2.55	2.34	0.01	-0.19	0.2	56.85	55.83	0
2000	107	10	170.98	15.94	178.97	13.48	182.53	11.17	2.73	3.86	3.9	0.67	1.13	-0.47	57.16	55.69	0
2000	107	11	145.68	14.98	186.35	15.77	222.76	21.8	2.99	3.77	3.82	-1.3	-0.76	-0.54	60.89	56.47	0
2000	107	12	41.42	43.85	186.19	13.35	197.17	18.03	2.65	4.14	4.67	0.04	0.78	-0.74	64.5	53.8	0
2000	107	13	126.57	24.82	184.47	12.51	195.45	15.84	2.81	5.05	5.05	0.82	1.51	-0.69	66.91	47.35	0
2000	107	14	172.74	9.98	172.38	14.47	218.39	19.11	4.84	3.86	3.46	2.35	1.91	0.43	66.24	53.89	0
2000	107	15	168.36	8.41	177.65	16.45	218.95	16.64	5.42	4.17	3.79	1.15	1.27	-0.12	68.6	54.38	0
2000	107	16	133.93	19.11	129.38	50.11	227.59	26.8	4.4	4.29	2.85	0.43	0.17	0.27	70.29	53.99	0
2000	107	17	346.69	7.52	354.86	9.77	1.48	21.59	23.93	23.74	9.76	-1.5	-0.92	-0.58	65.2	51.68	0
2000	107	18	355.56	10.25	5.5	14.61	12.39	16.91	21.85	19.67	10.58	-1.94	-1.04	-0.9	59.1	47.6	0
2000	107	19	359.12	12.82	11.75	15.9	20.91	21.13	17.66	13.49	7.99	-2.11	-1.12	-0.99	56.46	44.8	0
2000	107	20	1.39	11.06	12.83	12.8	15.89	18.22	17.57	15.03	9.14	-2.17	-1.18	-0.99	53.86	43.01	0
2000	107	21	355.25	12.45	3.88	12.71	2.44	15.84	22.94	21.07	10.98	-1.98	-1.11	-0.87	51.64	40.86	0
2000	107	22	353.25	10.84	0.53	11.96	8.4	20.79	20.34	18.95	9.18	-2.03	-1.12	-0.91	49.91	38.56	0
2000	107	23	355.66	10.34	4.77	10.74	6.72	18.53	16.98	14.86	7.13	-2	-1.12	-0.88	48.13	36.52	0
2000	108	0	355.49	12.77	2.95	12.79	5.9	17.83	16.86	15.63	8.15	-2.04	-1.16	-0.88	47.26	34.77	0
2000	108	1	2.75	11.73	14.19	12.51	12.27	14.6	14.07	11.84	7.07	-2.21	-1.23	-0.98	47.32	32.91	0
2000	108	2	0.75	11.64	7.02	12.09	4.82	17.96	11.12	10.17	5.97	-2.17	-1.2	-0.97	47.3	32.67	0
2000	108	3	2.75	10.8	10.59	12.46	12.41	15.62	11.21	10	6.1	-2.23	-1.22	-1.01	47.2	33.31	0
2000	108	4	357.72	11.37	6.68	11.59	8.53	15.39	12.01	11.24	6.67	-2.22	-1.21	-1.01	46.88	33.87	0
2000	108	5	1.5	10.04	7.7	13.42	7	15.25	10.31	9.71	6.05	-2.18	-1.2	-0.98	46.6	34.49	0
2000	108	6	5.29	13.58	13.66	15.08	13.78	17.22	8.07	7.17	4.78	-2.23	-1.21	-1.02	46.74	34.87	0
2000	108	7	17.51	14.88	27.74	18.74	28.2	21.49	7.95	7.22	4.99	-2.28	-1.2	-1.07	47.24	36.09	0
2000	108	8	28.83	10.38	39.05	12.06	31.64	14.71	7.95	7.54	5.98	-2.38	-1.23	-1.14	46.4	39.36	0
2000	108	9	56.16	13.02	68.99	16.1	57.13	20.06	8.43	7.41	4.77	-2.36	-1.25	-1.12	46.71	39.06	0
2000	108	10	55.49	14.97	69.04	18.98	58.34	21.41	5.85	5.21	3.17	-2.07	-1.16	-0.9	46.49	39.64	0.05
2000	108	11	58.23	10.93	59.66	13.29	26.45	5.39	6.2	4.62	3.22	-1.96	-1.01	-0.95	45.67	41.69	0.05
2000	108	12	112.33	11.11	125.62	13.16	119.33	21.45	10.38	8.17	3.25	-1.89	-1.05	-0.84	44.83	41.28	0.04
2000	108	13	97.59	13.18	111.95	17.07	104.72	34.01	11.76	9.2	4.09	-1.81	-1.05	-0.76	44.02	39.5	0.01
2000	108	14	107.73	14.34	124.53	18.41	129.49	24.81	8.77	6.39	2.81	-1.8	-1.03	-0.77	43.55	39.78	0.01
2000	108	15	102.49	11.14	114.96	14.16	106.49	27.63	11.89	9.29	3.52	-1.79	-1.05	-0.74	43.31	39.98	0.01
2000	108	16	90.06	10.61	102.34	14.71	99.56	24.8	9.56	6.91	2.59	-1.68	-1	-0.68	42.89	39.6	0
2000	108	17	85.99	9.51	97.2	13.09	82.73	9.75	8.89	6.6	2.77	-1.59	-1.01	-0.58	42.64	39.34	0
2000	108	18	91.87	10.86	103.2	13.84	88.97	25	10.44	7.94	3.21	-1.65	-1	-0.65	42.32	39.38	0.02
2000	108	19	100.67	10.02	117.74	14.46	113.75	25.74	11.84	8.63	3.05	-1.57	-0.99	-0.58	41.66	38.39	0
2000	108	20	97.28	15.81	110.7	20.01	77.16	0.91	4.73	3.58	1.43	-1.71	-1.04	-0.67	41.73	38.49	0
2000	108	21	91.15	10.18	105.3	14.64	89.03	22.79	10.86	8.09	3.24	-1.59	-1.01	-0.58	41.29	37.67	0.01
2000	108	22	82.97	11.33	102.88	16.2	111.51	12.87	8.12	5.79	2.3	-1.45	-0.94	-0.51	40.76	37.62	0.01
2000	108	23	59.68	15.49	69.25	17.79	58.53	22.06	9.65	7.18	4.08	-1.76	-1.06	-0.71	40.89	37.37	0
2000	109	0	49.17	12.31	59.27	13.09	48.2	15.5	11.89	9.3	5.3	-1.85	-1.07	-0.78	40.18	36.49	0.01
2000	109	1	32.88	9.2	40.42	10.27	30.88	11.57	14.01	11.9	8.21	-2.09	-1.17	-0.92	38.67	35.02	0.01

2000	109	2	22.59	7.98	30.88	8.84	25.16	11.66	13.52	11.65	8	-2.02	-1.17	-0.86	37.91	33.71	0
2000	109	3	12.84	6.66	22.21	8.35	22.2	13.13	14.53	12.25	8.55	-2.14	-1.26	-0.87	38.04	33.09	0
2000	109	4	9.96	8.19	19.69	10.82	19.97	14.22	14.21	11.61	7.79	-2.13	-1.28	-0.85	38.18	32.03	0.02
2000	109	5	6.33	9.89	15.51	10.45	15.31	13.76	13.56	11.15	7.3	-2.17	-1.26	-0.91	37.42	32.89	0.1
2000	109	6	6.31	10.65	15.3	10.01	13.81	15.3	14.31	11.72	7.85	-2.27	-1.18	-1.09	37.06	33.6	0.04
2000	109	7	9.27	8.2	19.1	9.28	17.82	11.97	16.56	13.72	9.45	-2.27	-1.28	-0.99	37.78	33.46	0
2000	109	8	9.03	8.26	19.47	10.42	16.83	13.16	16.62	14.29	9.67	-2.43	-1.34	-1.09	38.59	32.49	0
2000	109	9	7.2	9.19	17.67	11.84	16.37	15.52	14.43	12.08	8.29	-2.54	-1.35	-1.19	39.99	31.8	0
2000	109	10	9.96	10.32	17.4	13.42	13.78	16.26	11.66	9.74	6.9	-2.56	-1.34	-1.21	41.9	32.32	0
2000	109	11	31.68	10.77	42.89	13	33.27	17.07	15.33	13.5	9.4	-2.48	-1.28	-1.2	44.25	31.33	0
2000	109	12	33.2	9.12	44.28	11.28	33.61	14.13	13.49	12.08	8.72	-2.42	-1.25	-1.17	45.04	30.78	0
2000	109	13	29.31	10.22	40.43	12.74	30.38	13.96	13.7	11.47	8.22	-2.38	-1.26	-1.12	45.65	31.36	0
2000	109	14	19.54	10.9	27.69	12.12	20.83	14.26	14.34	12.07	8.63	-2.49	-1.32	-1.17	46.31	31.66	0
2000	109	15	21.48	9.37	31.78	11.19	24.2	15.08	15.13	12.77	8.83	-2.31	-1.24	-1.06	47.17	31.03	0
2000	109	16	29.16	9.17	39.27	11.21	28.7	14.41	14.54	12.71	8.88	-2.17	-1.19	-0.98	47.69	30.56	0
2000	109	17	27.47	7.76	38.98	10.57	31.27	13.5	17.64	15.17	10.22	-2.1	-1.18	-0.92	45.8	34.7	0
2000	109	18	17.98	7.82	28.92	10.32	22.02	12.51	16.13	13.19	8.77	-2.05	-1.16	-0.89	45.42	35.35	0
2000	109	19	19.85	8.41	30.63	10.26	26.02	13.32	17.97	14.96	10.28	-2.05	-1.18	-0.87	45.49	35.24	0
2000	109	20	20.33	10.28	31.34	11.66	24.62	14.2	17.07	14.16	9.45	-2.04	-1.17	-0.87	45.4	35.54	0
2000	109	21	20.47	9.72	32.45	10.76	27.18	14.43	17	14.39	9.74	-2.04	-1.18	-0.87	45.34	35.32	0
2000	109	22	16.53	9.69	28.95	11.47	24.9	13.93	15.73	13.07	8.76	-2.05	-1.19	-0.87	45.36	35.59	0
2000	109	23	4.4	9.32	15.52	9.91	15.27	13.33	15.6	13.36	8.95	-2.34	-1.31	-1.03	44.62	36.8	0
2000	110	0	357.5	10.79	5.83	15.77	12.36	16.16	13.88	11.91	6.7	-2.25	-1.25	-1	43.49	36.96	0
2000	110	1	357.29	9.9	7.22	13.35	14.99	16.72	14.44	12.38	7.27	-2.62	-1.45	-1.17	42.84	37.81	0
2000	110	2	355.72	12.82	3.93	13.87	15.3	17.08	16.37	14.01	7.84	-2.21	-1.3	-0.91	44.06	36.51	0
2000	110	3	354.32	10.02	2.7	14.16	12.51	18.47	16.44	14.92	7.89	-2.57	-1.43	-1.14	43.61	36.5	0
2000	110	4	352.04	9.62	359.68	13.27	9.74	18.69	17.52	15.3	7.93	-2.25	-1.34	-0.91	44.11	35.99	0
2000	110	5	350.53	10.22	358.4	13.67	8.01	19.45	18.64	15.89	7.96	-2.65	-1.6	-1.05	43.82	36.61	0
2000	110	6	350.8	10.76	358.89	13.29	5.72	18.57	19.01	17.03	8.71	-2.28	-1.27	-1	43.91	36.75	0
2000	110	7	353.45	10.56	1.43	13.41	9.32	17.73	17.86	15.99	8.7	-2.39	-1.27	-1.13	44.36	36.77	0
2000	110	8	355.11	8.97	1.27	13.42	7.37	18.84	15.47	13.69	7.48	-2.72	-1.33	-1.39	45.7	37.38	0
2000	110	9	347.29	8.21	355.37	9.59	355.04	20.99	17.4	16.45	7.27	-2.85	-1.21	-1.64	47.73	38.18	0
2000	110	10	344.29	6.58	354.84	10	353.2	21.49	19.24	18.09	8.33	-3.33	-1.35	-1.98	48.97	38.63	0
2000	110	11	344.75	6.79	355.64	10.68	349.1	19.81	18.61	17.69	8.52	-3.49	-1.33	-2.16	49.87	38.92	0
2000	110	12	340.5	7.11	350.16	9.27	342.71	20.85	18.2	17.56	8.02	-3.46	-1.26	-2.2	50.38	39.23	0
2000	110	13	339.56	9.83	345.96	9.61	340.42	19.26	14.97	14.35	6.65	-3.41	-1.28	-2.13	52.71	40.04	0
2000	110	14	334.84	9.93	340.05	10.38	336.23	22.75	13.21	13.13	6.18	-3.53	-1.21	-2.32	56.61	41.59	0
2000	110	15	332.67	6.81	344	8.1	338.31	19.4	13.49	13.81	6.39	-3.14	-1.15	-1.98	59.03	42.7	0
2000	110	16	337.45	6.38	350.22	10.18	346.18	19.22	13.92	13.39	6.02	-3.07	-1.27	-1.81	59.25	42.63	0
2000	110	17	334.51	5.69	347.35	7.9	346.64	21.71	15.45	14.77	5.91	-2.23	-1.1	-1.14	58.41	42.62	0
2000	110	18	339.57	7.44	353.06	10.09	1.96	20.28	12.55	11.19	5.06	-1.52	-0.99	-0.53	57.75	42.62	0
2000	110	19	0.04	9.28	11.09	9.33	7.39	12.95	10.44	9.14	5.09	-1.36	-0.99	-0.37	56.19	42.27	0
2000	110	20	36.25	12.88	54.82	9.48	55.24	12.72	9.26	8.1	3.88	-0.96	-0.87	-0.08	54.37	41.66	0
2000	110	21	46.8	11.19	52.09	13.17	37.77	15.77	8.15	6.72	4.3	-1.86	-1.15	-0.71	51.84	41.82	0
2000	110	22	40.17	9.62	53.34	12.26	43.17	19.39	6.87	5.68	3.15	-1.88	-1.14	-0.75	50.33	41.27	0
2000	110	23	35.47	16.46	44.21	19.09	37.24	17.4	6.1	4.83	2.78	-2	-1.13	-0.87	49.74	41.06	0
2000	111	0	345.48	15.25	353.46	20	344.51	14.28	5.55	4.72	2.42	-1.79	-1.1	-0.69	49.84	41.3	0
2000	111	1	3.14	10.15	20.41	13.6	27.27	10.81	4.99	3.95	2.62	-1.63	-0.95	-0.68	50.18	41.36	0
2000	111	2	322.64	20.48	351.05	23.65	14.58	46.76	3.67	2.73	2.02	-1.09	-0.61	-0.48	49.82	41.6	0

2000	111	3	200.21	19.53	219.26	18.61	171.4	6.56	1.88	2.5	1.78	-0.29	-0.68	0.39	49.48	42.26	0
2000	111	4	335.6	23.37	18.51	19.29	96.3	19.27	2.38	3.11	1.98	-0.2	-0.16	-0.04	49.6	42.31	0
2000	111	5	1.11	11.33	32.93	10.61	33.98	19.16	3.5	4.12	2.16	-0.44	-0.19	-0.25	49.7	42.3	0
2000	111	6	5.96	19.89	34.04	26.27	46.95	14	2.44	2.77	1.57	-0.84	-0.12	-0.71	49.8	42.59	0
2000	111	7	37.86	15.42	30.07	22.51	354.32	12.28	2.81	2.15	2.03	-1.59	-0.76	-0.83	50.29	42.52	0
2000	111	8	13.98	10.68	6.2	14.37	346.72	12.65	3.84	3.53	2.83	-1.73	-0.89	-0.84	51.79	42.3	0
2000	111	9	0.22	13.92	345.93	14.71	341.16	16.73	3.66	4.09	3.32	-2.46	-1.13	-1.32	54.37	42.63	0
2000	111	10	6.53	12.45	15.48	14.74	9.02	21.14	5.29	5.41	4.31	-2.64	-1.22	-1.42	57.02	43.39	0
2000	111	11	211.84	37.78	213.05	34.71	203.74	23.44	5.13	5.54	4.8	-2.97	-1.28	-1.69	59.62	44.1	0
2000	111	12	179.67	30.1	193.22	31.39	193.91	24.41	5.65	6.62	6.05	-2.34	-1.04	-1.29	61.06	44.27	0
2000	111	13	206.09	7.85	198.25	11.83	176.07	9.33	5.73	5.03	4.09	-2.12	-1.07	-1.05	61.2	44.07	0
2000	111	14	147.63	17.89	146.81	16.05	154.71	13.69	3.01	3.37	2.41	-2.14	-1.02	-1.12	61.63	44.48	0
2000	111	15	149.97	4.72	159.47	8.03	159.47	12	9.86	7.63	4.3	-1.4	-0.49	-0.9	59.65	44.78	0
2000	111	16	173.2	12.94	175.88	16.31	168.44	12.97	8.95	6.53	3.4	-1.44	-0.61	-0.83	59.85	45.23	0
2000	111	17	144.67	4.97	156.05	9.01	155.79	14.67	13.01	10.31	5.18	-1.67	-0.79	-0.89	58.74	44.75	0
2000	111	18	161.57	4.3	172.15	6.48	167.51	12.3	12.62	12.61	6.68	-1.24	-0.73	-0.5	56.89	44.85	0
2000	111	19	151.79	4.46	159.28	8.58	155.43	14.18	12.05	9.97	5.24	-1.44	-0.67	-0.77	54.02	44.07	0
2000	111	20	158.34	4.44	169	7.3	164.87	12.58	11.67	11.51	6.83	-1.75	-0.99	-0.76	52.79	42.18	0
2000	111	21	148.11	5.54	156.41	9.17	157.6	13.47	9.59	7.92	4.1	-1.83	-0.97	-0.87	51.49	41.56	0
2000	111	22	139.75	4.72	151.47	8.66	152.86	14.43	10.42	8.78	4.16	-1.98	-1.14	-0.84	50.82	41.24	0
2000	111	23	146.86	5.55	160	8.1	162.03	13.14	11.17	8.87	5.37	-1.99	-1.13	-0.86	50.26	41.2	0
2000	112	0	147.35	4.54	160.3	7.42	162.9	13.11	14.37	10.94	6.79	-2.02	-1.12	-0.9	49.58	41.31	0
2000	112	1	144.65	5.72	160.14	8.91	160.36	14.63	12.11	9.98	5.77	-2.02	-1.13	-0.88	48.95	41.13	0
2000	112	2	146.05	7.53	163.06	10.73	165.99	15.48	9.5	8.11	5.48	-1.94	-1.11	-0.83	48.47	41.28	0
2000	112	3	145.71	7.79	162.98	11.25	167.23	12.84	8.96	7.02	4.55	-1.95	-1.1	-0.85	48.36	41.1	0
2000	112	4	140.47	7.48	155.97	10.49	162.83	14.53	9.13	7.48	4.28	-1.96	-1.11	-0.85	48.24	41.32	0
2000	112	5	135.96	8.31	150.44	12.6	160.34	14.16	8.29	6.33	3.24	-1.87	-1.11	-0.76	47.98	41.92	0
2000	112	6	127.5	10	140.57	13.08	147.37	24.46	10.17	7.7	3.25	-1.79	-1.04	-0.74	48.02	42.9	0
2000	112	7	130.27	10.96	144.65	14.96	152.52	23.1	10.27	8.38	4.21	-1.85	-1.07	-0.78	48.73	43.1	0
2000	112	8	112.8	13.59	124.81	18.1	126.29	33.56	12.25	9.32	3.93	-1.81	-1.06	-0.75	48.27	43.92	0
2000	112	9	111.68	15.33	123.22	15.92	121.4	32.23	11.03	8.69	3.71	-1.89	-1.08	-0.82	47.78	43.66	0.01
2000	112	10	105.75	13.8	115.42	16.57	105.53	29.36	10.86	8.1	3.43	-1.67	-0.93	-0.75	47.22	44.25	0.01
2000	112	11	100.93	25	119.32	36.01	101.69	45.42	10.1	7.7	3.59	-1.79	-1.01	-0.78	47.07	43.97	0.08
2000	112	12	74.86	17.87	78.71	25.39	54.07	34.08	9.19	6.58	3.45	-1.74	-0.97	-0.77	47.02	43.9	0.07
2000	112	13	64.37	16.88	64.65	23.12	58.88	29.82	8.2	6.25	3.18	-1.85	-1.05	-0.8	47.18	43.73	0.06
2000	112	14	43.94	16.28	48.23	20.16	30.27	24.76	9.94	8.13	4.89	-1.83	-1.03	-0.8	46.79	43.54	0.14
2000	112	15	57.09	13.61	65.91	18.53	46.53	21.12	11.73	9.31	5.31	-1.84	-1.05	-0.79	46.22	42.52	0.06
2000	112	16	66.19	13.88	74.18	19.11	57.44	25.87	12.69	9.25	4.97	-1.73	-1.02	-0.71	45.98	42.28	0.1
2000	112	17	39.19	17.4	41.92	20.72	20.35	26.46	12.3	9.83	6.42	-1.83	-1.08	-0.74	46.18	42.14	0.04
2000	112	18	29.47	13.21	34.35	13.94	24.75	18.82	15.3	12.29	7.79	-1.75	-1.01	-0.74	45.61	42.24	0.36
2000	112	19	37.34	17.21	39.85	19.79	16.67	24.08	13.8	10.76	7.24	-1.9	-1.12	-0.78	46.07	41.64	0
2000	112	20	35.69	13.93	43.17	16.4	27.41	19.43	15.46	12.26	8.09	-1.88	-1.12	-0.76	46.46	40.99	0
2000	112	21	29.3	13.14	36.66	12.63	24.81	15.18	15.59	12.75	8.94	-1.91	-1.11	-0.8	46.17	40.7	0
2000	112	22	35.32	12.93	43.89	14.35	30.05	17.66	14.36	11.53	8	-1.96	-1.12	-0.83	45.92	39.97	0
2000	112	23	30.06	12.85	35.83	12.93	24.18	15.6	13.3	11.28	7.49	-1.87	-1.1	-0.77	45.52	40.64	0
2000	113	0	13.11	11.63	21.03	13.95	16.71	16.41	14.69	11.77	8.08	-1.91	-1.12	-0.79	45.47	41.52	0.01
2000	113	1	14.32	8.34	24.39	10.28	22.13	13.2	15.45	12.66	8.54	-1.99	-1.18	-0.81	45.61	41.06	0
2000	113	2	12.22	8.28	22.59	10.39	21.05	13.09	15.11	12.14	8.19	-1.9	-1.06	-0.83	44.81	41.55	0
2000	113	3	355.58	11.8	3.33	14.16	8.71	19.75	17.12	14.48	7.66	-2.16	-0.97	-1.19	44.29	41.76	0

2000	113	4	352.89	10.84	0.26	13.39	10.5	20.36	19.83	17.21	8.68	-2.33	-1.01	-1.31	44.15	41.39	0
2000	113	5	351.43	9.57	0.41	15.82	13.59	20.62	20.53	17.62	8.9	-2.54	-1.15	-1.39	44.26	41.14	0
2000	113	6	351.48	9.36	358.82	14.92	6.21	22.42	21.09	18.58	8.55	-2.59	-1.11	-1.48	44.35	41.08	0
2000	113	7	349.31	10.95	356.76	11.63	4.63	24.42	22.47	19.87	8.78	-2.64	-1.1	-1.53	44.2	40.98	0
2000	113	8	347.73	8.4	357.31	12.7	8.03	21.72	22.1	19.09	8.82	-2.67	-1.13	-1.53	44.1	40.83	0
2000	113	9	345.12	7.68	357.92	12.67	4.89	20.79	20.48	17.78	8.69	-2.89	-1.27	-1.62	44.38	40.69	0
2000	113	10	348.07	6.79	0.83	12.41	4.58	19.13	19.1	17.26	8.88	-2.98	-1.24	-1.73	44.72	40.61	0
2000	113	11	348.47	6.48	2.19	13.55	6.65	17.64	20.48	18.14	9.59	-3.04	-1.21	-1.83	44.76	41.14	0
2000	113	12	349.58	6.2	1.55	15.08	2.53	19.92	20.22	18.38	9.61	-3.13	-1.16	-1.97	45.73	40.96	0
2000	113	13	348.84	7.35	1.12	13.41	0.99	20.27	19.68	18.09	8.69	-3.15	-1.46	-1.7	46.15	41.19	0
2000	113	14	349.12	6.83	0.33	12.28	1.12	21.07	18.63	17.43	8.81	-3.05	-1.72	-1.33	46.31	41.24	0
2000	113	15	348.77	6.11	359.91	14.56	0.46	20.69	19.1	17.62	8.26	-2.75	-1.53	-1.23	46.36	41.19	0
2000	113	16	350.65	7.89	1.74	12.13	4.88	18.64	19.26	17.76	8.88	-2.34	-1.23	-1.1	46.03	41.26	0
2000	113	17	350.73	9.31	1.16	12.65	5.39	20.57	19.45	17.84	8.55	-2.57	-1.37	-1.2	45.42	40.84	0
2000	113	18	351.68	7.71	1.88	12.45	4.49	19.03	18.29	16.52	7.99	-2.48	-1.23	-1.25	44.95	40.93	0
2000	113	19	350.17	6.33	0.67	10.73	4.28	19.12	18.96	17.03	8.2	-2.44	-1.38	-1.06	44.93	41.11	0
2000	113	20	354.77	10.45	4.74	11.51	8.55	17.54	18.86	17.32	9.17	-2.49	-1.17	-1.32	45.01	40.93	0
2000	113	21	355.68	9.39	4.19	12.42	9.59	15.53	19.28	17.49	9.43	-2.44	-1.22	-1.22	44.83	40.94	0
2000	113	22	356.88	12.44	5.48	12.25	9.32	16.65	16.49	15.05	8.55	-2.23	-1.32	-0.91	45.1	40.19	0
2000	113	23	352.77	8.28	1.82	10.83	5.92	16.52	15.03	14.19	7.48	-2.11	-1.2	-0.91	45.04	40.03	0
2000	114	0	345.17	6.79	356.39	9.86	356.94	20.09	15.86	14.72	6.73	-2.05	-1.18	-0.87	44.68	40.13	0
2000	114	1	347.05	7.11	358.64	11.41	359.52	19.74	17.33	15.94	7.51	-2.08	-1.23	-0.85	44.52	39.73	0
2000	114	2	348.18	6.17	0.76	13.23	3.5	18.48	18.31	16.45	7.91	-2.36	-1.37	-0.99	44.04	39.73	0
2000	114	3	355.07	11.01	5.04	10.11	8.34	16.14	16.49	14.44	7.68	-2.27	-1.35	-0.92	43.93	39.76	0
2000	114	4	347.02	9.5	357.85	11.7	1.65	20.2	17.49	15.64	7.23	-2.34	-1.39	-0.96	43.92	39.32	0.01
2000	114	5	347.07	5.85	358.27	10.71	0.79	19.09	20.76	18.89	8.66	-2.67	-1.38	-1.29	43.5	39.62	0.05
2000	114	6	349.33	6.86	0.12	12.58	3.93	18.85	19.03	17.05	7.74	-2.59	-1.63	-0.96	43.91	39.58	0.01
2000	114	7	349.64	5.27	359.86	13.54	6.71	19.47	19.23	16.89	7.3	-2.7	-1.58	-1.12	43.91	39.93	0.03
2000	114	8	345.19	6.23	355.98	12.67	359.18	20.94	19.43	17.04	7.13	-2.76	-1.7	-1.06	44.13	40.22	0.08
2000	114	9	347.32	6.83	359.23	10.9	2.4	20.23	19.72	17.45	8.05	-2.82	-1.64	-1.18	44.51	40.39	0.02
2000	114	10	344.69	6.26	356.74	10.91	351.87	20.83	18.91	16.78	6.8	-3.04	-1.5	-1.54	44.75	40.83	0.01
2000	114	11	332.53	7.67	346.23	8.82	337.1	18.36	12.59	11.34	4.53	-2.51	-1.73	-0.78	45.28	41.23	0
2000	114	12	332.1	13.5	348.4	16.33	343.96	21.48	11.17	10.02	4.89	-2.34	-1.59	-0.75	45.86	41.2	0
2000	114	13	346.04	12.69	7.51	11.47	11.88	15.73	10.41	8.63	5.36	-2.14	-1.3	-0.84	46.2	42.22	0.02
2000	114	14	8.22	16.52	14.38	13.12	15.93	16.3	2	6.28	4.06	-1.88	-1.05	-0.83	46.27	42.93	0.07
2000	114	15	45.82	20.75	345.96	19.69	345.86	28.16	0.5	8.53	4.47	-1.84	-1.07	-0.77	46.81	42.35	0.01
2000	114	16	17.78	9.9	320.93	14.79	322.64	26.33	0.5	13.39	5.92	-1.9	-1.2	-0.7	46.52	41.23	0.03
2000	114	17	12.46	12.94	325.58	20.41	328.42	29.6	0.5	12.47	5.67	-1.78	-1.16	-0.63	46.75	40.26	0
2000	114	18	0.33	15.91	324.22	21.52	328.46	30.72	0.5	10.23	4.75	-1.86	-1.2	-0.66	46.91	38.28	0
2000	114	19	29.64	10.9	321.24	16.99	329.34	27.83	0.5	12.3	6	-1.87	-1.23	-0.64	46.65	37.64	0
2000	114	20	33.07	17.78	314.11	22.9	319.39	31.59	0.5	8.81	4.29	-1.82	-1.18	-0.65	46.25	36.94	0
2000	114	21	23.69	9.14	308.24	14.92	305.93	29.41	0.5	10.73	5.02	-1.92	-1.25	-0.68	45.81	37.1	0
2000	114	22	19.64	10.4	293.65	13.81	288.11	25.69	0.5	11.6	5.48	-1.84	-1.2	-0.64	45.53	36.6	0
2000	114	23	28.49	8.65	305.72	14.58	306.38	26.98	0.5	13.77	6.45	-1.98	-1.22	-0.76	45.89	36.76	0
2000	115	0	8.46	16.23	309.03	23.06	313.11	33.3	0.5	9.39	5.02	-1.79	-1.16	-0.63	46.26	36.01	0
2000	115	1	322.09	17.88	300.68	20.79	297.81	37.11	1.26	9.62	4.63	-1.58	-1.14	-0.44	46.06	35.46	0
2000	115	2	284.07	18.4	287.15	21.29	278.52	38.76	10.64	9.09	4.14	-1.46	-1.04	-0.42	45.84	35.18	0
2000	115	3	291.19	25.37	293.87	27.62	278.79	51.52	9.25	7.53	3.94	-1.51	-1.03	-0.48	46.26	35.44	0
2000	115	4	302.28	16.91	313.12	21.93	313.93	42.63	11.42	9.08	4.06	-1.38	-1.09	-0.29	47.19	36.22	0

2000	115	5	330.45	30.58	346.2	30.09	338.31	49.57	10.44	8.89	5.24	-1.51	-1.04	-0.47	48.44	36	0
2000	115	6	335.5	30.41	352.47	30.21	341.06	49.44	11.21	8.94	5.49	-2.06	-1.16	-0.9	50.11	36.08	0
2000	115	7	323.37	44.36	323.13	52.89	317.92	47.13	9.55	8.25	4.73	-2.55	-1.27	-1.28	51.8	36.36	0
2000	115	8	315.09	17.66	340.38	18.65	338.37	29.48	16.9	15.08	7.62	-2.73	-1.25	-1.48	53.89	35.91	0
2000	115	9	310.71	19.38	339.5	20.69	339.3	29.55	14.57	13.01	7.19	-3	-1.3	-1.7	56.88	34.37	0
2000	115	10	293.49	15.41	330.98	19.12	329.27	27.57	19.91	18.3	8.7	-3.15	-1.32	-1.83	60.1	31.66	0
2000	115	11	338.37	14.27	355.73	16.35	357.27	22.33	18.72	17.35	9.53	-3.25	-1.31	-1.94	61.87	30.88	0
2000	115	12	320.11	13.68	332.82	16.1	330.21	27.78	19.15	18.07	8.46	-3.4	-1.31	-2.09	63.75	29.66	0
2000	115	13	316.24	16.65	328.43	18.57	327.76	30.78	18.13	16.72	8.23	-3.44	-1.38	-2.06	65	29.48	0
2000	115	14	327.23	18.29	340.65	17.89	334.84	26.85	15.63	13.8	7.05	-3.36	-1.33	-2.02	65.82	29.57	0
2000	115	15	336.99	19.27	348.41	19.55	344.54	27.54	12.73	11.77	6.63	-3.32	-1.45	-1.86	66.43	31.59	0
2000	115	16	349.25	10.44	359.31	13.67	356.26	23.13	11.66	10.57	5.91	-2.86	-1.29	-1.57	66.16	31.85	0
2000	115	17	353.87	10.11	2.9	12.34	357.15	20.2	11.12	9.53	5.01	-2.11	-1.12	-1	65.59	32.25	0
2000	115	18	6.68	6.32	17.62	8.95	12.36	13.97	14.18	12.1	7.24	-1.66	-1.03	-0.63	63.19	34.92	0
2000	115	19	7.31	4.16	17.04	6.97	11.64	12.57	14.24	12.04	7.04	-1.37	-1.02	-0.34	60.36	36.14	0
2000	115	20	3.44	7.67	14.83	8.51	9.74	12.42	14.43	11.87	7.02	-1.51	-1.04	-0.47	58.26	35.56	0
2000	115	21	0.32	9.01	7.58	9.74	10.18	14.13	13.36	12.58	7.05	-1.46	-1	-0.46	56.12	35.45	0
2000	115	22	6.4	8.93	15.72	12.33	16.34	14.29	9.92	7.61	4.03	-1.36	-1	-0.37	54.66	34.52	0
2000	115	23	358.03	9.37	6	8.87	8.44	15.35	11.6	10.91	5.7	-1.48	-1.02	-0.47	52.8	34.82	0
2000	116	0	3.66	7.52	10.4	5.86	4.08	14.4	10.17	9.51	5.5	-1.56	-1.08	-0.48	51.24	34.02	0
2000	116	1	359.77	8.44	4.57	7.36	4.56	14.06	7.76	7.44	4.04	-1.54	-1.04	-0.5	50.03	34.28	0
2000	116	2	359.97	7.04	9.35	6.93	17.47	10.12	6.28	5.61	3.17	-0.76	-0.69	-0.06	48.66	34.73	0
2000	116	3	4.96	9.57	15.32	8.22	35	10.26	6.87	6.61	4.01	0.54	-0.32	0.86	46.79	34.98	0
2000	116	4	15.94	8.2	19.13	5.19	33.33	8.75	8.13	7.55	5.56	1.41	0.03	1.38	44.91	34.98	0
2000	116	5	38.73	6.87	41.78	5.35	26.51	8.85	13.35	10	5.98	0.79	-0.2	1	43.62	34.58	0
2000	116	6	15.69	9.34	23.98	12.84	22.84	13.57	11.13	7.97	5.14	-1.45	-0.84	-0.61	45.13	32.79	0
2000	116	7	22.54	11.87	29.27	13.28	27.9	15.54	10.61	9.06	7.26	-2.5	-1.34	-1.16	47.06	32	0
2000	116	8	35.7	12.21	46.07	15	33.77	19.47	12.83	11.88	8.57	-2.97	-1.43	-1.54	49.87	30.85	0
2000	116	9	38.87	15.29	47.76	17.18	35.89	20.51	11.68	10.96	8.56	-2.96	-1.36	-1.61	51.97	30.02	0
2000	116	10	27.42	17.89	35.7	22.87	22.63	25.9	10.34	9.35	7.09	-3.05	-1.37	-1.67	54.35	29.43	0
2000	116	11	64.19	25.08	75.41	25.96	56.38	32.89	12.09	10.71	6.88	-3.29	-1.53	-1.75	57.37	28.71	0
2000	116	12	64.47	16.64	76.42	19.84	61.59	32.69	12.61	10.97	6.52	-3.39	-1.49	-1.9	58.37	28.66	0
2000	116	13	36.4	20.47	45.42	22.82	39.94	28.19	9.34	8.04	5.14	-2.69	-1.34	-1.35	58.32	29.26	0
2000	116	14	128.12	23.81	142.44	22.56	136.16	27.59	9.83	11.03	7.09	-2.8	-1.23	-1.57	56.7	31.99	0
2000	116	15	163.79	3.7	177.59	6.95	176.56	11.93	12.42	13.42	9.32	-2.84	-1.28	-1.56	53.91	33.13	0
2000	116	16	170.94	3.62	185.18	8.1	181.73	12.66	12.1	10.59	7.33	-2.41	-1.13	-1.28	53.46	33.18	0
2000	116	17	144.15	8.02	162.92	10.29	166.48	13.87	9.87	9.84	6.22	-2.02	-0.96	-1.06	52.52	34.35	0
2000	116	18	123.83	8.02	134.99	13.42	144.16	21.1	13.14	10.46	4.57	-2.24	-1.23	-1.01	50.6	33.42	0
2000	116	19	115.07	19.27	131.13	26.99	136.11	21.97	6	5.18	2.68	-2	-1.16	-0.84	48.59	32.68	0
2000	116	20	134.52	35.06	149.17	28.27	164.86	8.12	3.13	2.73	1.78	-1.7	-1.1	-0.6	47.5	33.08	0
2000	116	21	90.11	46.51	142.83	17.78	173.66	9.36	2.33	2.45	1.6	-1.32	-0.94	-0.39	46.73	32.83	0
2000	116	22	13.64	16.24	9.02	32.63	351.59	18.72	5.11	3.88	2.52	-1.33	-0.84	-0.49	46.82	33.99	0
2000	116	23	41.05	11.57	52.7	15.04	45.93	19.49	12.89	10.39	6.17	-1.84	-1.08	-0.76	47.19	27.21	0
2000	117	0	29.33	9.91	40.15	12.26	32.28	14.43	13.54	11.28	7.65	-2.06	-1.17	-0.88	46.49	27.22	0
2000	117	1	47.04	8.11	60.41	11.16	50	19.07	16.5	14.19	8.31	-2.12	-1.18	-0.94	44.84	27.98	0
2000	117	2	30.99	8.42	44.26	11.28	34.93	15.23	14.74	12.65	8.44	-2.13	-1.17	-0.96	44.16	28.84	0
2000	117	3	17.82	8.51	29.98	11.17	26.88	13.61	14.57	12.53	8.51	-2.19	-1.25	-0.94	43.77	28.94	0
2000	117	4	12.15	7.78	23.4	11.52	18.35	13.71	15.28	12.67	8.49	-2.26	-1.3	-0.96	43.75	29.05	0
2000	117	5	9.89	9.18	19.59	11.96	18.91	14.72	14.94	12.71	8.52	-2.32	-1.32	-1	43.6	28.67	0

2000	117	6	5	11.8	15.22	13.18	12.64	16.82	14.58	12.17	7.81	-2.49	-1.35	-1.14	43.62	28.56	0
2000	117	7	9.87	7.09	21.47	10.19	16.95	15.3	15.92	13.94	9.26	-2.59	-1.35	-1.25	43.84	27.34	0
2000	117	8	10.05	9.9	20.82	12.84	16.67	16.18	13.74	11.68	8.43	-2.57	-1.36	-1.22	44.11	27.5	0
2000	117	9	7.78	14.19	16.85	17.97	15.95	18.83	11.77	10.54	6.74	-2.66	-1.34	-1.32	44.43	27.44	0
2000	117	10	20.36	11.21	30.39	13.43	22.79	18.87	10.89	9.89	7.09	-2.67	-1.33	-1.34	45.1	26.91	0
2000	117	11	17.7	12.7	27.09	16.62	23.09	17.83	11.58	10.47	8.09	-2.83	-1.41	-1.42	45.88	27.26	0
2000	117	12	18.78	11.92	30.91	16.92	24.41	19.76	11.49	10.55	7.9	-2.93	-1.4	-1.54	46.33	28.08	0
2000	117	13	8.14	13.88	16.96	13.71	12	19.62	10.71	9.7	7.28	-2.74	-1.35	-1.39	46.46	29.39	0
2000	117	14	351.76	8.01	359.09	15.05	5.99	20.16	11.22	9.75	5.21	-2.66	-1.31	-1.34	46.32	30.41	0
2000	117	15	9.3	9.71	18.47	13.47	15.57	16.29	11.22	10.03	7.08	-2.5	-1.33	-1.17	45.85	31.74	0
2000	117	16	35.88	14.61	49.89	15.75	41.74	19.61	8.84	7.99	5.58	-2.41	-1.27	-1.14	44.96	32.63	0
2000	117	17	43.42	9.46	54.44	11.22	43.19	14.19	9.62	8.74	6	-2.42	-1.26	-1.16	43.8	32.24	0
2000	117	18	46.66	10.25	57.83	13.14	45.27	18.6	10.77	9.45	5.92	-2.25	-1.21	-1.05	41.32	33.06	0
2000	117	19	36.02	8.83	48.32	11.15	40.27	16.1	9.1	8.03	4.95	-2.05	-1.15	-0.9	40.1	33.49	0
2000	117	20	41.28	8.22	57.16	11.09	47.86	18.33	9.72	8.56	4.94	-2.04	-1.14	-0.91	39.58	32.96	0
2000	117	21	14.6	11.09	30.29	13.97	31.72	16.27	8.26	7.11	5.11	-2.06	-1.14	-0.92	38.65	33.38	0
2000	117	22	354.95	9.62	4.79	14.42	7.28	20.52	7.66	6.62	4.03	-2.14	-1.21	-0.93	38.58	33.2	0
2000	117	23	353.88	9.07	1.38	10.55	359.74	17.48	7.33	7.1	4.22	-2.15	-1.2	-0.95	38.67	32.85	0
2000	118	0	346.98	10.98	353.26	11.61	356.05	18.2	6.98	6.43	3.76	-2.06	-1.19	-0.88	38.87	32.86	0
2000	118	1	353.57	7.96	6.58	7.25	3.39	16.35	7.73	7.69	4.91	-2.07	-1.15	-0.92	38.74	33.07	0
2000	118	2	353.32	13.72	5.69	12.42	358.2	14.54	5.89	5.41	3.58	-2.02	-1.16	-0.86	38.83	32.93	0
2000	118	3	327.74	21.11	348.12	18.62	348.01	23.67	5.25	5.2	3.18	-1.94	-1.11	-0.83	38.87	32.62	0
2000	118	4	331.64	21.07	342.67	23.22	348.18	17.49	4.73	4.33	2.46	-1.9	-1.13	-0.76	38.86	32.42	0
2000	118	5	356.26	59.61	168.73	41.91	226.02	18.49	2.29	1.8	1.69	-1.57	-1.1	-0.47	38.7	32.47	0
2000	118	6	3.76	65.15	185.59	43.7	129.85	55.97	2.6	2.28	1.92	-1.97	-1.14	-0.83	39.38	33.02	0
2000	118	7	334.65	38.28	329.42	38.6	308.78	42.23	2.97	2.99	2.5	-2.44	-1.22	-1.22	40.68	33.35	0
2000	118	8	324.23	46.75	349.3	38.25	35.76	46.43	3.33	3.58	3.1	-2.69	-1.28	-1.41	42.93	33.54	0
2000	118	9	161.99	19.35	171.93	20.96	175.72	27.34	4.53	4.68	3.91	-2.62	-1.26	-1.36	44.87	32.93	0
2000	118	10	191.36	47.84	231.55	46.32	244.94	52.68	2.87	3.27	3.01	-2.4	-1.08	-1.32	46.63	33.52	0
2000	118	11	173.88	53.5	205.65	42.42	201.27	41.02	4.85	5.02	4.7	-2.73	-1.25	-1.48	49.28	34.21	0
2000	118	12	168.39	13.25	173.13	15.99	171.47	20.58	5.57	5.45	4.68	-2.53	-1.12	-1.41	49.59	34.39	0
2000	118	13	156.64	12.59	169.72	14.68	173.53	19.92	6.7	6.84	5.8	-2.85	-1.3	-1.55	50.99	35.12	0
2000	118	14	149.19	7.7	160.07	9.34	160.4	16.02	7.77	7.07	4.88	-2.63	-1.24	-1.39	50.68	35.81	0
2000	118	15	187.11	9.14	198.6	11.97	188.33	15.42	8.91	7.94	5.57	-2.66	-1.29	-1.37	51.37	36.29	0
2000	118	16	180.6	10.27	189.94	12.45	177.56	15.69	9.92	9.11	6.19	-2.55	-1.28	-1.26	51.58	36.5	0
2000	118	17	196.18	9.44	205.16	11.23	186.41	15.34	9.76	8.25	5.29	-2.13	-1.16	-0.97	51.37	36.93	0
2000	118	18	168.66	4.72	177.44	6.21	169.59	10.58	11.02	10.03	5.26	-1.57	-1	-0.58	50.08	37.98	0
2000	118	19	163.61	3.74	170.98	5.47	162.94	8.1	9.97	8.27	3.69	-0.92	-0.87	-0.04	48.7	38.32	0
2000	118	20	161.18	4.72	169.71	6.17	167.66	10.13	8.88	7.77	3.87	-0.89	-0.87	-0.02	47.87	38.94	0
2000	118	21	161.26	5.13	172.24	7.91	177.41	9.32	8.27	6.98	4.11	-1.26	-0.95	-0.31	47.06	39.32	0
2000	118	22	182.94	4.91	190.42	3.6	180.47	6.63	8.9	7.42	3.3	-0.49	-0.79	0.29	45.64	38.95	0
2000	118	23	183.52	3.16	199.98	4.29	185.39	2.77	8.6	5.8	2.66	-0.06	-0.32	0.27	44.35	38.48	0
2000	119	0	204.7	5.34	197.34	10.62	175.47	12.58	6.31	5.53	1.83	0.5	-0.15	0.65	43.64	38.31	0
2000	119	1	193.81	3.85	194.88	5.41	170.08	8.71	8.23	6.81	2.63	-0.04	-0.19	0.15	44	38.62	0
2000	119	2	184.14	6.21	185.56	8.14	175.78	8.99	8.46	5.65	2.16	-0.4	-0.49	0.09	44.17	38.78	0
2000	119	3	173.06	8.48	187.22	9.94	174.2	10.96	6.75	4.29	1.39	-0.03	-0.5	0.47	43.74	39.01	0
2000	119	4	188.22	7.87	186.95	8.36	186.1	11.49	9.49	6.84	3.11	-0.94	-0.84	-0.1	44.51	39.34	0
2000	119	5	190.74	5.78	189.71	7.68	178.48	9.11	6.95	5.04	2.72	-1.34	-0.92	-0.42	45.17	39.15	0
2000	119	6	182.35	6.69	189.23	8.57	178.17	10.27	8.2	6.36	3.51	-1.69	-1.02	-0.67	45.92	39.49	0

2000	119	7	182.91	15.12	180.1	13.38	170.85	15.26	6.01	5.03	3.55	-2.12	-1.13	-0.99	47.27	40.41	0
2000	119	8	248.28	32.26	267.57	36.43	254.73	41.87	5.14	4.17	2.89	-2.27	-1.19	-1.08	48.8	40.06	0
2000	119	9	247.79	24.92	250.1	26.65	237.29	34.12	5.68	5.27	3.64	-2.52	-1.29	-1.23	50.57	38.69	0
2000	119	10	338.87	26.04	2.58	28.46	10.45	36.67	5.32	5.2	4.31	-2.48	-1.22	-1.25	51.96	37.72	0
2000	119	11	0.8	21.4	15.84	24.39	5.05	29.37	6.27	6.03	4.93	-2.59	-1.33	-1.25	53.72	36.02	0
2000	119	12	0.79	9.78	9.67	9.37	6.34	15.62	11.2	10.3	6.51	-2.47	-1.26	-1.21	53.32	34.94	0
2000	119	13	6.92	34.03	14.67	38.34	343.63	46.93	5.31	5.07	3.66	-2.57	-1.24	-1.32	54.32	32.96	0
2000	119	14	322.94	42.98	317.96	58.52	263.25	57.85	4.79	4.27	3.51	-2.77	-1.43	-1.34	56.93	32.04	0
2000	119	15	338.29	28.58	341.88	29.55	346.55	27.27	5.01	4.95	3.82	-2.89	-1.41	-1.48	58.29	31.24	0
2000	119	16	8.44	18.66	21.93	20.06	18.41	24.78	5.45	5.26	3.89	-2.33	-1.19	-1.14	57.96	31.25	0
2000	119	17	6.53	12.15	15.41	16.28	11.51	16.96	5.46	5.07	3.63	-2.33	-1.22	-1.11	58	31.57	0
2000	119	18	31.79	13.96	40.99	15.64	24.93	16	4.26	4.15	2.62	-1.7	-1.15	-0.55	57.49	32.21	0
2000	119	19	91.42	21.28	103.26	16.92	66.77	35.5	5.79	5.37	2.25	-0.16	-0.48	0.32	54.87	33.95	0
2000	119	20	181.18	7.8	176.94	8.95	162.64	10.96	8.69	6.85	2.82	0.15	-0.41	0.57	51.66	40.5	0
2000	119	21	222.53	8.69	223.76	19.56	170.94	1.12	4.12	2.94	1.65	0.08	-0.81	0.89	50.73	40.87	0
2000	119	22	214.52	20.89	350.89	28.32	18.1	47.1	1.82	2.11	2.71	2.71	0.02	2.68	47.56	38.59	0
2000	119	23	338.64	25.27	20.29	8.69	22.38	14.45	1.37	5.97	3.88	3.81	0.83	2.98	45.64	36.82	0
2000	120	0	26.63	21.16	18.36	5.79	28.5	10.93	2.52	6.83	4.45	5.21	3.33	1.88	44.34	36.5	0
2000	120	1	326.24	49.91	14.21	6.52	29.36	8.4	1.71	6	3.89	5.44	4.39	1.04	42.91	36.12	0
2000	120	2	186.11	15.29	6.25	9.66	27.3	9.38	3.01	4.36	2.98	4.16	3.33	0.83	41.97	36.31	0
2000	120	3	336.46	24.11	19.94	5.61	24.48	8.18	3.18	6.23	4.82	6.4	4.59	1.82	41.28	36.05	0
2000	120	4	310.84	12.34	21.68	6.4	33.78	11.66	6.58	8.06	7.23	8.55	3.74	4.81	40.85	35.94	0
2000	120	5	340.82	5.38	10.79	6.73	30.59	5.38	11.02	9.52	9.67	5.85	1.62	4.23	42.02	36.62	0
2000	120	6	358.67	8.15	22.05	6.8	28.89	7.47	8.92	8.83	7.4	1.29	0.36	0.93	44.49	36.84	0
2000	120	7	356.05	8.81	6.21	10.07	4.23	16.81	12.31	10.85	6.67	-2.23	-0.94	-1.3	49.03	36.5	0
2000	120	8	349.26	8.9	350.58	9.72	349.7	22.31	11.06	10.9	5.44	-2.41	-0.93	-1.48	52.88	36.07	0
2000	120	9	342.51	8.06	347.13	13.05	344.2	24.85	10.21	10.06	5.08	-3.16	-1.2	-1.96	57.16	35.03	0
2000	120	10	348.41	14.59	355.09	19.55	356.02	24.35	8.97	7.98	4.92	-3.2	-1.48	-1.72	59.98	33.3	0
2000	120	11	330.63	25.45	332.2	21.57	322.17	24.47	6.57	6.53	4.36	-3.73	-1.65	-2.09	63.03	32.87	0
2000	120	12	344.38	14.72	353.89	18.78	353.7	27.14	14.34	12.45	7.1	-3.51	-1.41	-2.1	65.44	32.3	0
2000	120	13	352.89	14.81	3.31	16.55	358.8	25.64	17.75	16.46	9.31	-3.6	-1.37	-2.23	67.29	31.74	0
2000	120	14	334.36	9.36	345.44	11.51	338.55	24.06	15.72	14.8	7.03	-3.39	-1.25	-2.15	67.73	33.47	0
2000	120	15	338.24	10.27	348.39	13.91	343.06	24.36	13.63	12.56	6.28	-3.18	-1.31	-1.87	68.47	32.8	0
2000	120	16	342.05	11.13	351.57	13.01	346.11	25.03	12.53	11.62	5.93	-2.72	-1.21	-1.51	69	31.68	0
2000	120	17	351.23	52.1	28.02	48.45	258.27	34.03	9.43	7.91	3.72	-1.62	-0.63	-0.99	67.84	32.19	0
2000	120	18	118.23	34.55	147.15	31.11	155.32	26.18	8.52	6.33	3.78	-0.57	-0.27	-0.3	63.75	35.07	0
2000	120	19	158.22	5.65	160.95	15.31	164.61	45.41	11.15	7.02	3.1	-0.09	0.1	-0.18	59.67	37.91	0
2000	120	20	180.23	6.01	166.42	6.84	162.65	10.34	10.54	7.89	3.07	1.53	0.58	0.95	56.73	39.51	0
2000	120	21	182.56	6.4	169.54	6.04	164.03	9.05	9.61	7.64	3.1	1.21	0.23	0.99	55.21	39.44	0
2000	120	22	170.73	5.97	166.4	4.98	168.66	9.59	9.21	6.3	2.77	0.92	0.12	0.81	53.69	39.24	0
2000	120	23	165.44	5.09	167.07	5.48	167.38	5.72	7.23	5.1	2.21	0.89	0.17	0.72	52.77	40.7	0
2000	121	0	143.21	7.52	87.68	33.96	136.56	30.54	3.86	1.94	1.86	0.51	-0.51	1.02	51.95	41.25	0
2000	121	1	118.41	47.96	53.59	24.46	36.97	9.23	2.23	2.51	2.86	2.9	0.02	2.88	49.78	40.28	0
2000	121	2	274.17	44.84	76.13	24.65	40.58	19.44	2.89	3.1	2.37	5.93	1.6	4.33	47.94	39.91	0
2000	121	3	323.58	35.16	49.8	40.17	27.47	37.65	7.31	5.02	3.2	4.87	1.9	2.97	48.59	39.47	0
2000	121	4	345.79	10.66	5.23	12.71	19.15	17.05	19.7	16	8.15	0.36	-0.02	0.37	52.82	37.66	0
2000	121	5	339.16	6.9	349.26	10.05	352.93	22.23	22.68	21.53	9.09	-1.65	-1.03	-0.61	52.81	38.6	0
2000	121	6	343.42	6.78	355.05	10.34	356.42	21.5	23.46	21.68	10.06	-2.27	-1.19	-1.09	51.03	38.11	0
2000	121	7	347.1	6.52	358.53	13.84	357.97	21	21.78	19.92	9.06	-2.78	-1.24	-1.54	50.46	33.98	0

2000	121	8	351.37	9.57	2.51	15.12	3.3	18.42	20.56	18.46	9.89	-3.08	-1.33	-1.76	52.49	33.53	0
2000	121	9	344.86	11.04	357.76	13.24	356.56	22.84	20.83	18.92	9.79	-3.33	-1.32	-2.01	54.89	30.48	0
2000	121	10	335.28	12.49	347.25	14.85	344.9	25.79	22.22	20.87	9.72	-3.43	-1.29	-2.14	56.51	25.19	0
2000	121	11	340.81	15.22	352.4	17.55	355.65	27.29	22.47	20.5	10.59	-3.76	-1.38	-2.37	58.28	22.2	0
2000	121	12	324.36	17.55	336.43	19.84	336.31	30.92	22.1	20.42	9.51	-3.76	-1.35	-2.4	59.78	18.71	0
2000	121	13	310.53	23.43	321.89	26.49	316.96	37.79	21.65	19.47	8.85	-3.88	-1.49	-2.39	60.91	17.8	0
2000	121	14	317.13	21.23	327.85	22.81	324.79	30.85	22.16	20.08	9.03	-3.56	-1.36	-2.2	61.8	15.81	0
2000	121	15	311.43	14.3	323.67	15.21	318.67	28.2	23.46	21.39	8.85	-3.47	-1.31	-2.16	62.05	14.68	0
2000	121	16	302.46	15.31	315.21	17.92	308.77	32.93	22.37	20.72	8.73	-3.14	-1.32	-1.82	61.8	14.15	0
2000	121	17	304.88	11.53	316.92	14.27	317.99	27.97	21.09	19.23	7.81	-2.63	-1.28	-1.36	60.97	12.51	0
2000	121	18	298.9	8.43	310.46	11.24	310.05	24.96	21.99	19.56	8.1	-2.07	-1.23	-0.84	59.32	13.54	0
2000	121	19	305.29	10.65	317.62	12.94	315.41	25.72	21.63	19.29	7.08	-1.73	-1.14	-0.59	57.05	15	0
2000	121	20	315.78	9.82	329.09	11	327.43	24.98	22.18	20.35	8	-1.65	-1.11	-0.54	55.63	16.42	0
2000	121	21	330.88	16.19	343.18	17.85	346.76	26.27	15.38	13.41	6.71	-1.76	-1.12	-0.65	54.34	17.6	0
2000	121	22	333.18	14.08	345.34	16.56	336.55	22.24	14.32	12.62	6.71	-1.63	-1.07	-0.56	53.52	18.43	0
2000	121	23	324.56	11.88	338.48	12.05	331.89	18.23	13.52	12.04	5.03	-1.32	-1	-0.32	52.78	19.51	0
2000	122	0	325.57	8.18	346.98	16.44	2.03	25.9	14.31	11.58	4.34	-0.12	-0.39	0.27	50.96	21.37	0
2000	122	1	328.01	26.43	16.82	26.91	66.6	14.63	4.81	4.04	2.11	0.66	-0.33	0.98	48.22	19.9	0
2000	122	2	166.85	13.78	119.92	24.21	23.8	14.84	2.6	2.07	2.09	2.15	0.31	1.84	45.56	23.56	0
2000	122	3	142.33	11.53	32.63	34.44	24.86	14.46	3.11	1.63	1.96	3.96	0.43	3.53	42.46	25.85	0
2000	122	4	184.21	15.21	336.38	22.06	6.46	10.79	3.02	2.44	2.35	4.61	0.63	3.98	41.13	27.31	0
2000	122	5	206.47	7.28	119.12	42.55	46.49	0.22	4.3	1.5	1.23	4.94	1.92	3.02	40.5	27.01	0
2000	122	6	187.35	8.58	202.59	30.94	40.64	18.06	7.13	2.63	1.27	2.2	1.55	0.65	42.75	29.05	0
2000	122	7	165.35	18.29	174.89	31.55	242.78	48.8	4.31	2.34	2.25	-0.63	0.02	-0.64	46.07	29.59	0
2000	122	8	163.25	14.3	181.79	16.35	181.24	24.19	5.37	5.15	4.1	-2.29	-1.06	-1.24	51.56	29.14	0
2000	122	9	147.5	9.89	158.64	12.15	164.04	17.54	9.4	8.74	6.56	-3.35	-1.42	-1.93	56.9	26.02	0
2000	122	10	156.8	7.52	166.82	9.25	165.7	15.19	12.93	12.54	8.58	-3.4	-1.42	-1.99	58.59	25.17	0
2000	122	11	158.67	6.85	169.87	9.23	166.69	15.67	14.52	15.15	9.45	-3.58	-1.54	-2.03	59.89	24.11	0
2000	122	12	150.59	6.67	161.01	9.34	164.07	15.12	16.17	13.97	9.71	-3.32	-1.4	-1.91	59.58	27.15	0
2000	122	13	146.71	5.44	158.18	9.04	158.17	17.33	20.77	16.89	10.19	-4.01	-1.64	-2.37	60.39	27.75	0
2000	122	14	145.45	5.15	156.73	8.9	155.46	18.37	20.28	16.6	9.35	-3.76	-1.51	-2.25	61.39	29.25	0
2000	122	15	144.83	6.21	154.13	9.97	152.33	19.95	17.08	13.78	6.95	-3.09	-1.16	-1.93	62.02	31.99	0
2000	122	16	145.39	5.3	155.12	9.26	154.94	18.02	18.43	13.9	6.64	-1.97	-0.74	-1.23	60.9	33.4	0
2000	122	17	143.86	6.03	160.6	10.81	167.12	15.98	15.55	11.19	6.85	-1.93	-0.92	-1.01	59.13	35.48	0
2000	122	18	150.14	5.03	164.76	8.48	169.8	12.36	11.95	9.82	6.7	-1.69	-0.92	-0.77	57.09	35.71	0
2000	122	19	148.48	2.53	155.89	7.1	159.05	10.95	10.61	8.01	3.76	-1.12	-0.55	-0.57	56.28	37.06	0
2000	122	20	145.23	2.47	157.18	6.55	166.08	11.41	10.42	6.43	2.99	-1	-0.59	-0.41	56.06	37.98	0
2000	122	21	147.13	2.86	156.43	6.78	160.34	7.13	8.85	5.96	2.41	-0.82	-0.56	-0.26	55.33	39.4	0
2000	122	22	147.82	4.37	156.53	8.89	157.9	1.53	5.8	3.63	1.44	0.02	-0.69	0.71	53.39	43.24	0
2000	122	23	111.3	15.76	25.78	26.02	33.7	27.21	3.17	2.79	2.42	-0.17	-0.45	0.29	53.19	43.34	0
2000	123	0	146.37	26.25	22.08	42.5	21.68	15.44	1.54	2.1	1.92	0.31	-0.62	0.93	52.33	44	0
2000	123	1	174.08	12.31	207.87	24.09	141.45	17.02	4.4	3.11	1.94	-0.03	-0.24	0.21	51.83	44.77	0
2000	123	2	189.82	15.33	232.7	27.9	181.13	17.93	4.18	2.4	1.53	0.14	-0.26	0.4	52.15	43.87	0
2000	123	3	167.95	11	172.49	47.95	99.24	47.52	4.89	1.76	1.61	1.64	0.97	0.67	51.26	45.41	0
2000	123	4	157.4	9.17	185.69	35.33	95.46	19.66	5.17	2.5	1.53	0.1	-0.14	0.24	50.74	46.72	0.01
2000	123	5	163.67	10.51	192.52	20.69	108.31	0	5.47	3.12	1.25	0.32	0.3	0.02	51.31	47.26	0.01
2000	123	6	182.5	15.2	158.69	18.35	119.03	7.26	4	3.27	1.58	0.69	0.62	0.07	52.26	48.42	0
2000	123	7	271.05	19.77	278.68	40.04	215.81	33.71	12.38	8.65	3.09	1.01	0.27	0.74	54.93	49.85	0
2000	123	8	295.65	10.34	307.21	14.23	309.7	33.59	20.44	17.15	6.3	-2.14	-1.24	-0.89	59.91	49.55	0

2000	123	9	340.23	11.73	352.03	14.53	354.57	21.64	21.39	19.04	9.21	-2.68	-1.22	-1.46	59.04	47.24	0
2000	123	10	344.74	7.66	355.74	10.7	354.34	22.4	22.85	21.21	9.95	-3.25	-1.28	-1.96	57.65	45	0
2000	123	11	342.14	8.15	353.03	12.92	347.72	23.27	21.16	19.68	8.8	-3.04	-1.26	-1.79	57.58	42.94	0
2000	123	12	351.4	9.31	2.83	14.01	1.29	19.5	19.1	17.2	9.49	-3.7	-1.47	-2.23	59.41	43.02	0
2000	123	13	358.53	11.23	11.87	13.27	6.15	17.62	13.06	11.41	7.69	-3.18	-1.47	-1.7	59.4	42.1	0
2000	123	14	347.83	20.04	1.77	18.69	0.64	25.02	9.73	8.63	6.16	-2.98	-1.36	-1.62	61.46	40.08	0
2000	123	15	12.52	15.95	27.46	16.93	28.58	18.94	9.06	8.13	6.11	-2.75	-1.32	-1.43	63.21	36.94	0
2000	123	16	354.98	11.92	3.92	14.96	5.51	19.28	11.57	10.09	6.23	-2.92	-1.38	-1.53	65.25	33.52	0
2000	123	17	2.58	9.69	13.9	11.65	8.64	17.18	12.9	10.78	6.86	-2.47	-1.3	-1.17	65.26	31.05	0
2000	123	18	355.26	7.35	5.97	9.87	2.61	13.55	11.58	10.04	5.27	-1.47	-1.05	-0.41	64.2	30.18	0
2000	123	19	321.03	8.04	330.68	9.71	325.11	30.9	11.03	9.88	2.45	0.45	-0.96	1.41	61.7	31.63	0
2000	123	20	326.53	11.24	338.94	10.37	349.17	16.09	10.26	9.21	3.95	0.15	-0.86	1	60.61	32.16	0
2000	123	21	323.48	6.82	343.9	8.96	5.88	19.08	13.88	11.55	4.68	1.55	-0.28	1.83	57.54	33.04	0
2000	123	22	330.37	6.6	4.7	11.98	40.02	14.84	11.74	8.25	3.78	2.12	0.31	1.81	54.87	32.62	0
2000	123	23	327.72	4.73	4.76	13.53	41.13	17.39	11.4	7.36	3.43	3.79	1.19	2.6	52.04	33.71	0
2000	124	0	344.62	3.77	6.42	8.6	21.53	12.11	8.54	5.08	3.15	3.61	1.15	2.46	50.74	33.89	0
2000	124	1	357.43	8.31	12.05	7.93	17.19	19.25	9.53	6.6	3.35	4.44	0.99	3.45	48.77	34.31	0
2000	124	2	2.24	7.06	7.49	4.89	27.8	8.69	9.72	8.04	3.67	4.57	-0.38	4.95	47.31	34.76	0
2000	124	3	4.09	6.31	11.66	4.65	38.34	8.17	10.46	8.58	4	3.99	-0.65	4.63	47.08	33.96	0
2000	124	4	10.34	6.4	17.07	5.39	37.3	13.16	8.15	6.47	3.16	4.57	0.75	3.82	46.26	32.95	0
2000	124	5	25.91	9.28	13.86	9.53	30.97	11.23	6.06	5.29	3.73	5.81	1.64	4.17	44.41	33.97	0
2000	124	6	30.09	12.13	6.46	9.5	17.5	9.46	4.08	3.92	3.12	3.03	0.59	2.44	46.77	34.31	0
2000	124	7	18.84	42.96	350.26	16.09	349.39	20.33	2.81	2.84	2.45	-1.39	-0.81	-0.59	51.91	32.14	0
2000	124	8	242.29	46.5	260.2	25.48	263.41	38.81	4.16	4.69	4.05	-2.33	-0.99	-1.34	55.31	28.75	0
2000	124	9	185.96	13.3	204.37	16.4	198.47	24.5	8.26	8.23	6.61	-2.98	-1.32	-1.66	58.72	26.76	0
2000	124	10	164.23	11.1	180.01	12.54	179.34	18.52	8.74	8.85	7.13	-3.18	-1.45	-1.73	61.06	25.41	0
2000	124	11	158.15	12.11	171.46	15.34	174.11	21	8.48	8.36	6.93	-3.33	-1.63	-1.7	62.64	25.61	0
2000	124	12	141.97	13.52	155.65	17.07	158.93	24.84	8.78	8.44	6.03	-3.67	-1.54	-2.13	64.04	28.18	0
2000	124	13	137.05	9.38	147.73	13.11	147.65	23.87	10.68	11	6.62	-4	-1.56	-2.44	65.24	30.24	0
2000	124	14	139.4	6.88	152.79	10.68	159.06	19.48	12.29	11.88	7.76	-3.75	-1.49	-2.27	65.42	31.02	0
2000	124	15	142.98	8.12	157.36	11.08	159.1	18.51	13.06	11.31	7.22	-3.77	-1.55	-2.23	65.66	31.46	0
2000	124	16	145.32	3.76	158.94	7.96	162.57	17.46	15.36	12.12	8	-3.2	-1.35	-1.85	64.47	32.93	0
2000	124	17	149.02	3.47	162.08	7.89	161.04	15.82	14.99	11.86	6.85	-2.49	-1.07	-1.43	63.31	35.85	0
2000	124	18	157.29	4.24	168.46	8.02	165.87	15.38	12.99	12.42	6.87	-1.67	-0.92	-0.74	60.36	39.89	0
2000	124	19	153.52	3.59	165.09	7.34	164.35	14.58	13.02	11.43	6.05	-1.28	-0.76	-0.53	57.32	43.37	0
2000	124	20	154.46	3.41	166.28	7.45	166.52	14.91	11.48	10.88	6.28	-1.44	-0.89	-0.56	55.53	43.58	0
2000	124	21	148.19	3	159.92	7.02	161.9	14.09	11.39	8.27	3.94	-1.33	-0.88	-0.45	53.74	47.05	0
2000	124	22	148.7	2.56	159.86	6.68	163.39	11.54	9.92	6.97	3.56	-1.17	-0.83	-0.34	52.84	47.37	0
2000	124	23	150.97	2.55	162.58	6.03	166.21	10.91	9.16	7.02	3.54	-1.08	-0.88	-0.2	52.16	46.9	0
2000	125	0	156.49	3.33	169.07	5.98	171.34	10.83	7.58	7.67	4.14	-1.14	-0.91	-0.24	51.7	46.64	0
2000	125	1	156.68	3.86	174.4	5.95	183.73	6.68	6.55	6.93	3.5	-0.63	-0.8	0.17	50.69	46.44	0
2000	125	2	163.75	4.98	192.07	9.61	189.64	3.59	6.36	5.48	2.24	-0.61	-0.63	0.03	50.35	45.91	0
2000	125	3	161.87	4.19	186.25	7.98	196.48	7.19	6.93	5.01	1.59	0.43	-0.15	0.58	49.09	45.15	0
2000	125	4	166.69	3.86	196.07	5.61	220.81	3.37	9.12	5.91	1.83	0.37	-0.09	0.46	48.74	44.76	0
2000	125	5	170.1	5.14	197.73	9.1	212.8	10.77	8.5	5.97	2.51	-0.23	-0.44	0.21	49.22	44.99	0
2000	125	6	168.6	5.59	191.2	9.78	204.73	13.83	8.07	5.82	3.38	-1.38	-0.76	-0.61	50.85	45.09	0
2000	125	7	160.73	7.35	176.76	10.69	177.81	14.64	7.49	7.52	6.12	-2.51	-1.2	-1.32	53.62	44.85	0
2000	125	8	157.27	8.99	163.77	10.5	162.98	17.91	8.47	7.92	5.99	-3.05	-1.25	-1.8	57.5	45.24	0
2000	125	9	153.81	9.24	162.65	10.9	163.81	18.64	10.36	9.81	6.92	-3.3	-1.31	-2	61.44	42.84	0

2000	125	10	146.28	7.93	155.64	10.77	156.38	22.02	12.92	11.48	7.19	-3.86	-1.44	-2.42	64.68	39.95	0
2000	125	11	146.16	6.94	155.51	10.5	160.62	18.86	15.16	12.54	8.11	-4.18	-1.67	-2.51	67.32	39.46	0
2000	125	12	144.3	5.98	155.92	10.23	159.03	19.32	19.79	15.88	9.26	-4.21	-1.69	-2.52	67.22	43.66	0
2000	125	13	144.08	5.25	156.42	8.61	157.02	18.69	22.6	17.78	9.64	-3.75	-1.6	-2.15	66.61	44.63	0
2000	125	14	143.92	4.33	156.98	9.18	156.99	19.4	22.64	17.15	9.52	-3.68	-1.52	-2.16	66.78	43.79	0
2000	125	15	143.78	4.83	156.6	9.19	156.57	19.26	20.24	15.38	8.13	-2.98	-1.27	-1.71	65.78	42.74	0
2000	125	16	148.78	4.65	162.04	8.61	162.7	16.34	17.79	13.84	8.18	-2.42	-1.09	-1.32	63.8	43.35	0
2000	125	17	148.2	4.39	160.31	8.42	161.58	16.56	15.93	11.97	6.99	-2.15	-1.02	-1.14	62.11	45.57	0
2000	125	18	149.89	3.22	162.61	7.91	160.67	17.17	15.57	12.2	6.43	-1.71	-0.81	-0.9	60.71	46.13	0
2000	125	19	149.54	2.77	161.67	7.69	161.08	15.5	14.31	11.07	6.12	-1.49	-0.73	-0.76	59.43	46.6	0
2000	125	20	145.38	3.35	154.81	7.58	158.45	15.08	12.09	9.07	4.2	-1.26	-0.64	-0.62	58.61	47.27	0
2000	125	21	147.71	4.82	154.2	7.77	161.08	15.13	8.53	6.42	2.85	-1.15	-0.65	-0.5	58.6	47.49	0
2000	125	22	161.08	4.22	168.63	6.98	179.45	8.32	7.92	6	3.29	-0.52	-0.44	-0.08	57.86	48.14	0
2000	125	23	169.62	7.85	175.61	3.81	178.9	5.33	6.07	6.63	2.63	0.31	-0.4	0.7	56.63	48.86	0
2000	126	0	160.6	5.4	165.72	7.59	178.71	0.04	3.92	3.77	1.26	0.65	0.02	0.63	56.93	49.19	0
2000	126	1	162.78	4.16	176.51	15.64	189.03	3.46	6.21	3.6	1.45	1.7	1.15	0.55	56.5	49.53	0
2000	126	2	170.98	4.4	212.31	27.51	199.88	6.32	5.2	2.97	1.26	0.75	0.77	-0.02	57.63	49.37	0
2000	126	3	180.45	5.07	180.6	4.8	174.02	1.79	6.27	5.47	1.28	1.41	0.42	0.99	57.38	49.23	0
2000	126	4	162.91	3.62	171.21	11.69	179.89	0	5.29	3.23	1.13	1.59	1.16	0.43	57.25	49.74	0
2000	126	5	162.52	3.2	180.32	17.88	119.59	36.84	5.24	2.44	1.56	1.58	0.41	1.17	56.9	49.72	0
2000	126	6	181.93	18.68	171.99	13.98	6.04	30.66	3.1	2.42	1.27	0.13	-0.05	0.18	58.41	50.58	0
2000	126	7	147.32	14.41	165.67	20.52	207.2	34.39	3.21	3.09	2.43	-1.92	-1.12	-0.8	60.91	50.23	0
2000	126	8	162.13	17.28	186.21	20.37	198.1	22.6	5.21	5.32	4.75	-1.65	-0.58	-1.07	63.94	50.65	0
2000	126	9	180.15	17.64	178.27	13.46	181.19	14.75	6.58	6.04	5.43	-1.41	-0.11	-1.3	67.58	44.17	0
2000	126	10	255.06	41.06	220.14	31.34	208.77	34.74	6.18	5.48	4.51	-2.13	-0.82	-1.3	75.33	53.96	0
2000	126	11	258.8	27.64	256.7	34.24	244.05	54.08	9.11	7.83	4.89	-3.01	-1.36	-1.65	80.61	55.81	0
2000	126	12	281.06	15.16	291	20.52	284.6	39.76	17.77	15.29	6.7	-2.97	-1.25	-1.72	83.74	54.28	0
2000	126	13	290.59	12.44	303.3	14.76	306.11	34.57	21.03	18.79	7.29	-2.51	-1.25	-1.26	83.85	53.61	0
2000	126	14	285.52	11.24	298.91	12.5	299.81	33.86	22.16	20	7.73	-2.39	-1.27	-1.12	82.99	53.19	0
2000	126	15	281.8	12.18	293.19	13.99	288.78	32.08	21.34	19.38	7.93	-2.7	-1.29	-1.41	82.87	53.98	0
2000	126	16	279.77	11.65	290	14.66	286.93	33.24	18.05	16.31	6.73	-2.51	-1.24	-1.27	82.46	54.35	0
2000	126	17	282.06	11.7	293.95	13.84	289.21	29.99	15.9	14.03	5.71	-1.9	-1.16	-0.75	81.27	54.24	0
2000	126	18	293.4	18.37	303.92	20.61	302.51	32.67	17.7	14.87	5.72	-1.19	-1.05	-0.14	79.95	54.28	0
2000	126	19	337.26	16.13	342.61	31.85	351.94	34.25	16.35	13.96	6.48	0.94	-0.05	1	72.01	56.67	0.06
2000	126	20	36.01	39.78	160.86	32.91	182.02	21.69	3.05	2.46	2.16	3.89	0.32	3.57	65.78	58.53	0
2000	126	21	307.75	60.02	92.58	22.24	39.13	17.39	2.61	3.88	1.55	5.88	3.14	2.73	65.17	58.84	0
2000	126	22	147.14	42.94	161.08	12.48	185.76	6.17	2.81	4.28	1.64	6.71	3.7	3.01	63.73	58.65	0
2000	126	23	216.54	15.42	240.19	22.33	94.91	40.04	5.28	3.9	1.8	8.48	5.23	3.25	63.64	58.16	0
2000	127	0	242.64	9.56	204.32	16.01	188.14	33.91	5.88	4.04	1.44	7.92	5.4	2.52	63.01	58.2	0
2000	127	1	232.6	15.63	179.6	41.26	261.71	0.38	3.3	1.97	1.09	5.69	3.39	2.3	62.75	58.14	0
2000	127	2	223.08	41.3	295.51	37.8	322.88	23.41	2.85	1.28	1.28	5.39	2.35	3.04	62.09	57.68	0
2000	127	3	264.55	5.67	4.81	42.44	18.78	2.89	7.61	1.42	1.37	9.23	5.81	3.41	61.49	57.36	0
2000	127	4	287.28	7.95	302.55	31.97	48.34	49.53	11.26	3.99	1.76	11.32	5.12	6.2	60.38	56.54	0
2000	127	5	296.76	42.94	32.37	68.34	75.73	39.17	8.46	3.61	1.71	7.48	1.84	5.64	61.07	56.68	0
2000	127	6	74.16	52.65	99.84	38.06	318.04	79.96	4.13	4.32	2.07	4.14	0.4	3.74	63.55	56.83	0
2000	127	7	56.4	66.9	150.15	35.28	151.16	27.2	3.45	3.41	1.97	-0.35	-0.92	0.57	70.56	56.87	0
2000	127	8	319.78	55.28	344.08	60.7	348.42	47.29	3.18	2.82	1.91	-2.19	-1.04	-1.14	75.09	56.36	0
2000	127	9	291.97	62.73	280.3	53.96	237.78	42.48	3.25	2.96	2.85	-2.44	-1.32	-1.12	77.87	54.71	0
2000	127	10	304.02	56	305.41	57.15	270.27	67.85	3.21	3.32	2.84	-2.93	-1.33	-1.59	80.79	53.15	0

2000	127	11	298.27	34.47	310.92	38.53	312.09	65.21	7.98	7.47	4.2	-3.13	-1.36	-1.77	83.08	52.67	0
2000	127	12	263.71	38.82	263.18	49.86	213.16	61.43	7.31	6.2	4.77	-2.71	-1.27	-1.45	84.54	50.18	0
2000	127	13	217.97	32.51	203.97	28.97	191.91	23.68	7.65	7.15	5.4	-2.34	-0.98	-1.35	85.51	47	0
2000	127	14	139.42	13.95	143.27	15.77	147.41	26.69	7.18	7.28	4.3	-2.7	-1.09	-1.61	85.1	46.21	0
2000	127	15	252.73	28.51	263.27	33.76	254.47	55.07	11.71	9.52	4.46	-2.07	-1	-1.08	87.25	41.37	0
2000	127	16	278.67	14.44	292.61	19.02	285.24	40	15.2	13.26	5.11	-2.53	-1.22	-1.31	88.74	38.01	0
2000	127	17	271.59	9.2	283.17	11.73	279.48	25.77	15.75	13.82	5.59	-1.69	-1.1	-0.59	87.89	39.63	0
2000	127	18	274.41	10.66	281.87	11.19	267.04	18.38	10.54	8.88	3.45	-0.92	-1.05	0.13	86.61	41.02	0
2000	127	19	270.26	7.55	268.86	6.33	230.99	7.89	9.13	7.73	2.56	2.26	-0.79	3.05	82.55	42.7	0
2000	127	20	291.71	6.82	298.89	7.9	238.76	29.01	13.95	11.28	2.14	5.92	-0.46	6.38	78.11	45	0
2000	127	21	288.84	5.83	284.71	11.29	168.72	35.83	12.42	9.61	2.2	7.78	0.53	7.25	74.94	43.95	0
2000	127	22	291.83	8.6	232.98	34.46	156.4	23.2	8.46	4.51	1.84	9.05	2.61	6.44	71.3	49.54	0
2000	127	23	297.34	30.31	193.31	26.43	129.16	29.34	3.02	1.93	1.58	9.26	4.5	4.76	68.83	50.77	0
2000	128	0	220.52	23	206.6	29.7	123.53	31.51	2.86	3.37	1.46	8.61	5.45	3.16	67.23	50.07	0
2000	128	1	179.37	8.22	178.41	8.52	171.14	12.15	5.04	4.05	1.48	4.72	3.2	1.51	65.6	53.13	0
2000	128	2	160.58	7.2	177.15	13.85	213.03	6.66	5.49	3.64	1.87	2.61	2.64	-0.03	64.92	49.67	0
2000	128	3	140.82	5.21	171.18	9.45	236.4	5.97	4.9	3.57	1.75	2.46	2.1	0.36	62.85	49.78	0
2000	128	4	195.41	25.34	190.19	10.18	229.78	2.05	1.92	2.62	1.07	2.44	1.84	0.6	62.45	52.21	0
2000	128	5	239.84	38.54	266.39	17.68	223.79	0.51	1.38	1.64	1.02	2.81	2	0.81	61.71	53.88	0
2000	128	6	165.03	43.73	247.48	22.79	214.52	14.93	1.08	1.47	1.03	2.13	2.44	-0.31	63.42	53.62	0
2000	128	7	133.23	21.37	177.69	33.57	207.54	24.31	3.03	1.97	2.07	0.93	1.84	-0.91	66.85	51.16	0
2000	128	8	25.22	58.8	133.52	19.56	204.46	25.25	2.9	3.44	3.07	2.52	2.89	-0.37	71.59	52.08	0
2000	128	9	279.98	26.4	187.46	57.05	170.65	15.21	5.73	2.44	3.67	1.74	1.1	0.64	77.71	32.96	0
2000	128	10	281.72	19.52	276.14	34.73	251.37	40.86	12.28	9.97	5.04	-2.37	-0.91	-1.47	85.42	54.79	0
2000	128	11	264.8	23.17	276.87	25.07	269.7	39.03	13.72	12.16	5.64	-3.4	-1.42	-1.98	88.48	56.47	0
2000	128	12	239.69	19.07	246.17	23.51	232.35	39.49	13.2	10.95	5.32	-3.26	-1.32	-1.94	89.74	52.82	0
2000	128	13	220.25	14.94	227.9	15.48	209.24	28.75	13.22	11.57	6.56	-3.03	-1.31	-1.72	90.84	44.4	0
2000	128	14	235.98	14.13	245.57	15.19	231.44	30.6	16.37	14.22	6.43	-2.55	-1.13	-1.42	91.35	43.18	0
2000	128	15	240.47	9.55	251.27	13.28	245.28	32.56	19.62	17.2	7.3	-1.98	-1.02	-0.96	91.66	42.36	0
2000	128	16	257.1	12.03	269.77	14.02	271.89	35.38	21.34	18.38	7.26	-1.84	-1.09	-0.76	91.77	39.78	0
2000	128	17	285.65	10.29	299.88	12.78	296.99	37.69	16.98	15.21	5.6	-1.35	-1.04	-0.31	89.8	49.77	0
2000	128	18	247.73	22.39	258.44	26.64	226.05	40.57	13.36	11.81	4.93	5.63	2.71	2.92	79.03	56.11	0.03
2000	128	19	251.83	9.93	255.65	23.65	162.18	17.76	9.61	4.91	1.98	6.12	2.45	3.67	77.28	58.32	0
2000	128	20	273.67	10.97	278.83	17.1	268.49	40.44	33.39	27.41	9.48	1.47	0.12	1.35	74.26	52.31	0
2000	128	21	318.43	26.85	7.91	27.43	107.67	39.22	15.36	13.38	4.81	1.47	0.44	1.03	68.93	56.66	0.01
2000	128	22	199.58	9.37	214.46	11.62	182.62	12.48	7.1	5.94	2.77	1.92	0.5	1.42	67.24	57.01	0
2000	128	23	209.41	9.35	193.51	11.18	158.34	15.83	6.14	4.47	1.6	3.35	1.96	1.38	66.47	57.36	0
2000	129	0	156.81	10.36	280.2	39.77	334.2	19.64	3.67	1.98	1.73	0.64	-0.09	0.73	65.65	57.47	0
2000	129	1	76.04	36.11	6.25	38.49	15.78	8.97	1.65	3.14	2.68	0.96	-0.17	1.13	65.48	57.65	0
2000	129	2	10.13	29.81	32.85	7.36	36.31	13.16	4.15	6.2	3.99	2.2	1.58	0.62	64.93	57.26	0
2000	129	3	42.78	25.93	6.96	18.44	21.41	24.41	5.72	4.85	2.71	1.63	1.5	0.13	64.06	56.37	0
2000	129	4	190.09	20.94	279.85	24.66	213.1	7.57	3.49	2.65	1.43	2.51	0.44	2.07	63.35	55.8	0
2000	129	5	216.85	11.62	258.19	36.95	161.99	37.57	3.3	1.88	1.52	3.39	1.63	1.76	63.64	55.9	0
2000	129	6	260.72	26.2	78.28	29.48	156.4	27.8	2	2.13	1.61	2.45	2.47	-0.02	65.08	42.75	0
2000	129	7	112.96	32.98	136.34	39.67	344.97	29.78	1.79	1.85	1.74	0.36	1	-0.64	68.55	31.08	0
2000	129	8	129.57	10.75	187.38	34.75	267.69	18.47	3.7	2.3	2.58	-0.15	0.24	-0.39	72.2	-4.44	0
2000	129	9	136.94	6.55	172.18	18.17	199.13	24.16	4.26	3.54	3.53	-0.17	0.58	-0.75	76.56	-15.19	0
2000	129	10	129.14	13.75	187.3	20.12	209.04	24.79	3.52	3.56	3.91	-1.03	-0.15	-0.88	80.35	40.66	0
2000	129	11	125.17	24.49	175.1	21.44	192.56	17.88	3.53	4.6	4.63	-2.1	-0.95	-1.15	84.33	-5.13	0

2000	129	12	145.83	8.3	163.21	11.58	172.42	15.61	6.03	5.95	5.1	-2.41	-1.08	-1.33	86.18	38.94	0
2000	129	13	137.35	6.19	151.31	11.75	160.77	20.45	7.72	7	4.03	-2.32	-1.22	-1.1	87.09	37.44	0
2000	129	14	186.8	37.69	185.14	56.11	266.85	63.74	6.09	6.2	3.97	1.79	0.48	1.3	78.8	43.48	0.17
2000	129	15	159.03	11.79	166.73	17.64	163.72	22.58	5.53	5.27	3.42	-0.42	0.3	-0.72	79.36	2.59	0
2000	129	16	155.01	12.93	194.59	13.21	196.91	14.91	7.44	6.84	4.68	-0.13	0.48	-0.62	78.73	-17.06	0
2000	129	17	151.39	4.39	189.15	14.11	235.34	17.36	7.93	5.66	3.15	0.39	0.47	-0.08	78.53	-17.08	0
2000	129	18	171.07	6.58	173.06	6.67	194.99	13.9	6.45	5.67	2.06	2.14	0.29	1.85	77.93	31.79	0
2000	129	19	174.83	36.8	151.86	17.57	142.08	0	2.05	2.14	1.37	2.57	0.51	2.07	76.83	45.27	0
2000	129	20	128.64	17.83	41.04	42.59	76.8	30.22	3.09	2.4	1.98	3.39	-0.24	3.63	73.98	48.68	0
2000	129	21	172.46	43.27	46.37	35.74	35.37	63.31	2.59	3.27	2.15	5.07	0.66	4.41	71.72	14.77	0
2000	129	22	173.61	23.98	332.04	43.49	339.34	32.99	1.95	2.69	1.71	6.26	2.25	4.01	69.53	24.78	0
2000	129	23	187.46	11.46	265.58	41.8	21.54	37.69	4.6	1.34	1.37	6.45	3.03	3.42	68.26	45.13	0
2000	130	0	185.38	11.78	231.52	41.94	54.25	24.78	5.93	1.5	1.49	7.36	4.73	2.64	67.98	46.63	0
2000	130	1	173.73	5.95	193.89	28.8	230.59	23.62	8.45	3.83	1.5	7.48	5.39	2.09	67.21	47.45	0
2000	130	2	189.58	5.41	159.25	7.23	300.94	15.33	6.98	3.56	1.25	6.18	3.12	3.07	67.38	44.89	0
2000	130	3	194.54	7.65	158.02	7.37	6.72	2.8	5.95	3.51	1.41	5.82	1.52	4.3	66.66	40.13	0
2000	130	4	187.37	8.03	176.75	15.57	0.28	7.17	5.91	3.45	1.38	5.59	1.89	3.69	66.2	39.32	0
2000	130	5	181.95	9.43	174.46	13.11	357.09	8.09	5.12	3.08	1.32	5.3	1.98	3.33	65.94	37.88	0
2000	130	6	166.75	10.66	172.1	9.98	264.21	14.12	5.69	4.54	1.75	3.76	3	0.76	68.12	0.5	0
2000	130	7	158.88	5.9	162.18	9.77	184.67	16.82	5.59	5.28	3.8	-0.32	0.72	-1.04	72.33	25.07	0
2000	130	8	179.73	20.38	172.3	24.66	181.47	25.84	6.35	5.04	3.69	-1.49	-0.3	-1.19	76.8	-11.96	0
2000	130	9	249.37	15.09	257.48	21.16	253.18	40.58	17.49	14.36	6.11	-1.74	-0.81	-0.94	84.04	-17.23	0
2000	130	10	239.07	13.03	248.56	17.37	242.01	33.75	13.83	12.11	5.39	-3.02	-1.23	-1.79	86.98	-17.24	0
2000	130	11	217.76	11.9	227.3	15.35	214.78	30.38	14.32	12.62	6.69	-3.53	-1.39	-2.13	89.31	-17.23	0
2000	130	12	213.64	12.73	223.37	16.98	208.52	29.65	17.36	15.25	8.22	-3.12	-1.3	-1.82	90.26	-17.25	0
2000	130	13	220.33	9.29	230.07	13.26	207.98	25.73	19.93	17.5	8.29	-3.19	-1.29	-1.9	91.51	-17.27	0
2000	130	14	213.32	10.41	223.55	13.68	207.68	28.46	16.47	14.5	7.85	-2.95	-1.23	-1.71	91.96	-17.24	0
2000	130	15	210.55	12.28	221.55	15.39	204.05	26.82	14.33	12.65	6.52	-2.75	-1.28	-1.47	92.4	-17.22	0
2000	130	16	211.29	12.25	220.24	14.45	200.31	21.33	15.16	12.25	7.05	-2.25	-1.13	-1.12	91.78	-17.2	0
2000	130	17	206.99	7.61	214.87	9.56	193.52	18.55	17.88	15.13	8.21	-1.69	-0.98	-0.71	90.22	-17.18	0
2000	130	18	204.6	5.08	211.01	8.14	187.19	13.82	17.09	13.77	7.52	-1.01	-0.85	-0.16	88.12	-17.2	0
2000	130	19	215.62	6.8	215.52	8.51	174.93	8.96	10.89	8.85	3.48	0.25	-0.81	1.07	85.19	-17.23	0
2000	130	20	234.85	11.75	239.81	20.77	198.03	51.97	9.12	6.39	2.21	1.53	-0.76	2.29	82.24	-17.2	0
2000	130	21	317.78	13.09	331.67	16.74	340.57	31.35	24.59	22.27	9.18	-0.8	-0.69	-0.11	78.71	-17.44	0
2000	130	22	1.8	29.13	44.89	26.65	61.51	41.08	6.94	6.65	3.95	0.14	-0.26	0.4	72.12	31.36	0
2000	130	23	228.04	16.68	233.78	8.88	223.78	21.76	6.34	6.15	2.32	1.67	0.27	1.4	70.94	49.91	0
2000	131	0	232.32	18.43	269.28	17.56	160.22	44.72	7.87	5.89	1.97	3.54	0.97	2.57	69.68	51.21	0
2000	131	1	61.26	35.21	88.93	34.36	135.06	53.28	5.47	5.07	2.75	1.3	0.03	1.27	70.7	57.02	0
2000	131	2	185.38	43.33	199.09	26.78	192.24	25.25	2.49	3.06	1.99	0.81	-0.43	1.23	68.65	56.76	0
2000	131	3	44.9	33.72	23.59	55.54	27.01	27.58	3.18	3.38	2.82	2.57	-0.01	2.58	66.87	57.84	0
2000	131	4	94.62	7.76	98.93	10.26	65.94	21.57	11.65	9.68	3.33	-0.06	-0.75	0.69	66.21	58.38	0
2000	131	5	115.33	8.7	127.99	11.83	127.13	37.26	14.18	12.3	4.5	-2.06	-1.1	-0.96	62.36	54.14	0
2000	131	6	107.81	10.09	123.18	13.77	128.79	38.63	15.17	12.97	5.08	-2.44	-1.24	-1.2	58.65	51.32	0
2000	131	7	125.83	9.02	139.03	12.31	151.28	29.51	14.01	12.15	5.25	-2.45	-1.23	-1.22	57.16	49.94	0
2000	131	8	110.57	10.6	123.63	13.84	130.23	36.57	15.19	13.24	5.33	-2.47	-1.21	-1.26	55.66	48.58	0
2000	131	9	107.11	14.49	117.22	19.03	104.99	48.58	10.81	9.2	3.82	-2.57	-1.25	-1.32	54.66	48.19	0
2000	131	10	111.34	14.92	126.63	17.98	132.18	41.88	13.42	10.93	4.74	-2.48	-1.22	-1.26	54.93	47.7	0
2000	131	11	102.2	12.56	117.68	14.36	119.98	36.42	11.35	9.93	4.24	-2.42	-1.22	-1.2	55.55	47.79	0
2000	131	12	106.91	12.79	120.84	16.99	115.37	40.51	11.7	10.3	3.86	-2.38	-1.23	-1.15	55.66	47.4	0

2000	131	13	114.39	12.02	128.36	14.86	133.56	39.25	13.2	10.75	4.27	-2.42	-1.25	-1.17	55.82	47.6	0
2000	131	14	100.78	11.63	114.54	15.2	111.84	41.65	16.82	14.05	5.72	-2.43	-1.24	-1.19	53.54	46.88	0
2000	131	15	114.75	13.2	128.67	15.54	138.34	42.63	14.8	12.15	5.06	-2.31	-1.23	-1.09	52.96	46.49	0
2000	131	16	96.49	10.36	110.68	13.17	107.47	41.35	12.9	10.29	3.83	-2.09	-1.09	-1	51.65	46.48	0
2000	131	17	89.9	41.31	77.14	46.97	123.72	43.64	10.08	8.08	3.46	-2	-1.01	-0.99	50.92	46.93	0
2000	131	18	33.6	30.44	52.35	40.54	71.92	36.84	11.67	9.37	4.46	-1.19	-0.5	-0.69	51.33	47.52	0.04
2000	131	19	25.69	52.03	8.48	37.32	351.52	47.24	6.09	5	3.39	-1.83	-1.01	-0.82	51.86	47.8	0.06
2000	131	20	87.53	40.04	136.91	46.9	192.47	41.23	3.66	2.86	2.1	-1.49	-0.98	-0.51	51.66	48.18	0.12
2000	131	21	322.9	44.97	323.13	47.62	297.99	64.85	6.4	5.63	3.6	-1.72	-1.05	-0.67	52.22	48.2	0.01
2000	131	22	303.38	48.23	292.92	44.88	105.17	27.05	2.5	2.27	1.47	-1.48	-0.97	-0.51	52.56	48.01	0
2000	131	23	258.96	22.06	214.01	40.76	148.07	21.06	3.84	3.31	2.21	-1.34	-0.93	-0.41	52.86	48.86	0
2000	132	0	252.04	16.24	240.07	20.87	230.48	8.89	3.7	2.98	1.56	-1.44	-0.95	-0.49	53.17	48.89	0
2000	132	1	254.99	27.91	239.36	26.94	214.67	3.39	4.02	3.27	1.76	-0.81	-0.85	0.04	53.23	49.09	0
2000	132	2	268.01	30.37	252.55	38.82	197.72	45.93	5.97	4.62	2.48	-0.29	-0.61	0.32	53.62	48.89	0
2000	132	3	300.87	34.93	319.23	44.41	327.45	58.02	9.04	7.68	4.08	-1.45	-1.04	-0.4	56.1	47.68	0
2000	132	4	303.43	16.62	317.46	21.5	328.54	66.35	17.04	14.23	4.85	-1.64	-1.09	-0.55	56.34	47.75	0
2000	132	5	296.89	8.57	308.74	11.74	304.71	61.14	28.02	23.88	6.92	-1.73	-1.11	-0.62	56.9	47.3	0
2000	132	6	295.83	11.43	307	14.84	295.74	52.62	25.18	21.2	6.72	-1.73	-1.09	-0.64	57.52	46.49	0
2000	132	7	280.33	14.15	290.45	17.13	282.34	53.22	15.23	13.38	5.28	-2.66	-1.32	-1.34	59.53	46.58	0
2000	132	8	289.11	15.45	304.25	18.75	289.78	56.23	19.51	16.81	6.29	-2.28	-1.27	-1.01	59.66	46.56	0
2000	132	9	291.39	10.54	304.54	14.14	297.72	55.64	24.45	21.88	7.36	-2.84	-1.39	-1.44	61.65	46.15	0
2000	132	10	304.83	12.88	317.55	15.97	319.36	53.69	23.32	21.22	7.36	-2.83	-1.31	-1.52	63.18	44.15	0
2000	132	11	307.76	12.04	323.6	14.98	330.01	47.68	21.09	19.03	7.51	-3.51	-1.36	-2.14	65.39	44.19	0
2000	132	12	310.2	16.81	323.81	18.26	327.27	48.75	18.93	17.56	6.4	-3.73	-1.37	-2.36	67.23	43.93	0
2000	132	13	317.19	13.26	330.79	16.22	337.63	40.99	16.83	15.5	6.64	-3.56	-1.36	-2.2	68.48	43.91	0
2000	132	14	315.86	21.39	329.72	22.72	340.22	41.4	14.87	13.24	6.52	-3.41	-1.36	-2.05	70.11	43.2	0
2000	132	15	297.13	15.4	308.02	17.71	301.35	51.44	16.49	14.55	5.38	-3.67	-1.53	-2.14	71.83	42.12	0
2000	132	16	290.09	11.99	302.64	15	292.73	48.64	16.81	14.98	5.49	-3.24	-1.41	-1.83	72.36	40.82	0
2000	132	17	296.55	11.55	309.85	14.29	302.83	54.44	18.2	15.99	5.62	-2.62	-1.31	-1.31	72.47	40.68	0
2000	132	18	293.36	7.02	305.59	11.34	311.63	53.32	16.11	13.09	4.02	-1.64	-1.25	-0.39	71.01	40.63	0
2000	132	19	300.8	7.82	313.87	10.75	320.54	61.78	16.1	13.1	3.58	-1.16	-1.05	-0.12	69.29	38.73	0
2000	132	20	307.13	14.1	321.19	16.87	299.4	62.7	14.78	12.63	4	-0.98	-0.95	-0.03	68.68	36.98	0
2000	132	21	305.9	42.01	316.4	54.57	342.39	64.59	6.66	5.76	3.78	-0.55	-0.82	0.27	67.02	37.59	0
2000	132	22	17.24	22.28	23.58	42.72	327.19	52.49	4.97	3.95	2.54	3.51	0.45	3.05	61.7	43.43	0
2000	132	23	284.18	15.59	306.12	24.39	355.26	17.73	5.04	4.12	2.72	4.88	1.52	3.36	59.66	42.99	0
2000	133	0	127.36	33.47	64.7	32.3	14.5	29.05	2.7	2.52	2.44	3.63	0.93	2.7	59.02	44.63	0
2000	133	1	64.85	11.9	20.53	10.08	17.09	13.1	6.13	6.4	4.89	2.38	0.97	1.41	58.73	44.87	0
2000	133	2	17.18	7.18	27.44	8.11	28.45	14.34	9.19	9.17	5.35	1.36	1.03	0.33	58.47	44.94	0
2000	133	3	23.7	13.58	22.19	10.72	18.33	16.2	6.65	6.56	3.99	0.96	0.24	0.73	56.43	47.06	0
2000	133	4	21.25	9.97	22.81	8.06	29.1	14.05	8.76	8.02	5.22	0.46	0.13	0.33	55.36	48.84	0
2000	133	5	19.97	10.39	22.84	8.14	27.58	13.58	9.11	7.72	4.58	-0.14	-0.03	-0.11	54.45	49.51	0
2000	133	6	7.3	11.66	26.37	17.49	26.48	16.21	4.44	3.97	2.51	-1.15	-0.59	-0.56	54.84	49.53	0
2000	133	7	39.19	14.81	31.49	13.38	24.48	14.87	7.45	6.12	3.94	-1.19	-0.63	-0.55	54.25	49.38	0.05
2000	133	8	37.52	17.06	29.7	14.71	15.57	18.36	8.1	7.06	4.36	-1.59	-0.84	-0.75	53.77	48.92	0.01
2000	133	9	94.66	29.72	97.85	45.9	43.65	47.49	4.25	3.16	2.5	-2	-1.02	-0.98	54.59	48.1	0
2000	133	10	166.98	39.27	182.37	42.07	185.94	45.68	3.09	2.71	2.13	-2.16	-1.1	-1.06	55.21	48.65	0
2000	133	11	106.14	37.27	101	44.14	83.03	37.33	3.97	3.24	2.69	-2.12	-1	-1.12	55.54	50.07	0.02
2000	133	12	106.94	30.32	102.46	43.48	92.86	49.02	4.53	4.28	3.3	-2.57	-1.2	-1.38	58.28	51.05	0
2000	133	13	151.21	21.34	157.39	24.79	165.34	33.41	5.69	5.32	3.74	-3.05	-1.27	-1.78	62.86	48.51	0

2000	133	14	61.93	37.42	26.37	44.05	7.97	36.96	4.43	4.35	3.85	-2.17	-0.98	-1.19	63.66	49.32	0
2000	133	15	199.82	52.81	218.6	45.26	233.21	50.87	3.46	3.56	2.64	-2.13	-1.01	-1.12	64.81	49.52	0
2000	133	16	93.17	14.66	101.2	16.21	80.1	31.26	8.02	7.24	3.42	-2.04	-1.14	-0.9	64.43	49.98	0
2000	133	17	98.38	19.07	106.5	22.61	95.99	50	7.84	7.12	2.42	-0.15	-0.52	0.36	60.46	51.43	0.04
2000	133	18	130.42	34.26	190.8	30.74	161.33	35.58	5.04	3.62	2.27	-0.64	-0.39	-0.25	59.09	52.92	0
2000	133	19	30.58	9.06	27.94	10.51	17.92	13.41	8.21	6.84	4.47	-0.53	-0.48	-0.05	58.48	52.83	0
2000	133	20	34.6	7.54	25.59	7.13	19.12	12.39	8.51	6.73	3.83	-0.63	-0.53	-0.09	57.99	52.19	0
2000	133	21	39.54	16.41	21.27	19.01	17.68	35.58	8.23	6.65	4.1	0.13	-0.19	0.32	57.36	51.84	0
2000	133	22	44.8	14.66	11.92	17.87	1.56	18.58	5.28	4.26	2.03	-0.5	-0.78	0.27	57.33	50.75	0
2000	133	23	15.53	15.19	8.47	13.69	5.81	12.08	4.35	4.06	2.67	0.04	-0.73	0.77	56.89	51.27	0
2000	134	0	13.35	10.69	15.11	7.9	35.83	11.38	4.89	4.44	3.21	0.94	-0.45	1.39	56.24	50.45	0
2000	134	1	50.27	13.25	29.68	13.96	38.21	15.81	4.26	3.63	2.46	0.68	-0.26	0.94	56.07	50.07	0
2000	134	2	96.94	18.47	80.25	19.31	27.18	14.85	3.63	3.02	1.61	-0.69	-1.01	0.33	56.24	50.34	0
2000	134	3	89.11	41.41	320.9	51.28	288.31	43.12	1.65	2.17	1.77	-1	-0.69	-0.3	56.1	51.03	0
2000	134	4	43.21	16.98	59.98	14	43.5	23.61	3.47	4.23	2.65	-1.1	-0.6	-0.5	55.88	50.47	0
2000	134	5	17.3	7.39	28.08	10.31	22.99	14.43	12.53	9.4	5.81	-1.67	-0.88	-0.79	56.34	49.58	0
2000	134	6	17.12	16.75	17.71	19.17	1.29	29.12	6.43	5.06	3.14	-1.88	-0.96	-0.92	56.91	49.76	0
2000	134	7	199.33	36.35	228.79	31.38	212.79	23.44	2.92	3.19	2.35	-2.09	-1.07	-1.02	57.82	49.88	0
2000	134	8	183.9	20.67	190.53	21.33	190.05	31.69	4.34	4.05	3.04	-2.26	-1.15	-1.11	58.86	51.59	0
2000	134	9	171.88	12.24	181.97	13.04	183.66	14.41	6.42	5.33	4.36	-2.22	-1.1	-1.12	59.69	52.29	0
2000	134	10	164.15	20.12	188.36	16.49	197.03	24.52	4.47	4.55	4.07	-2.32	-1.12	-1.2	61.86	52.33	0
2000	134	11	174.52	13.53	190.88	13.59	194.89	21.01	5.41	5.41	4.7	-2.4	-1.13	-1.27	63.7	53.62	0
2000	134	12	164.97	11.54	185.73	12.89	187.78	17.27	8.26	9.09	7.4	-2.87	-1.24	-1.63	65.49	53.03	0
2000	134	13	169.17	12.92	184.22	17.89	181.44	20.12	7.69	6.78	5.21	-2.81	-1.31	-1.5	67.42	49.96	0
2000	134	14	136.32	8.89	148.28	11.74	157.02	31.7	7.13	7.32	4.37	-2.98	-1.26	-1.72	68.63	51.47	0
2000	134	15	154.43	8.7	171.16	11.91	178.29	18.06	8.2	7.84	5.8	-2.75	-1.16	-1.59	69.52	51.05	0
2000	134	16	150.78	6.16	164.39	10.15	170.2	19.01	9.12	8.34	5.07	-2.86	-1.2	-1.66	70.35	57.65	0
2000	134	17	154.92	4.38	169.11	8.43	174.25	16.5	11.95	11.7	6.96	-1.99	-0.76	-1.23	67.98	57.36	0
2000	134	18	154.86	2.55	170.77	6.82	177.19	14.55	9.37	10.72	6.23	-1.35	-0.46	-0.88	64.08	56.59	0
2000	134	19	144.39	8.03	172.75	7.54	186.15	13.59	6.41	7.38	5.12	-0.93	-0.27	-0.67	61.26	55.79	0
2000	134	20	150.09	46.52	167.21	59.53	134.15	66.29	8.57	7.84	4.85	-0.83	-0.42	-0.41	60.86	55.56	0.53
2000	134	21	313.1	42.97	71.65	46.58	59.18	21.67	5.5	4.83	3.43	-0.19	-0.17	-0.02	60.71	56.99	0.19
2000	134	22	301.65	45.98	331.21	20.42	34.44	54.93	13.05	10.44	3.61	0.51	-0.17	0.68	60.89	54.22	0.11
2000	134	23	308.32	22.54	308.17	49.56	76.23	57.21	11.41	7.74	3.03	0.54	0.25	0.29	59.27	52.54	0
2000	135	0	318.3	19.26	345.94	25.79	7.41	65.37	11.66	9.47	3.46	0.13	-0.39	0.52	59.24	49.86	0
2000	135	1	343.92	17.27	6.58	28.45	29.82	52.24	8.79	6.34	3.02	1.32	0.23	1.09	57.91	48.67	0
2000	135	2	312.65	15.22	337.48	19.91	1.14	41.19	18.63	14.55	4.99	0.34	-0.27	0.61	59.83	47.77	0
2000	135	3	309.11	9.07	321.66	9.56	353.31	55.17	21.11	17.85	5.11	-0.91	-0.76	-0.15	60.38	48.14	0
2000	135	4	301.4	11.01	307.36	14.12	293.23	63.53	12.65	10.56	3.22	-1.14	-1.09	-0.05	59.11	47.88	0
2000	135	5	342.21	41.37	3.17	38.4	21.15	50.43	8.09	7.12	4.01	-1.04	-0.88	-0.16	58.22	46.49	0
2000	135	6	308.65	17.76	319.06	19.55	314.48	53.09	14.22	12.33	5.03	-2.19	-1.21	-0.98	59.08	42.43	0
2000	135	7	319.2	13.3	329.08	16.56	344.43	42.7	12.76	11.94	4.59	-2.72	-1.3	-1.42	59.18	39.31	0
2000	135	8	289.22	17.04	299.78	19.57	289.81	47.88	11.82	11.1	4.84	-3.48	-1.51	-1.96	59.9	40.79	0
2000	135	9	284.35	17.33	298.31	19.08	293.63	42.19	11.26	10.64	5.15	-3.63	-1.46	-2.17	60.42	39.13	0
2000	135	10	296.94	16.09	312.22	18.89	311.37	45.36	11.03	10.22	4.83	-3.85	-1.54	-2.31	61.74	39.69	0
2000	135	11	274.78	27.47	284.03	32.44	263.47	46.2	9.42	8.26	4.8	-3.71	-1.58	-2.12	64.15	40.67	0
2000	135	12	273.12	16.07	285.01	19.48	273.2	42.58	13.7	12.14	5.72	-3.79	-1.43	-2.36	65.93	40.36	0
2000	135	13	273.63	16.49	288.23	19.93	277.49	48.73	16.21	14.61	5.63	-3.86	-1.48	-2.38	68.45	39.49	0
2000	135	14	282.58	20.39	294.07	23.16	295.37	53.56	17.85	15.37	5.67	-3.71	-1.47	-2.24	69.7	38.86	0

2000	135	15	280.31	13.9	293.82	17.3	286.82	52.67	18.95	17.5	6.69	-3.47	-1.45	-2.02	70.28	37.4	0
2000	135	16	291.59	13.01	306.31	15.36	305.42	50.49	16.9	15.21	5.29	-3.13	-1.35	-1.78	70.49	37.73	0
2000	135	17	305.38	13.67	318.7	15.9	329.23	41.86	14.26	13.12	5.28	-2.54	-1.3	-1.24	69.73	36.64	0
2000	135	18	324.97	9.01	338.53	10.38	351.56	28.66	14.91	14.18	5.31	-1.69	-1.11	-0.58	67.94	36.55	0
2000	135	19	332.41	5.72	343.42	7.17	355.9	25.34	13.73	12.09	4.02	-0.84	-0.96	0.12	66.26	36.6	0
2000	135	20	339.21	3.82	348.09	9.26	5.37	21.16	13.5	12.15	3.89	-0.02	-0.61	0.59	64.32	37.91	0
2000	135	21	348.81	8.63	8.69	11.5	27.11	16.83	12.48	9.55	4.58	0.32	-0.01	0.33	60.8	40.38	0
2000	135	22	353.04	11.82	5.31	14.58	13.9	20.18	17.71	15.34	8.41	-1.88	-1.11	-0.77	59.24	39.91	0
2000	135	23	330.35	12.31	343.83	16.07	351.11	29.27	15.21	13.66	6.14	-1.98	-1.17	-0.81	57.63	38.85	0
2000	136	0	327.2	17.69	338.35	16.87	344.47	41.6	14.47	12.55	5.56	-1.94	-1.14	-0.79	56.91	35.38	0
2000	136	1	354.38	15.84	6.32	16.3	8.57	23.37	10.55	8.87	5.4	-1.83	-1.11	-0.72	55.42	34.73	0
2000	136	2	338.11	16.35	356.11	18.24	2.44	21.16	10.95	9.44	5.24	-1.72	-1.07	-0.65	54.25	32.45	0
2000	136	3	306.47	20.1	314.45	23.5	329.51	64.55	8.74	6.78	2.68	-1.16	-1.07	-0.09	52.94	30.94	0
2000	136	4	243.79	46.75	210.94	51.49	163.75	16.77	4.2	4.07	2.33	0.25	-0.36	0.61	50.09	32.12	0
2000	136	5	273.65	16.2	286.57	22.04	286.78	23.22	4.05	3.51	1.86	0.73	0.38	0.35	49.02	35.89	0
2000	136	6	281.48	30.05	321.03	47.85	38.34	28.13	5.24	3.04	1.91	-1.2	-0.57	-0.63	50.93	37.02	0
2000	136	7	269.86	21.15	278.6	26.35	262.67	48.55	6.01	5.19	2.78	-3.05	-1.35	-1.7	55.22	33.02	0
2000	136	8	299	19.22	312.71	23.55	317.57	57.14	10.39	9.24	4.08	-3.42	-1.45	-1.97	56.85	32.14	0
2000	136	9	285.5	18.06	296.75	23.99	284.52	50.82	10.86	9.8	4.44	-3.53	-1.52	-2.01	58.09	31.47	0
2000	136	10	294.69	15.81	310.4	19.27	312.66	47.82	13.01	11.95	4.79	-3.49	-1.44	-2.05	58.89	31.69	0
2000	136	11	292.28	18.04	308.3	21.48	313.06	58.77	12.13	11.2	4.71	-3.69	-1.54	-2.15	59.62	32.95	0
2000	136	12	271.46	19.56	280.81	22.1	266.92	37.22	13.39	11.7	5.37	-3.34	-1.54	-1.8	60.36	31.17	0
2000	136	13	282.81	16.74	296.7	19.65	286.59	48.82	16.29	13.83	5.5	-3.89	-1.6	-2.29	61.62	30.84	0
2000	136	14	299.74	16.51	314.07	19.83	308.11	54.37	14.91	13.45	5.47	-3.34	-1.4	-1.94	61.6	30.38	0
2000	136	15	285.97	17.93	300.08	21.93	290.39	48.73	14.43	12.91	5.35	-2.94	-1.36	-1.57	61.7	29.51	0
2000	136	16	297.7	16.85	312.52	19.05	318.27	47.6	15.24	13.64	5.44	-2.86	-1.32	-1.54	62.5	27.57	0
2000	136	17	289.83	15.22	301.83	18.56	290.76	47.86	13.33	12.4	4.52	-2.75	-1.4	-1.36	62.91	27.45	0
2000	136	18	284.49	11.25	295.93	12.98	272.98	26.11	9.54	7.63	2.57	-1.4	-1.23	-0.17	61.3	28.37	0
2000	136	19	290.6	5.18	292.18	7.84	270.62	19.28	9.52	6.86	1.62	1.78	-0.38	2.16	57.5	30.52	0
2000	136	20	301.59	5.69	325.36	20.67	343.5	34.97	9.3	5.72	1.51	3.5	0.9	2.59	54.8	34.61	0
2000	136	21	340.92	8.65	4.92	12.27	25.43	8.46	11.39	9	5.6	3.68	1.57	2.11	52.84	35.99	0
2000	136	22	349.71	6.19	17.55	6.24	39.09	13.21	10.88	8.28	4.94	2.93	1.06	1.87	51.49	35.38	0
2000	136	23	10.97	10.45	32.94	10.53	111.64	42.71	5.07	4.02	1.93	2.35	0.61	1.74	49.33	34.61	0
2000	137	0	348.25	6.61	1.63	6.04	13.47	10.01	3.57	4.88	3.31	4.31	2.41	1.9	47.74	37.13	0
2000	137	1	193.07	31.5	15.67	5.86	26.15	9.36	2.42	4.86	2.47	4.61	3.73	0.89	45.93	37.72	0
2000	137	2	184.65	9.62	8.45	7.34	26.57	6.45	2.79	3.74	2.7	2.63	1.11	1.52	44.58	38	0
2000	137	3	150.97	24.21	19.21	5.72	30	8.5	1.76	4.8	2.99	3.32	1.48	1.84	43.43	37.23	0
2000	137	4	132.17	13.99	13.07	4.24	25.83	8.15	1.48	4.69	3.06	3.49	2.13	1.36	42.68	37.13	0
2000	137	5	171.15	25.68	15.96	7.24	24.38	7.59	1.67	3.92	2.92	3.21	2.51	0.69	42.89	37.46	0
2000	137	6	83.66	43.05	43.77	23.18	9.77	16.9	1.37	2.5	2.59	0.99	1.76	-0.77	45.48	37.76	0
2000	137	7	102.64	32.6	61.58	50.33	349.27	27.17	2.29	2.34	2.24	-1.65	-0.51	-1.14	49.96	38.4	0
2000	137	8	89.15	38.89	109.57	47.06	148.5	61.88	3.14	3.03	2.56	-2.39	-1.17	-1.21	56.06	37.08	0
2000	137	9	288.39	56.02	302.15	47.77	315.83	56.65	7.02	6.67	4.1	-2.71	-1.17	-1.54	59.38	34.22	0
2000	137	10	267.48	20.83	279.42	27.38	271.33	46.93	8.92	8.08	4.24	-3.5	-1.43	-2.07	61.82	31.21	0
2000	137	11	254.85	30.56	259.55	26.58	238.42	44.78	7.6	6.99	4.65	-3.58	-1.6	-1.98	63.57	30.46	0
2000	137	12	258.3	24.51	271.05	30.79	249.87	48.85	8.78	8.22	4.49	-3.47	-1.42	-2.05	64.94	29.3	0
2000	137	13	284.16	17.75	295.11	21.73	265.98	52.53	11.15	9.92	4.95	-3.88	-1.64	-2.24	66.23	30.07	0
2000	137	14	227.32	29.26	238.98	37.2	212.56	46.34	6.49	5.68	3.76	-3.24	-1.35	-1.89	67.12	27.27	0
2000	137	15	254.32	15.91	269.2	20.07	257.45	46.83	12.01	10.6	5.25	-3.52	-1.47	-2.05	68.59	23.43	0

2000	137	16	269.11	21.13	279.57	27.28	245.8	50.57	9.2	7.83	3.91	-3.14	-1.41	-1.73	68.76	23.3	0
2000	137	17	189.49	17.06	194.13	17.6	193.02	26.91	8.81	7.91	4.56	-2.35	-1.08	-1.27	67.51	28.19	0
2000	137	18	144.83	5.01	152.44	8.14	157.7	25.75	16.03	13.01	5.56	-1.39	-0.72	-0.67	62.56	38.64	0
2000	137	19	149.14	5.3	157.6	7.43	168.84	17.97	11.47	8.91	4.11	-0.78	-0.67	-0.11	60.4	38.73	0
2000	137	20	158.8	6.77	165.03	7.02	174.23	12.2	8.31	7.12	3.5	-0.37	-0.68	0.32	59.09	39.04	0
2000	137	21	177.36	5.38	178.87	5.48	182.87	10.45	8.26	6.91	2.47	-0.19	-0.78	0.59	58.18	39.57	0
2000	137	22	167.06	5.46	181.53	9.19	183.84	0.53	6.66	5.72	1.41	0.71	-0.28	0.99	56.49	41.63	0
2000	137	23	171.42	8.09	200.74	9.89	231.17	10.23	7.02	4.47	1.61	0.69	0.1	0.59	55.8	43.24	0
2000	138	0	159.91	6.6	233.92	50.46	331.22	16.36	5.18	2.63	1.91	0.64	-0.02	0.66	55.1	44.82	0
2000	138	1	19.56	13.54	29.72	6.92	34.44	13.59	7.57	8.09	4.92	0.49	0.14	0.35	54.64	42.4	0
2000	138	2	126.07	50.99	29.96	42.91	101.2	41.36	2.63	2.32	2.01	0.66	0.05	0.61	54.75	42.48	0
2000	138	3	243.56	18.16	294.75	29.08	90.87	32.92	2.99	3.06	2.44	0.55	-0.11	0.65	54.39	44.32	0
2000	138	4	4.39	10.29	19.57	4.59	26.85	8.15	5.53	6.89	4.87	2.42	1.02	1.4	53.19	42.8	0
2000	138	5	4.51	6.42	23.56	5.54	32.79	12.61	5.33	7.53	5.25	3.41	2.86	0.54	51.94	42.63	0
2000	138	6	356.9	7.73	22.49	6.87	30.37	12.11	7.84	8.18	5.99	2.97	2.57	0.4	52.83	42.43	0
2000	138	7	5.15	10.45	22.12	13.35	31.68	13.4	6.97	5.95	5.06	-1.26	-0.51	-0.76	57.15	40.46	0
2000	138	8	46.1	44.86	2.85	53.87	340.65	31.99	3.39	3.41	3.21	-2.19	-1.05	-1.13	60.45	39.87	0
2000	138	9	177.89	24.84	200.73	22.4	204.23	27.88	4.23	4.93	4.28	-2.54	-1.17	-1.37	63.56	40.29	0
2000	138	10	154.56	13.46	169.58	15.28	174.14	24.09	6.03	6.38	5.45	-2.97	-1.29	-1.68	65.57	41.25	0
2000	138	11	149.71	9.67	164.03	12.1	167.03	24.67	8.8	9.23	6.49	-3.53	-1.37	-2.16	67.34	43.88	0
2000	138	12	144.23	10.24	157.67	12.79	165.45	26.23	10.39	9.96	6.19	-3.54	-1.38	-2.16	68.11	44.91	0
2000	138	13	143.03	8.67	155.3	10.78	165.1	24.69	11.91	11.15	6.65	-3.24	-1.34	-1.91	68.57	44.74	0
2000	138	14	143.26	4.69	155.22	9.6	163.78	23.66	15.21	11.98	6.45	-3.1	-1.34	-1.76	68.2	44.52	0
2000	138	15	147.65	5.57	161.87	9.67	168.97	20.39	14.45	11.94	7.24	-2.84	-1.38	-1.46	67.76	45.73	0
2000	138	16	146.43	4.17	158.66	8.51	165.67	22.09	15.88	12.41	6.85	-2.76	-1.26	-1.5	67.13	46.35	0
2000	138	17	148.63	4.82	160.28	8.75	166.5	21.55	15.44	12.09	6.72	-2.53	-1.19	-1.34	65.99	47.25	0
2000	138	18	149.25	3.88	161.5	8.27	167.99	19.4	15.89	12.24	6.42	-1.82	-1	-0.82	63.43	48.23	0
2000	138	19	149.72	4.76	162.62	8.57	166.91	19.88	14.13	11.07	5.77	-1.46	-0.92	-0.54	61.4	49.51	0
2000	138	20	144.37	5.28	156.45	8.9	166.83	19.3	9.98	7.51	3.36	-1.37	-1.02	-0.36	59.64	50.37	0
2000	138	21	141.58	3.58	151.61	7.91	154.98	18.07	10.06	7.63	2.61	-1.22	-0.95	-0.27	58.05	51.4	0
2000	138	22	144.34	4.81	151.63	7.41	151.91	15.16	7.79	5.84	1.59	-0.66	-0.82	0.16	56.91	51.46	0
2000	138	23	153.36	5.04	155.96	6.62	103.31	6.27	6.6	4.74	1.69	-0.12	-0.56	0.43	56.29	51.15	0
2000	139	0	161.43	8.34	189.11	14.2	105.39	10.63	4.63	3.02	1.42	-0.61	-0.66	0.05	56.58	51.9	0
2000	139	1	156.85	7.18	179.08	11	121.99	5.18	4.53	2.95	1.48	-1.12	-0.81	-0.31	56.74	52.29	0
2000	139	2	153.74	9.43	177.63	14.56	169.34	18.8	6.2	4.26	1.92	-1.29	-0.69	-0.6	57.13	52.62	0
2000	139	3	162.75	7.48	179.87	11.6	191.32	13.63	8.34	7.02	3.84	-1.67	-0.98	-0.69	58.69	53.38	0
2000	139	4	156.99	7.99	173.27	12.26	182.21	14.58	7.62	6.67	3.57	-1.75	-0.99	-0.76	59.21	53.54	0
2000	139	5	159.89	4.83	173.37	7.57	177.69	14.23	10.2	10.96	6.6	-1.94	-1.09	-0.85	59.96	52.92	0
2000	139	6	163.24	7.31	174.38	10.02	177.47	14.6	11	9.89	6	-2.07	-1.14	-0.94	60.26	54.24	0
2000	139	7	162.69	5.74	172.23	9.36	176.6	14.44	10.72	9.06	5.13	-1.89	-1.06	-0.84	60.68	55.13	0.01
2000	139	8	164.64	4.78	171.87	7.21	170.28	13.89	9.9	8.31	4.05	-1.48	-0.82	-0.67	60.7	55.64	0.01
2000	139	9	165.91	4.96	174.4	7.26	175.61	14.26	15.84	13.29	6.86	-1.56	-0.87	-0.69	61.89	57.31	0
2000	139	10	172.06	6.01	180.35	8.35	177.79	15.12	18.9	15.16	8.29	-1.49	-0.89	-0.59	63.6	56.56	0
2000	139	11	171.72	4.97	178.95	7.51	177.34	14.18	18.88	14.5	7.43	-1.52	-0.79	-0.72	65.72	57.21	0
2000	139	12	176.81	7.97	185.59	12.64	182.04	13.13	12.89	9.77	5.46	-1.49	-0.71	-0.78	69.08	57.79	0
2000	139	13	186.02	9.22	194.72	11.98	185.28	17.98	19	15.62	9.28	-2.62	-1.24	-1.38	75.47	56.34	0
2000	139	14	184.01	6.95	193.56	10.18	185.16	14.89	28.25	23.39	14.4	-2.51	-1.21	-1.3	78.58	54.93	0
2000	139	15	189.76	6.62	199.74	9.41	187.36	14.98	28.81	23.43	13.97	-1.89	-1.02	-0.87	79.91	-12.04	0
2000	139	16	198.14	7.84	208.29	10.82	191.47	16.82	30.19	24.83	14.51	-1.71	-1.04	-0.67	80.4	-17.19	0

2000	139	17	283.51	24.59	298.85	26.27	294.96	50.86	32.72	27.77	9.29	-1.12	-0.86	-0.26	65.89	45.65	0.24
2000	139	18	161.97	22.16	169	30.56	175.35	44.34	7.49	6.92	2.7	-0.31	-0.65	0.35	63.52	57.08	0
2000	139	19	157.66	9.55	172.9	17.87	189.01	28.06	7.01	4.88	2.25	-0.97	-0.66	-0.31	63.07	57.89	0
2000	139	20	164.26	6.51	166.8	8.9	173.64	20.05	8.61	6.97	3.45	-0.8	-0.58	-0.22	62.36	58.18	0
2000	139	21	172.03	48.81	263.39	49.04	251.55	64.34	2.43	2.32	1.51	-1.29	-0.91	-0.38	62.61	58.45	0
2000	139	22	179.14	11.56	177.95	11.84	166.62	19.4	4.42	3.99	1.72	-0.78	-0.82	0.04	62.12	57.47	0
2000	139	23	191.86	5.69	220.99	9.78	208.98	19.34	7.36	5.89	2.47	-0.65	-0.54	-0.11	62.01	57.79	0
2000	140	0	206.92	8.01	207.62	7.85	173.78	14.88	9.03	7.7	3.07	-0.55	-0.75	0.2	62.47	57.8	0
2000	140	1	145.9	58.24	140.97	36.4	95.41	26.5	2.09	2.78	1.65	-0.49	-0.56	0.07	62.46	57.51	0
2000	140	2	41.92	18.27	26.42	32.59	13	19.04	6.03	6.23	3.99	-0.91	-0.65	-0.27	62.19	57.37	0
2000	140	3	356.15	10.87	3.54	12.44	12.39	15.81	16.46	14.49	7.79	-1.82	-1.08	-0.74	60.98	55.45	0.01
2000	140	4	358.14	12.52	9.04	13.91	12.4	24.36	14.48	12.56	7	-1.73	-1.08	-0.66	58.56	52.77	0.08
2000	140	5	1.89	10.28	11.15	12.68	15.69	13.95	11.97	10.07	5.99	-1.97	-1.14	-0.83	58.16	52.01	0
2000	140	6	356.72	10.78	1.52	14.14	16.22	20.16	15.31	12.21	6.81	-2.21	-1.13	-1.08	56.99	51.19	0
2000	140	7	355.19	11.43	1.23	12.06	11.21	16.83	16.15	14.49	7.55	-2.16	-1.07	-1.09	53.43	48.53	0.03
2000	140	8	0.29	12.1	7.58	12.13	13.76	16.46	13.26	11.22	6.68	-2.01	-1.06	-0.95	51.87	47.7	0.11
2000	140	9	22.03	17.79	28.7	17.57	20.37	20.67	11.36	8.89	5.45	-1.72	-0.97	-0.75	52.06	47.61	0.04
2000	140	10	28.91	12.26	37.41	13.27	29.79	18.06	15.22	12.82	7.91	-1.96	-1.08	-0.88	52.23	47.22	0.02
2000	140	11	22.94	12.59	34.82	11.8	27.12	14.76	12.4	10.49	6.62	-2.04	-1.11	-0.93	50.9	45.44	0
2000	140	12	23.64	12.8	35.44	12.39	31.43	15.7	10.91	9.46	6.2	-2.1	-1.14	-0.96	50.52	45.04	0
2000	140	13	35.93	9.95	46.86	12.23	35.25	15.7	14.82	12.85	8.19	-2.21	-1.16	-1.05	49.8	43.44	0
2000	140	14	23.25	8.19	33.97	10.27	25.09	14.17	13.52	11.34	7.74	-2.11	-1.1	-1.01	48.81	43.9	0
2000	140	15	28.02	8.35	40.49	11.34	32.15	14.65	15.16	12.8	8.74	-2.17	-1.15	-1.02	47.89	43.18	0
2000	140	16	28.02	8.21	40.68	10.37	30.13	14.99	14.96	12.96	8.47	-2.23	-1.17	-1.05	46.21	40.52	0
2000	140	17	16.99	8.38	27.32	11.92	25.16	14.71	13.67	11.51	7.66	-2.21	-1.18	-1.03	45.94	40.32	0
2000	140	18	21.22	13.22	31.62	14.82	30.61	16.72	9.46	8.02	5.53	-2.13	-1.16	-0.97	46.45	40.08	0
2000	140	19	20.59	12.23	35.79	11.93	32.93	15.83	8.64	7.61	4.98	-2.08	-1.13	-0.95	46.52	39.66	0
2000	140	20	14.54	10.34	31.02	12.73	36.68	15.68	8.92	7.75	5.17	-2.02	-1.12	-0.91	46.35	39.66	0
2000	140	21	13.26	12.51	31.39	16.44	33.77	19.67	7.83	6.68	4.35	-2.03	-1.11	-0.92	46.33	39.59	0
2000	140	22	30.55	10.04	48.04	10.22	41.33	18.35	7.22	6.39	3.96	-2.05	-1.11	-0.93	46.2	39.46	0
2000	140	23	31.95	12.16	48.08	12.94	41.5	15.69	7.94	7.14	4.79	-2.06	-1.13	-0.93	46.05	39.5	0
2000	141	0	24.89	13.19	43.68	12.31	40.64	18.52	7.6	6.97	4.49	-2.03	-1.1	-0.93	46.01	39.64	0
2000	141	1	24.92	9.74	42.2	10.51	40.13	17.28	7.33	6.79	4.36	-2.03	-1.1	-0.92	45.99	39.05	0
2000	141	2	21.94	10.18	34.88	12.8	33.8	15.36	9.14	8.14	5.6	-2.1	-1.15	-0.96	45.84	38.77	0
2000	141	3	40.4	12.26	48.56	13.04	36.41	16.69	7.77	6.9	4.44	-2.14	-1.15	-0.99	45.58	37.76	0
2000	141	4	41.09	10.58	46.3	12.33	33.72	17.14	7.5	6.24	4.05	-2.13	-1.17	-0.96	45.18	37.68	0
2000	141	5	45.43	10.49	53.69	12.25	41.59	18.37	5.69	5.07	3.32	-2.13	-1.16	-0.97	45.11	37.3	0
2000	141	6	56.92	19.37	60.6	22.09	51.27	40.77	6.65	5.64	3.87	-2.23	-1.18	-1.05	45.4	37.21	0
2000	141	7	48.5	21.86	52.82	25.45	41	24.32	4.07	3.6	2.5	-2.25	-1.19	-1.06	45.97	37.81	0
2000	141	8	47.71	18.63	67.49	25.88	59.91	31.54	4.17	3.78	2.46	-2.24	-1.18	-1.06	46.53	38.15	0
2000	141	9	33.97	12.05	47.81	14.26	41.36	20.88	5.69	5.06	3.48	-2.18	-1.15	-1.02	46.97	39.43	0.01
2000	141	10	2.92	35.99	11.95	27.62	27.24	18.54	2.75	2.55	1.95	-1.96	-1.07	-0.89	46.79	41.3	0.01
2000	141	11	29.13	34.5	54.75	43.89	12.67	10.35	2.39	1.89	1.36	-1.88	-0.99	-0.89	46.8	42.12	0.06
2000	141	12	37.17	12.15	48	15.48	39.41	16.18	5.12	4.5	3.31	-1.98	-0.99	-0.99	46.94	42.77	0.11
2000	141	13	145.53	20.09	169.91	21.3	164.38	21.46	5.2	4.43	3.26	-2.15	-1.1	-1.04	47.65	43.47	0.01
2000	141	14	107.99	15.66	122.29	24.04	97.23	12.57	4.56	3.25	1.61	-2.06	-1.11	-0.95	48.39	43.56	0
2000	141	15	88.85	10.28	92.83	17.75	73.81	21.42	4.18	3.17	1.82	-2.12	-1.11	-1.01	48.97	44.07	0
2000	141	16	92.54	11.62	100.08	14.58	75.57	26.79	5.25	4.42	2.5	-2.26	-1.16	-1.11	49.74	44.83	0
2000	141	17	79.51	12.19	79.33	13.99	62.34	21.74	4.88	4.59	2.68	-2.09	-1.13	-0.96	49.64	44.48	0

2000	141	18	62.48	5.99	69	5.54	51.37	12.98	4.68	4.53	2.67	-1.92	-1.09	-0.84	49.62	44.42	0
2000	141	19	82.91	3.77	79.59	5.64	51.55	14.61	6.71	5.54	2.48	-1.44	-0.91	-0.53	49.6	44.72	0
2000	141	20	93.16	4.64	88.13	4.44	53.62	14.13	6.48	5.63	2.29	-1.2	-0.89	-0.31	49.78	44.87	0
2000	141	21	114.43	6.78	114.02	8.23	80.35	9.5	6.05	4.62	1.55	-1.33	-1	-0.34	49.89	44.71	0
2000	141	22	125.26	6.11	142.27	8.5	107.12	12.5	6.03	3.51	1.28	-1.45	-0.79	-0.66	49.41	45.77	0
2000	141	23	126.99	4.86	129.57	8.58	159.44	5.25	5.58	3.33	1.24	-1.28	-0.61	-0.67	49.41	46.25	0
2000	142	0	120.9	4.18	118.28	5.2	94.19	16.85	7.99	5.57	1.54	-1.23	-0.61	-0.62	49.57	46.46	0
2000	142	1	117.12	7.14	119.23	7.23	125.18	12.15	7.6	5.81	1.52	-1.47	-0.75	-0.71	49.64	46.55	0
2000	142	2	123.43	5.48	128.76	7.68	125.94	3.8	6.73	4.66	1.32	-1.36	-0.67	-0.69	49.62	46.51	0
2000	142	3	125.36	3.67	124.17	7.32	108.26	13.53	8.56	5.97	1.84	-1.32	-0.67	-0.65	49.66	46.5	0
2000	142	4	117.71	4.32	123.35	6.93	119.35	8.73	9.14	6.45	1.72	-1.37	-0.79	-0.58	49.78	46.49	0
2000	142	5	111.19	4.73	111.73	7.23	89.11	21.5	8.93	6.97	2.1	-1.34	-0.65	-0.68	49.68	46.31	0
2000	142	6	101.59	5.9	110.16	8.35	88.41	13.4	7.77	6.39	2.08	-1.32	-0.65	-0.67	50.07	46.42	0
2000	142	7	114.67	7.34	124.93	9.8	98.58	13.01	7.13	5.46	1.9	-1.78	-0.91	-0.86	50.6	46.76	0
2000	142	8	122.69	7.99	134.11	12.29	134.73	27.11	6.39	5.36	2.18	-2.04	-1.08	-0.96	51.42	46.91	0
2000	142	9	141.88	14.58	153.97	18.5	150.88	40.54	3.72	3.51	2.33	-2.21	-1.16	-1.04	52.49	47.08	0
2000	142	10	158.19	13.7	173.15	19.18	178.02	21.5	3.87	3.91	3.02	-2.29	-1.22	-1.07	53.35	47.16	0
2000	142	11	168.95	13.63	179.35	14.22	182.45	17.4	4.79	5.06	4.05	-2.31	-1.16	-1.15	54.03	47.3	0
2000	142	12	191.59	14.21	207.01	16.63	194.11	18.84	5.19	5.06	4.32	-2.46	-1.23	-1.23	54.96	47.52	0
2000	142	13	161.61	9.18	176.87	11.63	180.66	17.69	5.08	5.27	3.89	-2.38	-1.16	-1.22	55.08	47.71	0
2000	142	14	152.37	8.36	165.39	11.77	172.96	17.64	4.27	4.4	3.1	-2.4	-1.18	-1.22	55.43	48.33	0
2000	142	15	150.2	6.14	161.5	9.64	164.31	19.76	4.94	4.55	2.9	-2.28	-1.15	-1.12	55.5	48.42	0
2000	142	16	153.84	7.77	164.85	9.66	169	19.6	5.77	5.88	3.16	-1.95	-1.09	-0.86	55.16	48.88	0
2000	142	17	149.95	5.05	158.85	9.38	159.37	21	7.48	6.64	3.18	-1.75	-0.95	-0.8	54.07	49.48	0
2000	142	18	146.31	5.96	152.34	11.62	161.37	21.14	5.58	4.3	1.95	-1.46	-0.78	-0.68	53.78	49.03	0
2000	142	19	164.58	18.33	146.09	15.76	122.97	9.76	4.05	3.36	1.41	-1.49	-0.9	-0.6	53.6	49.06	0
2000	142	20	133.8	4.66	127.84	9.89	111.84	20.38	5.75	5.41	1.77	-1.51	-0.77	-0.73	52.98	49	0
2000	142	21	133.64	7.4	133.37	10.71	122.64	23.53	6.17	4.81	1.9	-1.63	-0.87	-0.76	52.89	48.97	0
2000	142	22	165.09	12	171.76	13.3	168.39	9.17	5.86	4.72	2.46	-1.4	-0.74	-0.66	52.92	49.48	0
2000	142	23	177.32	6.54	187.99	7.81	183.94	10.23	9.15	7.83	4.36	-1.5	-0.82	-0.68	53.09	49.78	0
2000	143	0	176.76	5.59	188.45	6.79	187.51	10.37	8.76	7.66	4.19	-1.59	-1	-0.58	53.37	49.77	0
2000	143	1	180.04	13.66	176.04	16.71	145.66	16.82	4.17	3.31	1.6	-1.48	-0.94	-0.54	53.54	49.71	0
2000	143	2	178.85	15.03	179.57	15.76	140.74	20.64	5.5	5.35	2.75	-1.43	-0.93	-0.5	53.41	49.84	0
2000	143	3	173.47	9.29	182.6	12.4	176.38	14.05	5.32	4.55	2.32	-1.51	-0.95	-0.55	53.5	49.51	0
2000	143	4	183.53	11.58	201.69	13.67	191.81	16.86	6.92	6.34	3.62	-1.57	-0.96	-0.61	53.58	49.52	0
2000	143	5	197.9	10.12	217.38	9.77	204.46	14.61	6.13	5.61	2.91	-1.81	-1.05	-0.77	53.87	49.54	0
2000	143	6	133.48	14.39	141.23	19.13	126.06	44.9	5.11	4.47	2.33	-2.17	-1.16	-1.02	54.32	49.88	0
2000	143	7	152.73	16.63	152.63	23.31	145.73	32.71	3.55	3.47	2.46	-2.16	-1.1	-1.06	55.14	49.79	0
2000	143	8	122.32	12.67	136.99	15.8	139.87	27.67	5.15	4.91	3.08	-2.44	-1.15	-1.29	56.06	49.81	0
2000	143	9	122.16	16.34	137.4	22.36	144.41	36.89	6.1	5.73	3.23	-2.41	-1.21	-1.2	56.21	49.75	0
2000	143	10	142.77	8.97	155.01	12.08	163.59	29.19	7.34	6.75	3.92	-2.51	-1.2	-1.31	56.04	49.2	0
2000	143	11	120.92	12.37	131.68	15.76	129.85	33.49	5.74	5.16	2.65	-2.4	-1.22	-1.18	56.09	48.88	0
2000	143	12	111	21.42	126.3	22.58	123.43	51.17	6.78	5.91	3.06	-2.39	-1.19	-1.2	57.46	49.1	0
2000	143	13	126.88	9.05	138.3	14.28	152.34	36.37	8.65	7.24	3	-2.16	-1.18	-0.98	56.86	49.14	0
2000	143	14	119.72	10.39	130.57	12.46	139	35.98	8.98	7.76	3.28	-2.39	-1.24	-1.15	56.01	48.65	0
2000	143	15	86.08	11.21	100.34	14.27	95.61	34.56	5.74	5.16	2.56	-2.23	-1.16	-1.07	55.51	47.49	0
2000	143	16	83.37	5.85	102.16	8.25	90.94	22.95	6.74	6.25	2.55	-2.13	-1.15	-0.99	54.93	48.14	0
2000	143	17	85.23	12.03	109.25	14.43	99.84	24.92	4.69	3.76	1.77	-2.03	-1.11	-0.92	54.84	48.74	0
2000	143	18	113.42	10.53	129.59	12.67	137.74	20.53	6.12	5.47	1.87	-1.82	-1.08	-0.74	54.41	48.8	0

2000	143	19	80.95	15.39	125.26	18.95	170.85	8.1	3.54	2.66	1.33	-1.38	-0.88	-0.5	53.51	48.88	0
2000	143	20	72	9.28	101.51	10.29	174.97	0	3.46	2.89	1.47	-1.16	-0.89	-0.27	53.13	48.77	0
2000	143	21	79.35	20.91	95.11	24.27	131.51	18.23	3.79	3.42	1.54	-1.15	-1.03	-0.12	52.91	48.48	0
2000	143	22	161.48	46.82	168.76	29.65	171.14	27.59	3.26	3.5	1.57	-1.22	-0.95	-0.27	52.74	48.54	0
2000	143	23	156.81	11.47	158.87	6.69	147.09	7.36	3.89	3.73	1.52	-1.09	-0.9	-0.19	52.32	48.55	0
2000	144	0	186.69	10.95	206.34	10.66	178.98	7.44	4.33	3.83	1.47	-1.37	-0.98	-0.4	52.41	48.34	0
2000	144	1	207.94	8.95	206.65	9.43	161.32	4.13	4.04	3.63	1.27	-1.23	-0.94	-0.29	52.35	48.47	0
2000	144	2	229.86	9.24	222.69	9.4	162.7	3.14	2.89	2.62	1.64	-1.11	-0.99	-0.12	52.7	48.33	0
2000	144	3	217.17	9.76	206.63	7.39	168.62	6.35	3.32	3.97	1.92	-1	-0.9	-0.1	52.63	48.8	0
2000	144	4	190.99	10.67	196.17	9.2	174.29	9.15	3.85	4.93	2.07	-1.11	-0.79	-0.32	52.75	48.81	0
2000	144	5	174.52	5.6	194.75	6.55	172.78	12.52	4.5	4.45	1.79	-1.39	-0.76	-0.63	52.91	48.84	0
2000	144	6	168.87	6.04	187.5	9.69	187.5	11.43	4.6	3.69	1.91	-1.7	-0.89	-0.81	53.61	49.13	0
2000	144	7	168.47	9.32	179.8	10.98	175.94	13.2	6.28	5.84	3.96	-2.08	-1.14	-0.94	54.9	49.42	0
2000	144	8	187.38	10.23	196.51	12.52	185.41	14.99	7.9	7.1	4.32	-2.16	-1.17	-1	55.51	49.8	0
2000	144	9	178.98	9.55	188.51	10.63	184.46	14.36	7.76	7.59	5.22	-2.31	-1.16	-1.14	55.96	50.16	0
2000	144	10	151.42	12.07	161.27	15.64	169.01	26.21	5.28	5.24	3.87	-2.63	-1.19	-1.43	57.53	50.68	0
2000	144	11	138.29	7.96	147.67	12.23	158.71	26.43	6.4	6.27	3.58	-2.84	-1.26	-1.58	58.65	51.14	0
2000	144	12	142.35	11.82	155.22	16.39	167.3	24.37	6.22	5.62	3.46	-2.61	-1.25	-1.36	60.2	51.83	0
2000	144	13	159.45	7.7	168.91	10.1	171.73	20.93	11.11	9.95	5.17	-2.14	-1.14	-1	60.76	52.37	0
2000	144	14	158.09	5.92	168.31	8.27	172.56	17.24	9.49	8.48	4.86	-2.1	-1.12	-0.97	61.12	52.06	0
2000	144	15	150.22	5.25	163.9	8.86	169.44	21.59	13.37	10.92	5.91	-2.23	-1.17	-1.05	60.41	51.62	0
2000	144	16	144.25	5.77	157.97	9.46	168.64	20.82	11.13	8.52	4.42	-2.09	-1.15	-0.93	60.06	51.32	0
2000	144	17	140.36	7.72	153.23	11.98	166.89	24.55	9.88	7.54	3.61	-1.82	-1.07	-0.75	60.05	51.35	0
2000	144	18	143.39	6.18	156.36	10.03	163.83	25	13.22	10.36	4.67	-1.68	-1.04	-0.65	59.42	52.07	0
2000	144	19	149.88	5.8	163.28	9.61	170.34	20.77	13.28	10.91	5.86	-1.57	-0.97	-0.6	56.82	51.19	0
2000	144	20	153.31	5.98	166.09	8.47	172.5	18.17	12.96	11.93	6.95	-1.58	-0.97	-0.61	55.56	50.96	0
2000	144	21	148.83	8.36	160.49	10.44	168.26	19.21	11.84	9.76	4.89	-1.64	-0.97	-0.68	54.84	50.7	0
2000	144	22	139.1	6.98	150.15	11.17	157.59	30.11	11.6	9.16	3.72	-1.63	-0.99	-0.64	54.47	50.46	0
2000	144	23	140.92	6.59	150.1	10.26	163.33	23.88	12.57	10.04	4.29	-1.48	-0.85	-0.63	54.3	50.46	0.05
2000	145	0	145.46	9.47	155.79	12.51	161.89	28.42	12.77	10.5	4.86	-1.38	-0.75	-0.64	54.89	51.41	0
2000	145	1	148.87	8.62	162.03	11.6	170.93	21.62	11.1	8.83	4.26	-1.39	-0.76	-0.63	55.52	51.95	0.28
2000	145	2	152.46	8.1	159.46	10.4	153.65	17.72	7.66	5.65	2.1	-1.07	-0.69	-0.38	55.98	52.08	0.19
2000	145	3	144.63	6.42	155.82	11.68	152.43	17.49	8.59	6	2.36	-1.03	-0.6	-0.43	56.41	52.77	0.11
2000	145	4	179.38	13	201.01	16.74	186.16	8.71	7.76	5.73	2.15	-0.93	-0.67	-0.25	57.11	53.2	0
2000	145	5	179.17	13.69	207.58	17.38	182.75	0.18	4.92	3.25	1.04	-1.09	-0.81	-0.28	57.66	53.75	0
2000	145	6	177.7	5.48	201.33	10.1	184.54	5.48	7.37	5.05	2.61	-1.56	-0.85	-0.71	58.42	54.6	0
2000	145	7	177.05	8.48	187.08	11.82	182.16	16.42	8.04	6.64	4.17	-2.12	-1.1	-1.02	59.52	54.99	0
2000	145	8	174.82	14.23	169.27	14.71	173.53	14.72	5.54	4.54	3.26	-2.18	-1.05	-1.13	60.81	55.22	0
2000	145	9	196.81	28.55	192.43	31.25	186.43	33.19	4.91	4.39	2.91	-2.33	-1.05	-1.28	63.21	55.09	0
2000	145	10	259.89	37.68	277.96	43	243.88	54.11	7.44	6.1	3.42	-2.88	-1.32	-1.56	67.74	55.55	0
2000	145	11	227.27	26.61	221.92	32.13	202.67	39.44	6.16	5.72	4.32	-2.7	-1.23	-1.47	71	55.39	0
2000	145	12	214.59	25.97	209.83	32.96	188.18	30.68	6.76	6.06	4.59	-2.36	-0.96	-1.4	73.73	55.41	0
2000	145	13	256.87	26	260.68	28.65	230.86	32.06	10.06	8.09	4.7	-2.99	-1.27	-1.73	77.22	52.43	0
2000	145	14	262.93	13.43	269.94	18.65	251.53	36.61	14	11.78	5.34	-2.66	-1.16	-1.51	79.1	50.19	0
2000	145	15	265.31	8.94	276.72	11.41	257.11	38.44	14.55	12.92	5.24	-2.3	-1.21	-1.09	79.5	49.14	0
2000	145	16	272.39	9.68	285.41	12.06	266.53	40.22	19.26	17.08	6.04	-1.72	-1.12	-0.6	77.09	48.52	0
2000	145	17	277.66	10.14	297.61	13.36	286.52	70.28	16.27	13.01	3.84	-2.11	-1.21	-0.9	70.37	49.17	0
2000	145	18	241.13	20.63	249.39	25.77	227	34.56	7.24	5.42	2.67	-1.59	-1.02	-0.57	70.66	47.55	0
2000	145	19	239.78	13.15	240.95	25.26	180.48	42.39	8.29	5.98	2.35	-0.51	-0.77	0.26	67.99	48.2	0

2000	145	20	215.21	13.28	211.43	16.91	178.12	24.28	10.78	8.43	3.12	-0.07	-0.68	0.62	66.27	48.5	0
2000	145	21	221.77	19.85	215.24	20.45	164.4	33.52	8.62	6.66	3.42	-1.05	-0.85	-0.2	66.44	48.06	0
2000	145	22	187.43	22.39	180.76	27.58	266.85	43.07	4.13	3.11	1.58	0.45	-0.78	1.23	64.52	48.92	0
2000	145	23	169.39	10.75	184.32	19.5	282.53	41	6.21	4.42	2	1.05	-0.3	1.35	61.77	52.11	0
2000	146	0	184.85	51.27	165.27	37.37	86.47	37.92	6.24	5.43	3.09	0.6	-0.3	0.9	60.76	52.13	0
2000	146	1	196.47	46.02	222.98	44.23	230.48	41.35	7.22	6.08	2.65	-0.32	-0.49	0.17	60.55	52.75	0
2000	146	2	25.16	45.55	54.74	40.28	42.02	45.56	3.06	3.64	2.04	0.36	-0.27	0.63	59.47	52.57	0
2000	146	3	130.74	31.03	80.37	40.51	23.9	23.32	2.48	2.66	1.77	0.01	-0.22	0.23	58.4	52.54	0
2000	146	4	231.48	38.65	24.88	39.44	53.53	24.39	2.51	2.39	2.12	1.02	-0.46	1.48	57.06	52.45	0
2000	146	5	127.72	43.92	135.19	38.14	138.49	36.05	3.81	3.38	2.18	0.89	0.34	0.55	56.96	52.35	0
2000	146	6	168.5	7.66	194.26	13.09	200.48	15.87	10.13	7.9	4.99	-1.72	-0.71	-1.02	59.65	53.82	0
2000	146	7	183.02	26.95	184.33	39.41	179.23	50.96	7.96	7.12	4.44	-2.31	-1.04	-1.27	62.87	54.55	0
2000	146	8	275.65	15.01	289.36	23.71	291.88	58.17	17.63	14.85	5.55	-1.96	-1.05	-0.9	67.46	54.46	0
2000	146	9	303.24	16.53	317.13	18.6	327.97	67.53	17.6	15.84	5.6	-2.96	-1.32	-1.64	68.46	53.45	0
2000	146	10	302.02	11.88	317.18	14.09	334.23	56.94	21.27	19.7	6.95	-3.35	-1.34	-2.01	69.38	48.75	0
2000	146	11	286.93	13.47	300.47	16.15	295.52	53.45	24.07	22.08	7.69	-3.32	-1.47	-1.84	70.95	45.26	0
2000	146	12	292.07	14.77	307.71	17.61	306.11	63.85	21.5	19.32	6.61	-3.47	-1.4	-2.08	71.4	44.94	0
2000	146	13	293.07	14.01	307.92	17.07	305.63	59.52	23.33	21.38	7.28	-3.58	-1.4	-2.18	72.31	43.82	0
2000	146	14	296.31	12.52	311.07	14.97	317.04	54.96	21.68	19.62	6.75	-3.1	-1.29	-1.81	72.07	42.4	0
2000	146	15	293.73	14.98	307.22	20.37	308.17	56.76	16.65	14.8	5.56	-3.38	-1.47	-1.92	72.86	40.92	0
2000	146	16	288.31	19.76	301.72	23.25	290	67.17	16.49	14.58	5.56	-3.08	-1.42	-1.66	73.37	40.54	0
2000	146	17	291.32	11.21	304.72	13.14	298.56	51.97	18.07	16.64	5.55	-2.57	-1.35	-1.22	73.01	40.24	0
2000	146	18	304.37	10.82	320.27	12.79	357.78	47.44	11.51	10.63	3.45	-1.8	-1.2	-0.6	71.64	41.07	0
2000	146	19	318.05	9.29	332.31	10.01	359.84	33.97	10.21	9.2	3.07	-0.86	-1.01	0.14	69.58	41.77	0
2000	146	20	315.24	5.27	325.46	5.85	7.87	39.04	11.99	10.42	2.64	0.37	-0.7	1.07	67.08	43.56	0
2000	146	21	298.07	8.84	311.08	11.13	345.42	43.74	14.22	10.86	3	0.51	-0.81	1.32	66.29	44.04	0
2000	146	22	292.27	12.39	311.16	14.19	347.98	60.49	12.18	8.96	2.59	-0.66	-0.99	0.33	66.38	42.66	0
2000	146	23	279.15	10.5	287.03	12.23	252.44	34.72	12.64	9.4	3.34	-0.77	-0.92	0.15	65	41.6	0
2000	147	0	268.92	12.36	279.39	13.88	261.62	31.53	12.44	9.37	3.38	-1.09	-0.97	-0.12	64.22	41.5	0
2000	147	1	301.44	10.71	315.43	13.37	312.29	55.5	16.43	14.07	4.66	-1.84	-1.25	-0.59	64	42.67	0
2000	147	2	311.98	11.41	328.17	12.79	350.16	43.49	13.21	11.6	4.3	-1.89	-1.18	-0.71	62.13	43.98	0
2000	147	3	320.65	14.87	334.83	17.96	356.28	40.13	12.78	11.54	4.89	-1.96	-1.18	-0.78	61.03	43.56	0
2000	147	4	306.91	14.89	321.72	16.54	345.58	48.13	11.49	10.09	3.99	-1.95	-1.22	-0.73	59.78	43.11	0
2000	147	5	319.76	13.14	336.38	14.46	353.34	38.26	16.45	14.66	6.04	-2.03	-1.18	-0.85	58.88	42.44	0
2000	147	6	315.36	12.13	327.53	15.41	349.26	55.05	20.84	19.02	6.44	-2.47	-1.26	-1.21	59.01	41.65	0
2000	147	7	317.79	12.76	331.7	14.08	348.16	51.96	23.6	21.69	7.95	-2.73	-1.26	-1.46	59.85	40.92	0
2000	147	8	308.41	18.51	322.21	20.95	339.46	55.92	19.81	17.12	6.86	-3.08	-1.35	-1.73	61.03	40.88	0
2000	147	9	319.73	20.91	328.62	24.85	342.96	45.19	15.29	13.75	6.64	-3.38	-1.49	-1.89	62.64	41.58	0
2000	147	10	302.16	15.87	312.5	17.39	322.88	62.42	13.9	12.47	5.21	-3.96	-1.55	-2.41	64.96	43.13	0
2000	147	11	295.96	16.17	309.15	19.15	306.58	57.41	15.47	13.83	5.4	-4.16	-1.57	-2.59	66.81	44.03	0
2000	147	12	292.6	22.26	308.18	27.32	321.08	60.37	14.03	12.5	5.52	-3.67	-1.42	-2.25	68.13	43.55	0
2000	147	13	290.8	16.96	301.59	18.98	301.05	53.65	15.93	14	5.65	-3.99	-1.5	-2.49	70.03	44.21	0
2000	147	14	300.52	15.54	313.53	20.01	309.42	67.77	16.92	14.8	5.28	-4.06	-1.58	-2.48	71.33	45.14	0
2000	147	15	305.72	11.27	317.54	13.87	327.93	62.2	17.5	15.93	5.34	-3.26	-1.4	-1.85	70.58	45.14	0
2000	147	16	318.82	13.97	331.27	15.81	352.22	42.41	18.13	16.09	6.34	-2.76	-1.33	-1.43	69.93	44.33	0
2000	147	17	319.56	16.84	331.38	20.59	350.24	41.58	15.48	13.93	5.78	-2.72	-1.31	-1.41	69.83	43.58	0
2000	147	18	327.97	15.2	340.11	17.78	353.47	37.72	14.1	12.81	6.04	-2.14	-1.19	-0.95	68.7	42.93	0
2000	147	19	340.34	10.56	354.08	12.12	0.41	18.6	12.89	11.91	6.25	-1.67	-1.11	-0.56	66.66	43.5	0
2000	147	20	341.38	7.62	353.6	11.45	0.2	19.29	14.08	12.94	6.15	-1.59	-1.07	-0.52	64.86	43.31	0

2000	147	21	336.38	6.09	349.3	7.23	357.91	22.33	14.68	13.11	5.33	-1.37	-1.02	-0.35	63.51	42.99	0
2000	147	22	310.1	10.19	320.27	12.09	306.72	50.63	13.03	10.25	2.74	-1.1	-1.04	-0.06	62.11	42.26	0
2000	147	23	305.87	6.18	317.57	8.49	326	74.5	20.44	17.57	4.62	-1.43	-1	-0.42	61.08	42.09	0
2000	148	0	312.23	6.21	328.05	7.61	349.46	51.65	25.84	22.89	6.44	-1.41	-0.9	-0.51	60.74	42.11	0
2000	148	1	307.75	7.14	320.25	9.3	333.22	68.32	25.36	21.53	5.65	-1.45	-0.91	-0.53	60.59	42.37	0
2000	148	2	313.75	9.94	328.77	12.37	354.66	43.55	22.03	19.35	6.88	-1.59	-1.02	-0.57	60.33	42.77	0
2000	148	3	321.22	14.65	337.65	17.95	357.49	35.14	19.31	16.65	7.5	-1.57	-1	-0.57	60.07	42.78	0
2000	148	4	349.01	20.45	19.08	25.7	49.8	27.34	11.18	8.47	4.61	-0.32	-0.53	0.21	58.43	42.82	0
2000	148	5	343.88	43.24	62.71	58.14	114.19	32.52	3.15	2.39	2.05	0.15	-0.56	0.72	56.28	43.31	0
2000	148	6	327.18	17.68	345.99	28.72	16.31	22.18	5.21	3.81	2.39	-2	-1.03	-0.96	58.75	44.62	0
2000	148	7	12.2	38.69	41.97	40.99	39.46	47.98	3.66	3.36	2.74	-2.36	-1.18	-1.18	60.69	45.24	0
2000	148	8	333	52.76	309.61	62.58	322.33	61.8	3.04	3.03	2.84	-2.73	-1.38	-1.35	63.58	44.95	0
2000	148	9	273.69	56.3	304.74	46.06	293.85	48.97	3.64	3.78	3.48	-2.73	-1.22	-1.51	65.45	44.28	0
2000	148	10	250.53	16.34	256.02	18.31	227.4	29.72	9.2	8.35	5.28	-3.49	-1.55	-1.94	67.51	44.21	0
2000	148	11	265.69	18.54	276.1	20.53	241.34	31.78	8.57	7.88	4.2	-3.7	-1.51	-2.19	68.76	45.66	0
2000	148	12	260.56	27.21	276.83	31.55	261.07	49.35	8.06	7.02	4.08	-3.42	-1.41	-2.01	69.46	46.12	0
2000	148	13	239.99	15.63	248.49	19.18	232.21	34.68	9.81	8.73	4.91	-3.15	-1.35	-1.8	70.13	46.01	0
2000	148	14	224.76	17.6	235.27	20.74	217.83	31.2	10.33	8.89	5.12	-3.32	-1.35	-1.97	71.4	47.05	0
2000	148	15	224.12	10.08	231.52	11.32	213	25.63	12.81	11.71	5.63	-2.93	-1.23	-1.7	71.25	47.54	0
2000	148	16	219.26	8.59	226.79	9.85	204.69	23.26	13.07	12.14	6.12	-2.88	-1.2	-1.68	70.49	48.63	0
2000	148	17	227.99	12.15	234.12	15.84	213.69	27.91	12.11	10.04	5.06	-2.58	-1.16	-1.42	70.18	49.09	0
2000	148	18	258.19	8.71	257.61	13.18	231.66	26.65	11.5	9.31	3.79	-1.65	-0.78	-0.88	69.02	48.59	0
2000	148	19	239.73	42.31	224.01	41.76	178.48	35.8	8.67	5.76	2.68	-1.16	-0.87	-0.29	65.9	48.96	0
2000	148	20	303.37	33.56	342.27	42.22	16.4	55.97	5.86	4.98	2.77	-0.97	-0.92	-0.05	65.14	48.29	0
2000	148	21	351.65	9.18	4.49	11.29	28.26	14.87	10.23	6.98	2.84	0.75	-0.3	1.05	63.44	47.53	0
2000	148	22	5.93	9.78	32.57	6.79	43.28	11.31	8.87	7.73	3.58	0.27	-0.69	0.96	61.8	44.19	0
2000	148	23	2.1	10.98	29.43	10.47	27.79	11.97	9.06	8.88	4.8	0.15	-0.57	0.72	60.08	43.67	0
2000	149	0	358.87	9.95	13.59	10.84	13.74	15.78	11.96	8.91	4.36	-0.21	-0.59	0.38	58.61	43.69	0
2000	149	1	356.44	8.7	4.78	11.2	11.95	15.86	13.47	11.55	5.9	-1.24	-0.88	-0.36	58.5	42.45	0
2000	149	2	359.2	12.77	14.83	12.84	26.35	16.41	11.38	9.55	5.14	-0.9	-0.74	-0.16	57.19	42.03	0
2000	149	3	358.96	8.58	16.74	8.23	26.34	14.08	11.72	9.32	4.54	-0.08	-0.49	0.41	55.65	41.63	0
2000	149	4	359.97	10.02	14.06	7.64	28.5	10.21	12.66	9.92	5.41	0.75	-0.15	0.9	54.31	42.12	0
2000	149	5	355.29	9.35	12.44	11.57	25.02	19.97	12.51	9.78	4.82	-0.14	-0.22	0.08	54.56	42.73	0
2000	149	6	0.59	9.65	13.63	13.39	18.9	18.18	11.17	8.38	5.55	-2.24	-1.18	-1.06	56.8	42.93	0
2000	149	7	356.83	9.44	6.57	13.22	7.58	18.66	8.85	8.05	5.31	-2.85	-1.38	-1.47	58.88	42.54	0
2000	149	8	353.27	11.62	359.73	12.67	355.58	20.18	6.8	6.58	4.25	-2.86	-1.32	-1.54	60.51	43.03	0
2000	149	9	348.3	11.02	355.58	12.96	356.25	20.26	7.65	7.63	5.22	-3.22	-1.36	-1.86	61.79	43.64	0
2000	149	10	351.77	13.63	357.69	16.35	357.21	26.62	6.63	6.3	4.48	-3.02	-1.43	-1.59	62.61	43.38	0
2000	149	11	349.85	9.46	354.85	11.58	344.85	22.49	5.09	5.52	3.93	-2.98	-1.32	-1.66	63.45	42.86	0
2000	149	12	359.53	19.4	10.59	26.77	11.54	31.29	5.57	5.48	4.25	-2.85	-1.34	-1.51	64.52	42.77	0
2000	149	13	9.77	20.54	18.88	25.92	14.23	33.96	6.53	6.1	4.72	-2.79	-1.28	-1.51	65.3	43.04	0
2000	149	14	357.13	10.52	0.14	11.5	348.38	25.68	7.18	6.82	4.41	-2.66	-1.22	-1.44	65.01	44.02	0
2000	149	15	6.64	13.87	4.49	13.27	353.23	18.65	7.23	6.97	4.15	-2.46	-1.12	-1.34	65.43	44.43	0
2000	149	16	22.42	9.63	32.33	12.23	25.84	16.14	9.37	8.71	6.22	-2.57	-1.31	-1.25	65.42	43.95	0
2000	149	17	34.93	10.97	46.36	13.68	37.2	18.56	7.5	6.94	4.65	-2.27	-1.22	-1.06	65.24	43.39	0
2000	149	18	71.34	6.42	87.79	10.5	77.27	16.01	8.56	6.47	2.7	-1.7	-1.07	-0.63	64.19	44.61	0
2000	149	19	102.13	7.35	107.76	6.62	79.17	13	6.88	5.95	1.98	-1.45	-1.02	-0.43	63	44.97	0
2000	149	20	101.98	5.92	100.73	7.77	71.57	11.94	7.37	6.4	2.32	-1.3	-0.94	-0.36	61.87	44.81	0
2000	149	21	87.96	6.29	81.37	7.72	59.83	13.59	6.82	6.18	2.56	-1.27	-0.78	-0.48	61.25	44.83	0

2000	149	22	87.09	6.3	91.83	8.8	79.51	28.16	9.87	7.72	2.66	-1.32	-0.77	-0.54	60.19	45.34	0
2000	149	23	124.77	11.17	140.62	15.4	153.72	27.81	7.34	5.87	2.57	-1.96	-1.14	-0.82	59.15	45.87	0
2000	150	0	91.6	53.34	135.39	39.44	139.17	20	2.88	2.19	1.5	-1.93	-1.14	-0.79	58.3	44.41	0
2000	150	1	71.57	18.18	83.52	15.27	92.23	19.66	3.58	3.28	2.15	-1.9	-1.12	-0.77	57.96	44.27	0
2000	150	2	39.75	14.29	44.69	16.04	29.17	19.64	6.15	5.23	3.56	-2.08	-1.15	-0.93	57.45	44.43	0
2000	150	3	49.1	51.54	38.92	56.72	23.56	16.69	3.38	2.99	2.34	-2.09	-1.18	-0.92	56.86	44.51	0
2000	150	4	35.34	17.02	35.55	15.29	22.67	16.44	6.23	5.04	3.38	-2.02	-1.14	-0.87	56.5	44.6	0
2000	150	5	47.6	13.5	53.59	17.77	38.22	18.29	7.72	6.1	3.87	-2.13	-1.17	-0.96	56.5	44.33	0
2000	150	6	53.22	13.01	65.09	17.57	49.3	25.12	8.98	7.36	4.33	-2.16	-1.21	-0.96	56.48	43.64	0
2000	150	7	50.8	16.96	58.26	22.22	52.63	28.64	6.32	5.2	3.23	-2.11	-1.19	-0.92	56.51	43.25	0
2000	150	8	45.25	14.45	53.07	15.83	32.81	21.8	7.84	7.15	5.27	-2.44	-1.23	-1.22	57.3	42.33	0
2000	150	9	53.01	21.22	59.15	23.87	41.79	32.98	9.15	7.91	5.33	-2.6	-1.29	-1.31	59.49	41.94	0
2000	150	10	54.78	14.83	66.33	18.18	47.65	29.72	10.89	9.46	6.07	-2.7	-1.32	-1.38	60.74	41.46	0
2000	150	11	20.65	12.67	28.85	16.48	23.09	19.67	11.3	9.94	7.28	-2.81	-1.39	-1.43	61.56	41.84	0
2000	150	12	30.9	12.17	41.78	16.16	33.38	20.81	12.08	10.56	6.8	-2.59	-1.3	-1.3	61.95	41.62	0
2000	150	13	18.67	14.37	21.91	16.76	13.98	20.95	7.16	6.27	4.4	-2.51	-1.2	-1.31	62.14	42.15	0
2000	150	14	49.8	23.26	55.06	21.81	35.84	31.35	9.09	7.98	4.83	-2.59	-1.25	-1.33	63.69	41.26	0
2000	150	15	150.47	18.99	166.51	19.61	168.82	32.93	8.47	8.82	6.4	-2.74	-1.25	-1.48	62.64	45.01	0
2000	150	16	177.11	10.72	194.11	10.67	189.45	17.54	5.64	5.79	4.24	-2.39	-1.12	-1.27	62.45	45.06	0
2000	150	17	139.62	25.88	161.39	31.19	189.73	44.46	3.91	3.56	2.85	-2.43	-1.18	-1.25	63.37	44.6	0
2000	150	18	102.95	13.34	114.53	15.74	118.06	28.55	5.77	5.32	2.2	-1.83	-1.1	-0.74	62.3	44.16	0
2000	150	19	107.21	4.65	112.87	6.27	91.6	14.69	7.67	6.86	1.94	-0.34	-0.83	0.49	59.77	44.22	0
2000	150	20	135.99	4.57	144.67	7.3	156.78	12.74	8.91	6.93	1.69	0.23	-0.66	0.89	56.86	44.73	0
2000	150	21	122.79	37.64	150.23	44.78	212.33	41.32	4.43	3.12	1.91	-1.5	-1.11	-0.39	55.71	44.61	0
2000	150	22	48.34	37.21	70.53	50.16	6.74	42.59	4.32	3.19	2	-1.62	-1.08	-0.54	54.46	45.36	0
2000	150	23	78.01	17.87	61.25	20.94	37.82	26.57	4.25	3.2	1.78	-1.62	-1.13	-0.48	53.12	45.5	0
2000	151	0	64.65	21.58	52.11	19.57	34.52	16.22	3.3	3.08	1.94	-1.29	-1.11	-0.18	52.36	45.25	0
2000	151	1	58.49	11.4	43.97	9.54	45.82	8.65	4.23	3.29	1.74	-0.38	-1.04	0.66	50.97	45.2	0
2000	151	2	54.3	6.02	39.73	8.38	31.49	10.63	7.97	5.18	2.53	0.02	-0.64	0.66	49.85	44.83	0
2000	151	3	50.84	8.75	42.37	10.51	24.84	12.64	8.2	6.17	3.33	-0.32	-0.58	0.27	49.01	43.9	0
2000	151	4	47.88	6.45	55.54	9.24	40.45	17.42	10.68	9.57	5.65	-1.95	-1.06	-0.89	49.69	41.39	0
2000	151	5	34.49	11.17	42.7	11.49	26.13	15.93	9.25	8.24	5.94	-2.24	-1.19	-1.05	49.79	40.76	0
2000	151	6	19.59	14.32	31.47	15.96	23.42	18.4	8.37	7.31	5.45	-2.33	-1.24	-1.09	50.29	41.16	0
2000	151	7	5.74	11.17	14.5	15.35	14.32	19.58	8.65	7.68	5.14	-2.38	-1.25	-1.12	50.99	41.55	0
2000	151	8	7.86	15.7	18.77	21.37	15.92	25.2	7.55	6.45	4.56	-2.55	-1.29	-1.26	52.3	41.96	0
2000	151	9	49.36	20.31	55.53	24.11	41.74	26.6	7.24	6.26	4.61	-2.5	-1.24	-1.27	54.42	42.28	0
2000	151	10	51.21	23.65	61.06	30.49	31.41	39.94	7.58	6.54	4.67	-2.79	-1.35	-1.45	56.63	42.89	0
2000	151	11	350.11	18.92	353.4	16.7	352.68	24.93	7.4	6.99	4.75	-3.09	-1.34	-1.75	58.18	43.45	0
2000	151	12	56.29	28.58	54.69	28.2	31.42	29.94	7.8	7.45	5.32	-2.76	-1.2	-1.56	61.21	43.58	0
2000	151	13	259.57	59.89	286.53	54.69	267.96	54.11	4.95	4.81	3.39	-2.64	-1.1	-1.54	62.7	44.19	0
2000	151	14	162.57	14.74	174.36	16.37	182.36	22.24	9.22	9.37	7.3	-3.37	-1.33	-2.04	64.02	45.97	0
2000	151	15	165.87	7.35	177.04	8.32	181.54	14.7	11.85	12.64	9.08	-3.31	-1.34	-1.97	63.5	46.35	0
2000	151	16	162.97	8.63	179.91	11.82	185.76	15.07	14.18	13.88	9.59	-3.02	-1.33	-1.69	63.36	45.94	0
2000	151	17	161.41	5.89	178.81	7.65	182.97	14.51	11.79	13.5	8.79	-2.61	-1.22	-1.4	62.09	45.97	0
2000	151	18	136.07	9.13	147.8	12.21	157.2	30.82	11.89	10.67	4.72	-2.18	-1.17	-1.01	60.92	44.67	0
2000	151	19	127.12	6.5	139.42	10.58	155.03	24.63	11.23	7.89	2.45	-1.28	-0.97	-0.31	57.9	43.34	0
2000	151	20	119.64	8.83	138.1	12.48	151.68	26.31	10.86	7.09	1.95	-0.26	-0.59	0.33	55.95	42.86	0
2000	151	21	109.57	27.86	100.02	39.55	175.55	16.18	6.89	4.09	1.56	-0.97	-0.83	-0.14	54.96	42.77	0
2000	151	22	124.37	11.32	102.9	18.3	70.02	21.02	6.22	4.44	1.93	-0.79	-0.66	-0.13	53.62	43.63	0

2000	151	23	150.23	8.3	134.44	45.56	88.59	7.46	5	3.73	1.88	0.13	-0.07	0.21	51.93	43.92	0
2000	152	0	152.88	4.75	153.85	4.25	123.85	8.66	3.93	4.36	1.51	1.1	-0.62	1.73	49.92	43.38	0
2000	152	1	131.63	19.49	94.42	41.09	101.79	16.68	6.03	3.92	1.81	0.4	-0.16	0.56	49.34	43.41	0
2000	152	2	103.98	40	39.71	14.3	42.03	13.88	3.13	4.42	3.44	-0.02	-0.4	0.38	49.04	43.57	0
2000	152	3	97.87	13.21	72.7	26.25	28.21	27.97	6.17	3.86	2.3	-1	-0.72	-0.27	49.13	43.3	0
2000	152	4	77.76	14.84	72.34	18.17	50.24	21.88	7.01	5.04	2.9	-2.04	-1.05	-0.99	49.84	43.4	0
2000	152	5	99.16	4.96	105.54	9.84	82.86	28.42	8.5	7	2.83	-2.12	-1.07	-1.05	49.84	42.8	0
2000	152	6	97.17	7.63	104.95	12.17	85.74	26.67	5.36	5.04	2.5	-2.37	-1.16	-1.22	50.74	42.91	0
2000	152	7	113.24	15.11	124.18	13.55	126.18	35.91	4.98	5.1	2.59	-2.67	-1.2	-1.47	51.86	43.08	0
2000	152	8	173.2	19.58	184.21	24.51	187.36	32.4	5.49	5.07	3.98	-2.75	-1.26	-1.49	53.19	43.63	0
2000	152	9	165.34	20.18	181.78	22.57	187.14	31.46	5.59	5.64	4.81	-2.84	-1.26	-1.58	55.19	44.67	0
2000	152	10	149.38	16.84	159.15	20.03	171.66	26.74	6.65	6.46	4.77	-3.36	-1.45	-1.91	57.81	45.83	0
2000	152	11	139.36	13.1	153.18	17.9	165.86	29.93	8.63	8.3	5.73	-3.89	-1.49	-2.41	60.21	46.91	0
2000	152	12	144.61	17.94	154	24.1	160.59	37.24	6.79	6.69	4.78	-3.42	-1.24	-2.18	61.8	47.93	0
2000	152	13	146.39	13.08	160.57	14.84	172.84	22.72	7.19	7.24	6.02	-3.47	-1.34	-2.12	63.85	47.95	0
2000	152	14	140.05	11.86	152.53	16.47	167.72	30.89	7.99	7.97	5.57	-3.82	-1.37	-2.45	67.03	48.5	0
2000	152	15	136.83	7.54	147.4	11.71	158.83	32.67	10.66	10.21	5.16	-3.66	-1.43	-2.23	69.09	48.32	0
2000	152	16	140.66	6.47	150.81	9.41	160.19	30.57	12.25	10.87	5.07	-3.21	-1.28	-1.93	70.06	47.31	0
2000	152	17	144.31	4.44	154.72	8.76	166.31	22.2	13.32	9.86	4.73	-2.6	-1.09	-1.52	69.76	47.01	0
2000	152	18	146.81	2.48	157.73	7.52	164.6	21.63	14.33	9.79	4.5	-0.91	-0.37	-0.54	67.17	48.58	0
2000	152	19	150.18	3.03	161.1	7.25	169.06	17.76	12.16	9.03	4.46	-0.98	-0.63	-0.35	65.01	49.58	0
2000	152	20	154.26	3.57	157.16	6.93	167.08	15.1	7.67	6.81	2.48	-0.72	-0.5	-0.22	63.38	49.47	0
2000	152	21	165.6	2.56	164.08	5.32	167.22	13.56	10.55	7.47	2.98	0.05	-0.11	0.16	61.83	50.03	0
2000	152	22	173.75	4.53	189.23	6.15	185.59	8.45	9.24	7.36	3.33	-0.59	-0.88	0.28	60.77	49.99	0
2000	152	23	171.8	4.18	183.81	5.52	188.37	9.86	7.48	6.7	2.98	-0.94	-0.9	-0.04	60.08	50.05	0
2000	153	0	169.37	5.21	180.29	7.04	189.03	9.65	7.56	6.08	2.79	-1.38	-0.93	-0.45	59.85	50.71	0
2000	153	1	171.6	6.78	180.36	9.32	178.32	10.11	6.47	5.36	2.72	-1.74	-1.06	-0.67	59.92	50.93	0
2000	153	2	163.31	4.74	170.79	7.61	174	12.84	6.84	5.48	2.76	-1.72	-1.01	-0.71	59.65	50.92	0
2000	153	3	177.17	6.21	190.25	10.77	179.49	8.51	7.02	5.62	2.46	-1.1	-0.92	-0.19	58.85	51.04	0
2000	153	4	180.39	3.01	194.65	6.2	185.18	7.73	8.4	6.61	2.72	-0.85	-0.76	-0.09	58.53	50.89	0
2000	153	5	176.49	4.71	208.08	9.46	195.6	15.03	7.74	5.32	2.01	-0.63	-0.32	-0.31	58.58	51.04	0
2000	153	6	176.09	10.32	189.29	12.45	183.99	12.91	6.15	4.64	3.02	-1.77	-0.72	-1.05	60.39	52.1	0
2000	153	7	160.6	15.39	168.66	15.17	178.68	18.64	4.63	4.65	3.88	-2.44	-1.05	-1.39	63.11	52.54	0
2000	153	8	168	24.99	190.26	23.38	191.25	23.9	3.4	3.5	2.92	-2.35	-1.12	-1.23	65.2	53.5	0
2000	153	9	147.94	20.12	190.85	27.32	222.51	28.97	3.3	3.45	3.73	-2.09	-1.09	-1	68.43	54.8	0
2000	153	10	141.5	19.37	191.39	17.8	212.07	25.65	3.71	4.34	4.36	-1.91	-0.92	-0.99	71.9	56.14	0
2000	153	11	110.8	25.22	193.96	17.65	208.66	16.84	3.56	4.12	4.5	-1.68	-0.61	-1.07	75.35	57.28	0
2000	153	12	79.48	34.26	190.2	14.05	188.67	16.07	2.9	4.41	4.53	-1	0.35	-1.35	78.41	58.01	0
2000	153	13	102.75	45	185.67	20.15	198.37	21.73	2.08	2.72	3.34	-1.95	-1.09	-0.86	81.31	999.99	0
2000	153	14	161.59	27.83	177.54	14.3	182.58	14.85	4.24	5.17	4.44	-1.83	-0.74	-1.09	83.02	999.99	0
2000	153	15	188	18.54	181.21	12.87	180.79	16.39	5.41	5.11	4.48	-2.42	-0.98	-1.44	84.23	999.99	0
2000	153	16	220.97	25.22	205.87	27.09	189.56	22.82	5.47	4.58	3.63	-2.15	-0.91	-1.24	84.48	63.23	0
2000	153	17	268.46	11.64	277.88	16.59	247.07	28.29	9.86	8.53	3.53	-2	-1.08	-0.92	84.99	61.37	0
2000	153	18	248.51	11.99	251.09	13.26	224.78	23.15	8.49	6.9	2.76	-1.43	-1	-0.43	84.01	60.79	0
2000	153	19	254.7	4.39	258.74	6.46	198.36	13.51	11.29	8.42	2.69	1.24	-0.48	1.73	80.06	60.83	0
2000	153	20	281.26	7.34	278.42	52.05	151.01	32.08	15.16	5.74	2.25	3.12	1.59	1.53	77.06	59.98	0
2000	153	21	311.98	12.72	352.66	41.29	63.03	33.51	13.21	5.8	2.73	2.01	1.05	0.95	76.37	56.53	0
2000	153	22	337.64	7	345.83	9.42	27.35	12.74	9.36	6.35	3.73	3.15	0.39	2.76	74.66	55.36	0
2000	153	23	347.64	7.87	2.56	6.64	17.76	15.8	9.12	8.54	4.51	3.22	0.09	3.14	72.48	55.33	0

2000	154	0	343.67	8.41	12.06	24.57	98.03	23.89	7.78	5.19	1.72	6.57	2.43	4.14	67.83	56.76	0
2000	154	1	346.26	8.01	11.23	11.13	32.6	19.36	7.95	6.4	4.07	7.18	2.86	4.32	66.11	55.35	0
2000	154	2	347.14	5.7	10.46	8.23	35.97	19.41	9	6.3	3.86	7.34	2.29	5.05	64.65	52.84	0
2000	154	3	313.03	24.45	347.87	32.42	107.76	46.3	5.9	4.23	2.26	6.67	4.11	2.56	62.91	51.55	0
2000	154	4	247.41	16.03	1.56	28.36	31.26	9.44	2.8	2.23	2.82	7.75	5.07	2.67	61.69	51.71	0
2000	154	5	134.82	41.49	23.71	12.73	9.06	16.1	2.38	3.52	2.79	3.73	2.14	1.59	61.54	50.39	0
2000	154	6	162.76	32.91	7.69	23.68	15.78	14.46	1.72	2.66	2.29	2.38	2.8	-0.42	63.68	48.87	0
2000	154	7	191.19	14.44	158.9	32.13	167.01	25.6	4.3	2.62	2.21	-0.31	0.73	-1.04	67.65	51.48	0
2000	154	8	172.14	8.89	174.56	16.03	174.53	15.07	6.07	4.09	3.35	-1.45	-0.27	-1.18	71.91	51.11	0
2000	154	9	154.79	8.62	170.61	12.14	191.64	21.87	6.33	5.94	4.48	-2.04	-0.87	-1.16	74.98	53.11	0
2000	154	10	175.87	12.03	171.92	14.03	177.89	18.51	9.26	6.5	4.76	-2.65	-0.85	-1.79	79.96	52.58	0
2000	154	11	167.93	7.1	171.83	10.83	175.14	18.59	12.94	10.33	6.88	-3.21	-1.25	-1.96	84.63	58.95	0
2000	154	12	166.24	13.95	168.39	14.41	169.57	21.41	11.48	9.89	5.87	-2.8	-0.94	-1.85	86.41	61.95	0
2000	154	13	217.46	11.68	228.33	14.35	209.66	29.51	16.92	14.92	7.33	-2.83	-1.15	-1.67	89.13	62.61	0
2000	154	14	206.12	7.85	217.71	11.44	196.18	20.54	20.57	17.68	9.86	-2.89	-1.26	-1.63	89.74	63.61	0
2000	154	15	206.49	9.18	215.82	11.44	194.16	18.92	21.75	18.55	10.69	-2.42	-1.19	-1.23	89.79	62.24	0
2000	154	16	213.76	7.8	224.03	9.68	198.79	23.33	21.82	18.78	9.38	-1.99	-1.05	-0.93	89.14	999.99	0
2000	154	17	220.65	8.84	230.69	11.97	205.79	25.26	22.26	18.62	8.41	-1.74	-0.99	-0.74	88.71	61.46	0
2000	154	18	244.06	24.72	247.1	26.8	221.9	46.14	17.91	15.28	6.36	-0.66	-0.75	0.08	75.2	62.03	0.03
2000	154	19	175.3	12.92	171.27	15.08	157.25	38.56	8.06	7.48	3	0.29	-0.49	0.78	69.68	62.46	0
2000	154	20	186.64	24.59	143.58	41.83	22.39	51.76	4.83	3.91	2.04	0.75	-0.02	0.77	69.08	62.78	0
2000	154	21	187.32	8.6	180.72	8.8	180.9	17.34	9.03	6.95	3.5	0.3	0.19	0.11	68.09	62.17	0
2000	154	22	242.03	12.65	216.42	19.04	173.9	27.97	9.45	6.97	2.94	2.57	1.3	1.27	67.96	61.29	0
2000	154	23	225.15	14.3	208.21	15.4	191	14.98	10.85	9.23	3.57	1.87	0.98	0.88	67.7	61.67	0
2000	155	0	296.14	11.97	306.46	14.78	304.12	55.74	12.48	10.16	3.04	-0.61	-1.04	0.43	70.41	60.3	0
2000	155	1	314.3	11.04	327.92	12.94	343.24	59.39	18.7	17.09	5.69	-1.54	-1.14	-0.4	69.39	55.03	0
2000	155	2	309.54	12.53	323.72	13.91	344.87	56.33	22.91	20.53	6.73	-1.74	-1.18	-0.56	65.77	47.4	0
2000	155	3	300.57	11.57	312.62	15.15	310.16	55.47	18.67	16.14	5.48	-1.78	-1.23	-0.55	63.41	45.14	0
2000	155	4	302.72	8.29	311.99	11.4	309.44	70.75	19.29	16.57	4.44	-1.82	-1.23	-0.59	61.94	45.22	0
2000	155	5	305.9	12.22	317.39	13.79	327.02	68.36	20.3	17.55	5.63	-1.97	-1.21	-0.76	61.52	44.22	0
2000	155	6	313.13	19.77	327.77	21.68	351.85	59.66	17.76	15.58	6	-2.22	-1.22	-1	61.94	41.88	0
2000	155	7	326.14	31.11	338.47	34.17	359.79	57.73	14.07	11.9	6.1	-2.6	-1.29	-1.32	63.13	42.12	0
2000	155	8	321.87	16.24	336.08	19.94	352.14	47.74	19.16	17.19	7.71	-3.01	-1.31	-1.7	64.23	41.73	0
2000	155	9	316.19	13.54	328.52	17.33	350.33	47.59	15.74	14.18	6.06	-3.03	-1.32	-1.72	64.9	42.43	0
2000	155	10	1.29	12.73	12.71	16.35	12.48	19.57	18.24	15.61	9.64	-3.59	-1.55	-2.04	66.01	43.68	0
2000	155	11	0.93	13.97	10.27	17.6	13.05	19.99	17.48	14.41	9.58	-3.91	-1.72	-2.19	65.74	44.32	0
2000	155	12	351.35	9.66	2.22	13.09	7.94	21.51	20.21	18.01	9.74	-3.92	-1.57	-2.35	66.02	42.76	0
2000	155	13	348.32	7.46	0.02	11.67	4.76	21.34	23.51	20.87	10.61	-3.79	-1.44	-2.35	66.87	40.78	0
2000	155	14	336.23	7.45	346.96	12.44	357.9	30.46	19.27	17.91	7.79	-3.64	-1.36	-2.28	68.23	41.98	0
2000	155	15	336.13	7.5	346.41	10.37	356.12	29.43	16.85	15.65	6.69	-3.37	-1.31	-2.06	69.54	42.17	0
2000	155	16	336.5	8.95	345.77	10.6	354.73	29.26	13.95	12.64	6.01	-3.15	-1.33	-1.82	70.32	41.76	0
2000	155	17	344.72	11.18	354.29	12.4	358.02	22.7	11.04	10.2	4.98	-2.67	-1.27	-1.41	70.43	41.03	0
2000	155	18	345.39	6.24	354.04	10.1	1.6	20.44	10.74	9.95	4.26	-1.91	-1.05	-0.86	69.7	39.92	0
2000	155	19	352.75	5.18	2.29	6.53	359.38	11.9	8.31	5.97	2.63	0.97	-0.23	1.2	66.25	42.33	0
2000	155	20	6.13	4.31	23.84	6.75	34.03	15.71	8.77	6.29	2.85	2.34	0.17	2.17	63.86	42.14	0
2000	155	21	24.92	5.07	19.03	5.86	29.41	12.27	4.83	4.67	2.05	4.02	2.09	1.93	60.3	43.52	0
2000	155	22	26.54	15.48	10.22	6.05	17.15	11.56	3.09	7.15	4.36	5.57	3.08	2.49	58.22	43.3	0
2000	155	23	12.3	6.37	16.54	5.16	23.79	9.56	3.68	7.31	4.57	7.21	5.24	1.97	56.2	43.97	0
2000	156	0	15.74	5.47	15.43	4.82	21.67	10.83	3.59	6.99	3.78	8.42	7.22	1.2	54.77	43.77	0

2000	156	1	14.63	8.7	23.9	4.62	27.62	9.44	4.64	12.37	7.99	9.61	8.35	1.26	53.72	42.55	0
2000	156	2	16.34	12.12	29.21	22.8	30.26	54.79	6.75	6.75	4	4.81	4.39	0.42	53.34	41.37	0
2000	156	3	264.1	32.83	29.58	13.43	48.56	21.68	2.58	4.2	2.82	3.16	2.12	1.05	51.7	41.35	0
2000	156	4	168.12	42.65	16.9	4.83	21.26	12.58	1.93	6.3	3.85	3.68	2.89	0.79	50.97	41.27	0
2000	156	5	2.49	6.87	17.78	5.24	25.46	9.68	5.65	6.83	5.14	3.53	3.54	-0.01	51.33	42.03	0
2000	156	6	8.61	6.44	21.73	10.65	26.72	10.32	5.36	5.32	4.99	1.23	1.8	-0.57	53.69	42.52	0
2000	156	7	14.82	7.23	43.79	9.82	41.07	17.4	5.97	6.02	5.04	-1.35	-0.18	-1.16	58.11	42.96	0
2000	156	8	38.47	25.88	67.67	25.62	47.38	43.97	3.5	3.9	3.37	-2.37	-1.08	-1.3	62.61	43.51	0
2000	156	9	181.98	44.93	250.22	32.38	271.23	32.14	2.52	3.07	3.27	-2.07	-0.75	-1.33	66.4	48.02	0
2000	156	10	154.78	17.08	171.67	18.79	183.87	20.16	5.66	6.06	5.53	-3.03	-1.29	-1.74	69.79	48.67	0
2000	156	11	145.99	12.7	159.53	16.36	168.86	30.57	9	8.68	6.17	-3.81	-1.51	-2.3	72.01	46.32	0
2000	156	12	149.06	7.37	159.46	10.89	168.4	22.32	9.93	8.46	5.13	-3.05	-1.26	-1.79	71.09	45.31	0
2000	156	13	143.12	8.03	157.36	10.27	168.93	22.37	11.46	9.93	7.08	-3.5	-1.37	-2.14	72.69	43.31	0
2000	156	14	146.2	5.43	159.34	8.15	166.95	21.64	14.11	11.2	6.32	-2.47	-1.07	-1.4	71.35	40.93	0
2000	156	15	143.95	4.44	155.84	8.89	165.8	25.16	15.69	11.57	5.54	-2.06	-1.02	-1.04	70.89	39.71	0
2000	156	16	146.59	4.65	159.27	8.81	166.79	24.39	16.8	12.65	6.65	-2.77	-1.23	-1.54	71.29	39.78	0
2000	156	17	149.53	5.13	161.16	9.22	167.49	21.78	14.8	11.9	6.41	-2.34	-1.13	-1.2	70.21	37.02	0
2000	156	18	151.99	4.2	163.45	7.51	170.48	19.21	13.67	11.45	5.74	-1.25	-0.81	-0.44	67.9	36.69	0
2000	156	19	164.58	4.59	175.4	8.37	177.22	15.32	16.33	13.63	7.39	-1.33	-0.89	-0.44	66.56	36.83	0
2000	156	20	167.03	4.8	178.71	8.25	180.76	12.77	13.42	11.03	6.02	-1.66	-1.04	-0.62	64.39	40.44	0
2000	156	21	209.35	10.05	222.22	10.97	204.22	29.5	6.75	5.19	1.82	-1.17	-0.94	-0.23	62.33	43.08	0
2000	156	22	273.01	18.32	275.79	28.36	190.06	31.93	6.98	4.4	2.69	-1.06	-0.47	-0.59	61.01	44.1	0
2000	156	23	19.02	16.5	33.78	15.7	38.58	38.38	5.86	5.72	3.57	-0.55	-0.48	-0.08	59.6	45.53	0
2000	157	0	12.49	6.31	21.91	7.85	19.41	13.5	9.77	8.43	5.8	-0.26	0.29	-0.55	57.77	47.98	0
2000	157	1	11.19	4.34	17.53	10.22	11.41	14.09	9.7	7.39	4.94	-0.92	-0.11	-0.8	57.38	48.64	0
2000	157	2	347.1	12.78	21.89	18.2	69.77	35.06	5.36	3.87	2.71	-0.57	-0.48	-0.1	57.42	48.78	0
2000	157	3	6.11	5.8	23.69	7.07	38.28	31.68	8.05	7.2	4.28	-0.45	-0.33	-0.12	57.49	49.75	0
2000	157	4	359.75	6.94	18.36	8.26	27.44	10.55	8.83	6.91	4.23	-0.62	-0.3	-0.32	56.62	50.65	0
2000	157	5	11.07	4.72	20.66	5.74	25.74	10.23	10.89	8.63	5.55	-0.35	-0.29	-0.07	56.45	50.66	0
2000	157	6	13.94	5.89	31.52	8.66	31.47	14.72	10.66	9.17	5.56	-0.76	-0.36	-0.41	56.43	49.92	0
2000	157	7	13.55	6.43	26.69	9.14	33.41	14.38	10.03	7.65	4.84	-1.27	-0.58	-0.69	56.43	50.12	0
2000	157	8	23.58	10.22	28.41	9.93	25.7	13.15	7.72	6.72	4.9	-1.91	-1	-0.92	57.21	50.25	0
2000	157	9	23.66	17.63	31.09	15.94	22.81	17.38	4.86	4.56	3.43	-2.26	-1.18	-1.08	58	50.99	0
2000	157	10	15.92	14.07	21	16.59	20.62	18.67	6.69	5.73	4.39	-2.29	-1.2	-1.09	58.6	51.65	0
2000	157	11	32.7	15.17	36.98	15.95	30.29	17.07	7.8	6.64	5.05	-2.45	-1.21	-1.24	59.7	51.03	0
2000	157	12	73.1	12.99	82.77	17.24	57.55	30.77	10.81	9.14	4.91	-2.46	-1.24	-1.22	61.44	47.69	0
2000	157	13	80.26	16.04	91.17	18.92	72.03	30.93	9.29	7.57	3.76	-2.45	-1.26	-1.18	62.88	48.46	0
2000	157	14	86.85	11.07	98.41	13.78	74.22	38.87	13.61	10.81	4.36	-2.05	-1.13	-0.91	63.32	48.43	0
2000	157	15	91.23	9.51	100.55	13.6	76.96	31	12.7	10	3.9	-1.55	-0.96	-0.59	62.08	49.17	0
2000	157	16	85.9	7.56	96.09	10.89	73.95	29.12	11	8.2	3.07	-1.62	-0.99	-0.62	61.13	49.96	0
2000	157	17	78.01	6.63	81.64	12.38	54.02	21.03	12.92	8.56	3.84	-1.46	-0.83	-0.64	59.54	49.14	0
2000	157	18	76.55	5.06	78.03	9.94	47.77	20.24	13.28	9.04	3.81	-1.23	-0.64	-0.59	58.92	46.5	0
2000	157	19	76.07	8.13	77.04	13.51	43.43	20.14	12.44	8.25	3.74	-1.37	-0.78	-0.59	58.46	45.23	0
2000	157	20	80.72	10.44	84.14	15.38	51.89	26.88	10.47	7.16	3.11	-1.44	-0.87	-0.57	58.33	43.39	0
2000	157	21	62.53	17.13	55.21	19.48	18.51	17.65	6.8	5.07	3.02	-1.44	-0.99	-0.45	58.39	43.26	0
2000	157	22	51.28	12.68	51	14.81	27.62	19.48	9.25	6.71	3.73	-1.5	-0.96	-0.55	58.5	42.81	0
2000	157	23	37.29	13.63	36.88	12.53	17.73	13.83	7.96	6.29	3.93	-1.75	-1.03	-0.72	58.25	44.74	0
2000	158	0	61.36	11.08	68.63	15.2	48.23	22.51	10.35	7.63	3.62	-1.56	-0.99	-0.57	57.61	45.18	0
2000	158	1	59.03	14.22	61.29	16.6	41.67	26.3	9.96	7.41	3.9	-1.82	-1.07	-0.74	57.11	44.41	0

2000	158	2	36.14	15.28	36.89	16.41	20.77	18.94	8.58	7.45	5.3	-2.07	-1.14	-0.93	56.95	44.19	0
2000	158	3	32.86	11.66	40.67	13.39	26.16	14.4	9.93	8.34	5.8	-2.07	-1.13	-0.93	56.63	44.33	0
2000	158	4	34.49	10.29	44.14	12.74	30.25	16.39	12	10.12	6.72	-2.09	-1.16	-0.93	56.53	44.73	0
2000	158	5	28.82	10.41	39.67	13.61	33.04	18.11	10.9	9.3	5.99	-1.95	-1.12	-0.83	54.76	46.88	0
2000	158	6	9.39	8.69	17.66	12.93	18.28	15.45	12.98	10.54	6.61	-2.08	-1.16	-0.92	53.95	48.32	0
2000	158	7	2.41	10.69	11.84	12.38	17.86	15.59	14.17	11.52	7.18	-2.05	-1.17	-0.87	53.69	49.07	0.13
2000	158	8	351.69	10.52	359.08	14.91	17.91	21.34	21.83	17.71	8.76	-2.64	-1.81	-0.83	54.1	48.81	0.13
2000	158	9	349.29	9.58	357.83	14.15	16.55	20.94	23.79	19.47	9.19	-2.78	-1.92	-0.86	53.5	48.62	0.31
2000	158	10	348.11	8.76	359.38	14.45	16.47	20.6	24.63	21.29	10.91	-2.88	-1.61	-1.28	52.77	48.18	0.26
2000	158	11	351.96	11.98	4.15	15.4	13.4	18.76	26.84	23.12	12.33	-2.78	-1.39	-1.4	52.44	47.68	0.15
2000	158	12	351.77	12.33	3.12	15.58	12.92	20.81	28.29	24.37	12.61	-2.84	-1.08	-1.76	52.58	47.61	0.13
2000	158	13	358.65	11.06	9.79	13.67	16.79	16.76	24.51	20.35	11.69	-2.61	-1.45	-1.16	52.7	48.36	0.12
2000	158	14	340.7	7.6	350.81	13.69	10.25	28.59	27.79	23.36	10.02	-2.15	-1.45	-0.71	53.42	48.13	0.01
2000	158	15	344.61	7.2	355.68	14.31	14.17	23.44	28.95	24.32	11.3	-2.11	-1.28	-0.83	53.56	48.3	0
2000	158	16	346.43	6.86	357.49	18.29	14.5	21.96	30.52	26.41	12.32	-2.15	-1.26	-0.88	53.8	48.12	0
2000	158	17	348.88	7.72	358.17	16.29	12.22	21.78	30.1	26.49	12.3	-2.89	-1.29	-1.6	53.29	48.11	0
2000	158	18	337.17	7.5	347.86	13.03	358.38	32.14	30.63	27.29	10.66	-2.99	-1.87	-1.12	52.95	47.94	0.04
2000	158	19	0.98	10.32	13.41	12.62	17.1	16.37	29.92	24.45	14.52	-2.77	-1.55	-1.22	52.66	47.42	0.13
2000	158	20	347.94	7.06	358.13	13.85	10.2	21.34	27.4	24.53	11.64	-2.89	-1.7	-1.19	51.8	46.55	0.05
2000	158	21	346.26	6.88	356.56	15.81	9.44	22.73	32.04	27.63	12.7	-3.39	-2.04	-1.35	51.54	46.04	0.06
2000	158	22	345.69	6.39	355.49	15.33	7.11	24.13	31.84	27.37	12.6	-3.39	-2.24	-1.15	51.24	45.64	0.1
2000	158	23	348.06	10.33	357.68	15.13	9.2	22.99	28.73	24.68	11.53	-3.23	-2.17	-1.07	50.87	45.05	0.1
2000	159	0	350.46	7.83	359.48	15.66	10.65	22.41	24.34	20.6	10.14	-2.27	-1.48	-0.79	50.88	45.04	0.04
2000	159	1	347.09	8.94	356.54	12.89	9.32	21.57	22.21	19.08	8.96	-1.94	-1.28	-0.66	50.7	44.94	0.06
2000	159	2	343.43	8.38	353.26	13.95	4.71	21.88	18.55	15.98	7.37	-1.87	-1.25	-0.61	50.79	44.98	0
2000	159	3	347.4	7.15	357.53	12.82	8.75	20.09	18.68	16.19	7.8	-2.35	-1.52	-0.83	50.73	45.4	0
2000	159	4	331.44	12.63	342.52	17.82	357.23	33.69	11.47	10.44	4.5	-1.78	-1.18	-0.59	50.56	45	0
2000	159	5	320.32	28.54	344.37	30.92	0.4	39.9	7.02	6.32	3.11	-1.34	-0.96	-0.38	51.33	44.68	0
2000	159	6	334.37	9.59	347.21	12.66	5.42	23.53	14.02	11.58	5.34	-1.67	-1.03	-0.64	52.65	45.18	0
2000	159	7	343.13	7.71	355.57	12.72	0.7	22.89	17.47	15.53	7.48	-2.52	-1.24	-1.28	54.27	45.13	0
2000	159	8	346.76	12.99	359.63	14.94	5.09	19.19	13.94	12.19	7.2	-2.92	-1.33	-1.59	56.72	46.05	0
2000	159	9	341.92	11.95	353.33	16.29	2.37	31.21	15.35	13.7	6.94	-3.17	-1.37	-1.8	59.66	45.31	0
2000	159	10	350.52	9.82	3.1	13.29	5.21	20.32	14.96	13.67	7.83	-3.4	-1.4	-2	62.32	45.1	0
2000	159	11	331.91	17.91	344.33	20.24	2.25	45.03	12.46	10.89	5.82	-3.35	-1.48	-1.87	65.19	45.1	0
2000	159	12	323.13	24.69	331.66	29.39	347.93	54.23	9.7	8.23	4.32	-2.95	-1.38	-1.57	66.78	45.65	0
2000	159	13	318.99	33.29	335.95	33.52	349.11	53.52	5.08	4.85	3.12	-2.59	-1.28	-1.31	67.15	46.15	0
2000	159	14	347.99	13.96	358.09	17.3	0.95	29.12	10.45	9.64	5.68	-2.81	-1.31	-1.49	68.79	46.7	0
2000	159	15	339.8	24.04	343.85	27.25	340.82	48.35	8.32	7.37	4	-2.41	-1.2	-1.2	69.99	45.68	0
2000	159	16	314.54	11.56	327.46	13.49	350.94	51.49	15.14	13.37	4.93	-2.28	-1.21	-1.08	72.11	43.35	0
2000	159	17	314.49	11.72	326.45	13.91	340.61	51.82	15.96	13.79	5.14	-2.32	-1.27	-1.04	72.85	42.13	0
2000	159	18	326.32	16.66	336.08	18.15	355.92	38.85	11.06	10.07	4.39	-1.81	-1.19	-0.62	71.98	41.85	0
2000	159	19	326.79	20.57	346.3	23.63	355.5	36	9.83	8.12	4	-1.14	-0.98	-0.16	70.19	42.21	0
2000	159	20	323.93	12.58	328.38	16.8	340.88	36.01	8.4	6.9	2.16	2.08	-0.63	2.71	65.87	44.58	0
2000	159	21	327.8	9.23	349.84	14.16	20.88	53.75	9.24	6.84	2.1	3.55	0.05	3.5	63.29	45.97	0
2000	159	22	19.52	13.94	15.42	11.5	2.75	20.8	3.53	4.15	2.28	5.54	2.03	3.51	58.92	47.79	0
2000	159	23	281.35	24.96	3.74	11.57	25.17	16.28	2.6	5.03	2.83	7.03	4.49	2.54	56.82	46.89	0
2000	160	0	205.91	38.19	15.57	5.75	11.45	12.72	1.71	4.83	2.53	5.84	3.52	2.32	55.66	47.53	0
2000	160	1	200.45	22.69	19.12	7.13	26.64	8.06	3.24	3.95	2.15	5.26	3.38	1.88	54.69	47.06	0
2000	160	2	138.19	15.19	4.11	9.81	14.32	8.17	1.88	4.07	2.2	4.31	2.46	1.85	53.62	47.45	0

2000	160	3	124.19	21.91	17.4	6.23	33.83	7.61	1.48	4.3	1.63	4.65	2.08	2.56	52.48	46.75	0
2000	160	4	220.79	29.97	4.93	8.15	15.17	10.81	1.25	4.29	2.16	4.24	2.09	2.15	52.13	46.46	0
2000	160	5	276.52	29.39	30.05	7.16	15.85	13.65	1.66	3.95	2.85	4.11	2.71	1.41	52.69	46.58	0
2000	160	6	94.07	13.6	143.32	35.67	51.3	20.82	1.94	1.69	1.52	0.31	0.79	-0.48	55.61	47.76	0
2000	160	7	162.04	17.46	168.73	23.31	180.97	35.04	2.78	2.62	2.31	-1.6	-0.32	-1.28	59.63	48.97	0
2000	160	8	140.23	13.66	158.92	17.17	183.09	14.89	3.64	3.08	3.33	-2.25	-0.92	-1.33	63.3	50.52	0
2000	160	9	145.05	8.19	175.83	16.01	207.93	22.35	6.15	5.08	4.04	-1.83	-0.88	-0.95	66.23	52.86	0
2000	160	10	153.51	10.35	170.67	15.96	190.55	21.39	7.27	6.17	4.7	-2.58	-1.07	-1.51	70.37	53.11	0
2000	160	11	148.98	7.58	157.5	10.03	164.64	26.62	9.79	9.09	5.05	-3.08	-1.2	-1.88	73.87	53.11	0
2000	160	12	143.34	5.78	154.97	10.72	166.06	28.11	13.7	10.62	5.43	-2.89	-1.15	-1.74	74.9	52.28	0
2000	160	13	172.77	14.94	176.85	17.41	176.69	18.11	12.61	9.92	6.09	-2.22	-0.89	-1.33	75.87	53.06	0
2000	160	14	195.01	9.88	203.71	12.05	190.72	16.99	17.03	14.01	8.18	-2.18	-1.07	-1.11	77.11	51.9	0
2000	160	15	205.67	8.05	217.46	11.45	194.06	19.36	20.54	17.36	9.25	-2.53	-1.21	-1.32	78.36	50.97	0
2000	160	16	210.1	6.73	221.03	9.35	196.99	21.04	20.74	18.05	9.22	-2.46	-1.17	-1.3	78.38	51.02	0
2000	160	17	207.34	7.93	218.34	11.53	194.03	18.29	15.63	13.27	7.27	-1.89	-1.06	-0.82	77.62	51.53	0
2000	160	18	200.41	6.32	209.21	7.57	189.3	13.84	13.94	11.49	6.18	-1.08	-0.93	-0.15	76.37	51.98	0
2000	160	19	208.06	6.35	215.61	7.48	189.53	12.16	13.53	10.41	4.31	0.09	-0.75	0.84	74.25	52.32	0
2000	160	20	208.8	6.83	205.92	7.36	180.96	11.23	12.34	10.02	3.97	0.21	-0.6	0.81	72.89	52.48	0
2000	160	21	186.23	5.61	187.74	4.99	172.77	9.1	12.44	10.39	3.04	0.99	-0.79	1.78	71.19	52.84	0
2000	160	22	187.67	5.73	190.44	5.44	177.69	9.08	12.68	10.83	4.7	-0.01	-0.89	0.88	71.42	52.49	0
2000	160	23	203.15	6.31	211.61	7.14	188.18	12.15	14.61	11.1	5.45	-0.39	-0.73	0.34	70.62	52.23	0
2000	161	0	218.09	7.06	209.82	8.3	171.76	10.67	11.77	9.7	4.1	1.25	-0.44	1.69	68.33	52.49	0
2000	161	1	194.73	9.39	185.89	9.1	169.07	14.22	11.31	10.17	3.66	1.51	-0.12	1.63	67.71	52.53	0
2000	161	2	183.24	7.13	194.89	6.52	182.81	9.09	9.31	8.15	3.8	0.71	-0.23	0.94	66.11	52.79	0
2000	161	3	177.03	8.03	190.95	8.23	185.32	18.95	8.71	5.88	1.58	1.11	-0.48	1.59	64.59	52.82	0
2000	161	4	179.38	5.91	194.49	6.88	231.94	10.84	8.58	5.82	1.96	1.74	-0.48	2.22	63.23	52.68	0
2000	161	5	170.03	4.9	200.43	9.68	189.83	14.87	8.59	6.57	2.18	1.83	0.31	1.52	62.58	53.24	0
2000	161	6	181.58	6.92	206.58	11.72	196.85	14.57	6.94	5.04	2.72	-0.71	-0.19	-0.52	64.67	53.97	0
2000	161	7	169.84	12.43	177.37	12.84	177.78	17.77	5.01	4.16	3.02	-2.23	-1.01	-1.22	67.99	55.14	0
2000	161	8	164.69	20.52	172.47	24.6	185.47	18.16	3.92	3.73	3.48	-2.52	-1.1	-1.42	71.23	53	0
2000	161	9	166.32	13.59	185.56	17.72	184.84	23.91	4.89	5.14	4.38	-2.45	-1.07	-1.38	74.5	56.09	0
2000	161	10	156.93	21.89	181.56	28.72	194.12	34.09	4.78	4.43	3.98	-2.7	-1.25	-1.44	78.83	58.69	0
2000	161	11	169.37	20.8	179.61	26.75	192.21	26.84	6.26	5.66	4.28	-2.54	-0.9	-1.64	82.38	59.55	0
2000	161	12	236.72	15.12	245.52	20.38	224.61	38.65	11.26	8.91	4.12	-1.65	-0.86	-0.8	84.41	57.51	0
2000	161	13	232.27	13.86	241.02	16.47	220.11	32.59	13.3	11.23	4.97	-2.27	-1.07	-1.19	86.29	58	0
2000	161	14	264.98	11.93	276.2	14.4	257.21	51.52	18.58	16.94	5.71	-2.32	-1.22	-1.11	86.52	54.1	0
2000	161	15	285.67	14.09	297.84	17.92	283.67	60.56	18.66	16.21	5.5	-2.6	-1.32	-1.28	85.51	54.68	0
2000	161	16	261	15.77	270.31	17.96	250.65	40.82	15.52	12.98	5.07	-2.52	-1.23	-1.29	84.49	55.53	0
2000	161	17	245.85	13.1	253.71	15.96	241.75	31.56	12.85	10.78	4.77	-2.13	-1.11	-1.02	83.92	55.68	0
2000	161	18	222.43	10.85	227.78	11.5	200.05	22.9	10.83	9.15	4.39	-1.52	-0.99	-0.52	83.2	55.22	0
2000	161	19	240	4.67	255.12	6.18	243.72	20.69	10.87	8.03	1.66	0.83	-0.69	1.52	79.74	56.49	0
2000	161	20	256.38	38.46	277.32	37.66	337.44	30.68	7.13	5.52	1.5	2.84	0.15	2.69	76.55	56.89	0
2000	161	21	278.49	35.54	13.32	23.57	13.58	13.6	3.75	3.33	2.57	4.5	0.61	3.88	73.58	57.83	0
2000	161	22	192.44	33.92	30.22	17.89	12.44	31.06	2.33	3.04	2.11	4.52	1.58	2.94	71.1	59.12	0
2000	161	23	196.83	6.43	282.81	19.55	336.61	13.66	5.54	2.46	1.64	6.41	2.27	4.14	69.04	59.79	0
2000	162	0	218.11	10.84	217.63	29.27	228.38	9	5.96	2.29	1.13	6.24	1.34	4.89	67.78	60.02	0
2000	162	1	219.34	14.02	178.58	8.07	193.86	6.14	7.94	6.56	1.92	7.22	0.68	6.54	66.32	59.95	0
2000	162	2	174.42	5.85	198.36	35.08	15.8	30.39	10.09	3.51	1.58	5.98	2.47	3.51	65.95	59.95	0
2000	162	3	194.51	6.96	186.2	10.39	154.35	11.14	7.99	4.16	1.3	4.58	1.14	3.44	65.95	59.67	0

2000	162	4	226.42	7.42	170.02	8.92	155.69	0	5.24	2.77	0.97	4.05	0.32	3.73	65.46	59.29	0
2000	162	5	210.07	9.08	194.92	8.41	155.72	0	6.5	3.29	0.96	3.7	1.35	2.35	65.87	59.4	0
2000	162	6	209.69	9.57	179.8	27.37	247.59	37.04	7.61	3.42	1.62	2.73	2.58	0.14	68.6	59.32	0
2000	162	7	222.65	16.91	173.41	36.87	197.74	66.16	9.36	4.07	2.55	3.66	3.32	0.34	71.96	59.22	0
2000	162	8	221.32	14.36	197.12	18.3	186.94	20.23	8.48	5.01	3.09	0.5	1.33	-0.83	78.16	58.65	0
2000	162	9	250.84	13.76	252.46	19.05	230.78	31.38	11.16	9	4.54	-2.37	-0.94	-1.44	83.28	53.25	0
2000	162	10	261.05	9.37	272.56	14.05	252.35	38.64	13.65	11.98	4.92	-3.07	-1.29	-1.78	86	55.67	0
2000	162	11	265.95	10.09	278.4	15.36	254.69	41.43	15.23	13.71	5.59	-3.15	-1.39	-1.76	87.95	55.14	0
2000	162	12	248.38	10.94	262.77	15.44	246	34.45	14.29	12.38	5.62	-2.98	-1.14	-1.84	89.35	55.26	0
2000	162	13	220.77	9.39	230.82	11.26	209.77	27.85	15.88	14.2	6.99	-2.96	-1.2	-1.75	90.82	56.83	0
2000	162	14	221.32	8.85	230.94	12.32	206.08	28.6	16.82	14.86	7.14	-2.87	-1.15	-1.73	91.46	57.04	0
2000	162	15	216.68	7.55	225.21	9.59	197.93	22.23	16.65	14.59	7.49	-2.71	-1.19	-1.52	91.83	57.95	0
2000	162	16	215.96	7.39	224.94	10.22	201.14	21.54	17.95	15.13	7.28	-2.26	-1.07	-1.19	91.09	58.63	0
2000	162	17	222.06	8.26	230.35	10.75	203.29	24.75	17.35	14.82	6.44	-1.83	-1.01	-0.82	89.85	59.11	0
2000	162	18	215	10.06	218.23	12.24	189.31	18.11	11	8.84	4.08	-1.12	-1	-0.12	88.22	58.95	0
2000	162	19	210.48	8.68	209.15	7.52	175.95	9.21	10.09	9.03	4.49	0.37	-1.05	1.42	84.93	59.66	0
2000	162	20	197.3	7.25	191.31	5.07	171.24	7.3	9.65	9.61	3.18	1.18	-0.94	2.12	82.39	59.51	0
2000	162	21	178.48	9.41	174.36	4.99	173.82	10.63	8.55	8.24	1.78	1.92	-0.6	2.52	80.47	59.46	0
2000	162	22	171.57	7.24	178.51	14.69	214.09	39.78	12.25	9.21	2.49	3.26	0.04	3.22	78.4	59.98	0
2000	162	23	175.41	7.82	173.28	5.23	168.01	17.01	12.32	10.27	2.62	2	-0.59	2.59	78.64	60.24	0
2000	163	0	162.47	10.96	158.48	8.32	166.61	63.48	9.57	8.31	2.06	2.01	-0.21	2.21	77.38	59.97	0
2000	163	1	165.12	8.05	169.49	15.89	266.79	37.86	8.5	4.98	2.26	3.68	0.47	3.21	74.56	60.2	0
2000	163	2	169.82	5.89	173.15	12.02	174.71	22.07	9.53	5.38	1.8	3.78	1.56	2.22	73.02	59.99	0
2000	163	3	146.43	13.96	182.33	61.2	339.43	39.03	5.97	3.05	2.29	1.69	0.01	1.68	72.07	61.3	0
2000	163	4	170.39	17.78	171.19	27.84	205.84	41.23	5.32	4.71	2.18	0.66	-0.16	0.82	72.07	62.27	0
2000	163	5	153.48	4.2	176.14	8.28	203.92	16.53	7.74	6.34	2.15	0.7	0.28	0.42	71.36	62.4	0
2000	163	6	159.64	3.68	172.15	10.26	186.08	12.06	6.96	5.31	2.99	-0.66	0.09	-0.74	73.59	61.19	0
2000	163	7	151.07	11.87	161.21	17.34	179.15	19	5.7	4.7	3.31	-2.35	-1.06	-1.29	77.42	62.13	0
2000	163	8	146.49	13.75	162.19	17.5	179.33	24.47	4.9	4.41	3.86	-2.58	-1.19	-1.39	80.53	62.97	0
2000	163	9	204.61	24.34	203.9	26.2	204.72	29.88	6.99	5.43	4.11	-2.36	-1.03	-1.33	84.67	62.88	0
2000	163	10	262.68	13.19	274.89	16.83	245.2	35.95	17.09	14.79	5.96	-2.92	-1.31	-1.61	88.02	61.54	0
2000	163	11	262.75	12.04	275.73	17.01	249.31	43.52	19.09	16.56	6.49	-2.87	-1.28	-1.59	89.43	62.25	0
2000	163	12	239.73	17.03	249.95	20.75	222.26	37.68	14.85	13.39	5.83	-2.65	-1.11	-1.54	89.48	63.89	0
2000	163	13	244.28	12.03	254.51	15.83	234.8	35.02	15.05	12.56	5.37	-2.59	-1.05	-1.54	91.17	55.4	0
2000	163	14	236.65	7.51	245.54	9.63	228.62	32.28	17.18	15.11	5.9	-2.41	-1.01	-1.4	91.73	59.9	0
2000	163	15	340.68	25.61	5.61	23.36	10.96	30.84	14.74	13.63	8.16	-1.83	-0.66	-1.17	83.46	60.32	0
2000	163	16	233.24	43.65	239.83	39.54	210.27	52.94	11.74	9.43	4.17	-1.17	-0.57	-0.6	80.56	61.17	0
2000	163	17	39.29	22.64	124.2	45.2	166.8	18.04	4.52	3.58	2.41	0.18	0.27	-0.09	79.39	61.84	0
2000	163	18	288.8	29.81	245.55	15.29	239.01	36.27	24.67	23.16	8	0.75	0.19	0.56	75.26	61.92	0.09
2000	163	19	297.33	13.4	317.99	25.48	290.41	73.33	22.26	17.09	5.15	0.28	-0.15	0.44	72.51	62.36	0.07
2000	163	20	278.74	43.22	122.49	19.82	130.9	21.37	6.62	6.16	3.01	0.07	-0.32	0.38	71.06	63.22	0.03
2000	163	21	188.72	10.44	171.87	9.55	173.38	1.91	6.4	4.67	2.12	0.2	0.16	0.04	70.57	63.78	0
2000	163	22	206.7	7.2	189.45	7.62	174.5	8.73	10.47	8.81	3.41	0.8	0.24	0.56	70.39	63.64	0.01
2000	163	23	189.7	12.1	177.24	19.59	161.62	7.96	8.14	6.39	1.96	-0.22	-0.42	0.2	70.87	63.98	0.01
2000	164	0	206.24	33.02	72.36	35.66	164.3	0	2.76	2.22	1.57	-0.23	-0.17	-0.05	70.91	64.01	0
2000	164	1	165.93	13.55	170.87	37.08	172.63	11.12	5.87	3.87	1.99	-0.26	-0.12	-0.15	70.49	63.95	0
2000	164	2	147.34	6.92	160.99	15.46	184.12	8.98	6.97	4.44	1.92	-1.26	-0.72	-0.54	70.52	63.8	0
2000	164	3	159.68	9.41	171.06	13.02	173.65	21.57	6.21	4.84	2.36	-0.72	-0.47	-0.25	70.08	63.54	0
2000	164	4	145.44	12.41	163.08	18.74	173.3	28	8.62	9.06	4.48	-1.08	-0.43	-0.65	69.25	62.79	0.03

2000	164	5	120.37	11.68	129.04	12.11	122.77	47.91	7.39	7.37	3.06	-1.88	-0.92	-0.97	65.92	59.97	0.06
2000	164	6	102.08	7.78	105.65	10.52	78.26	25.82	999.99	7.52	2.98	-2.01	-0.98	-1.02	62.52	56.83	0
2000	164	7	94.06	8.03	101.37	11.98	79.01	45.11	999.99	7.75	3.1	-2.17	-1.11	-1.06	60.67	54.37	0
2000	164	8	98.87	7.87	108.05	10.89	90	33.74	999.99	8.08	3.35	-2.13	-1.07	-1.06	59.46	53.15	0
2000	164	9	97.58	7.97	112.06	11.31	105.36	37.58	999.99	7.81	2.92	-1.98	-0.93	-1.05	58.94	52.97	0.01
2000	164	10	105.96	17.13	114.21	15.28	103.3	31.66	999.99	5.89	2.53	-2.15	-1.03	-1.11	59.33	53.53	0
2000	164	11	230.2	16.02	135.74	13.58	149.52	23.16	999.99	5.2	2.65	-2.26	-1.05	-1.21	59.83	53.86	0
2000	164	12	209.55	17.44	95.54	16.99	76.47	29.96	999.99	5.91	3.14	-2.32	-1.16	-1.15	59.5	53.21	0
2000	164	13	165.72	10.33	68.75	11.81	48.71	21.51	999.99	8.29	4.88	-2.36	-1.18	-1.18	58.45	52.15	0
2000	164	14	126.54	10.25	74.77	13.38	56.72	22.14	999.99	7.41	3.98	-2.25	-1.19	-1.06	58.21	51.42	0
2000	164	15	91.66	13.53	94.97	16.75	100.71	31.97	999.99	5.16	2.4	-2.28	-1.19	-1.08	58.34	51.51	0
2000	164	16	83.93	9.85	82.12	12.9	72.96	23.88	999.99	5.07	2.46	-2.08	-1.14	-0.94	58.35	51.53	0.01
2000	164	17	98.53	9.68	97.34	12.32	84.92	21.51	999.99	5.02	1.87	-1.9	-1.1	-0.8	58.31	51.63	0
2000	164	18	85.97	6.33	78.28	12.4	66.24	23.48	999.99	6.31	2.75	-1.85	-1.09	-0.76	58.19	51.32	0
2000	164	19	95.19	6.95	73.63	13.43	61.99	19.69	999.99	5.38	2.77	-1.96	-1.12	-0.84	58.04	51.22	0
2000	164	20	96.41	9.09	75.13	15.15	58.56	21.48	999.99	5.34	2.57	-1.96	-1.13	-0.84	57.96	50.94	0
2000	164	21	84.48	8.23	72.83	13.75	59.34	22.5	999.99	5.97	2.85	-1.88	-1.13	-0.75	57.86	50.75	0
2000	164	22	82.06	8.96	77.48	12.2	67.94	22.18	999.99	6	2.87	-1.84	-1.07	-0.77	57.25	51.39	0
2000	164	23	70.34	7.52	64.79	11.99	49.73	18.23	999.99	5.08	2.53	-1.84	-0.99	-0.84	57.03	51.51	0
2000	165	0	79.44	5.54	77.67	12.04	63.57	18.57	999.99	4.45	2.18	-1.84	-1.06	-0.79	56.92	51.07	0
2000	165	1	68.93	6.03	69.23	10.54	45.43	18.3	999.99	6.17	3.34	-1.96	-1	-0.96	56.37	50.38	0
2000	165	2	65.41	9.51	61.69	15.33	46.8	21.15	999.99	3.82	2.1	-1.96	-1.1	-0.86	56.17	49.69	0
2000	165	3	44.65	7.85	50.09	11.1	49.48	15.6	999.99	4.96	2.94	-1.9	-1.1	-0.8	56.05	50.29	0
2000	165	4	59.1	7.11	66.86	9.91	54.34	18.77	999.99	5.14	2.58	-1.92	-1.1	-0.82	55.75	49.79	0
2000	165	5	71.76	8.46	83.27	11.96	72.34	19.31	999.99	5.74	2.46	-1.87	-1.1	-0.77	55.42	49.44	0
2000	165	6	53.24	21.86	61.53	35.47	45.14	41.34	999.99	3.55	2.14	-2.19	-1.18	-1.01	55.91	49.24	0
2000	165	7	47.5	16.8	59.69	21.08	48.02	27.36	999.99	4.69	3.31	-2.37	-1.24	-1.14	56.96	48.95	0
2000	165	8	92.84	13.22	102.8	16.91	83.76	37.03	5.94	5.75	2.82	-2.5	-1.23	-1.28	57.51	48.67	0
2000	165	9	114.65	14.87	130.44	16.37	137.98	43.24	6.5	5.99	2.95	-2.81	-1.25	-1.56	58.23	48.54	0
2000	165	10	124.7	11.12	137.31	13.93	150.03	36.2	6.26	5.66	3	-2.63	-1.23	-1.4	58.41	48.96	0
2000	165	11	153.56	8.86	167.35	10.41	179.14	16.53	5.81	6.01	4.07	-2.31	-1.18	-1.13	58.18	49.24	0
2000	165	12	147.69	6.95	159.4	8.2	168.85	19.77	7.32	6.26	3.12	-1.97	-1.07	-0.9	57.04	49.97	0
2000	165	13	130.37	8.82	140.6	13.08	152.96	36.04	7.34	6.37	2.74	-2.1	-1.12	-0.99	56.57	50.49	0
2000	165	14	112.59	10.27	127.25	12.24	127.02	40.24	8.89	7.7	3.1	-2.12	-1.16	-0.96	56.52	49.98	0
2000	165	15	95.79	9.7	109.66	14.3	97.2	46.47	11.85	9.84	3.73	-2.11	-1.16	-0.95	55.47	48.4	0
2000	165	16	105.56	14.2	125.49	22.48	143.72	46.07	8.67	6.17	2.63	-2.15	-1.15	-1	55.07	48.46	0
2000	165	17	118.41	28.55	152.48	36.46	181.78	50.76	5.8	3.85	2.32	-2.04	-1.11	-0.92	55.32	48.59	0
2000	165	18	106.98	15.43	129.32	24.01	143.96	50.48	10.23	6.8	2.53	-1.79	-1.04	-0.75	55.74	47.93	0
2000	165	19	100.28	9.07	115.82	11.75	106.16	32.95	7.7	5.84	2.03	-1.67	-1.04	-0.63	55.69	47.93	0
2000	165	20	111.29	11.26	128.87	16.06	101.6	33.42	6.07	4.81	2.05	-1.61	-1.02	-0.59	55.13	48.12	0.11
2000	165	21	111.47	7.55	129.08	10.8	117.83	34.32	11.25	8.57	2.16	-0.71	-0.6	-0.11	53.14	47.79	0.01
2000	165	22	115.1	5.29	137.93	8.75	117.02	31.54	8.21	7.48	1.99	-0.79	-0.89	0.1	52.99	47.08	0
2000	165	23	74.53	8.69	71.08	17.35	31.18	18.9	6.01	4.43	2.36	-1.55	-0.88	-0.67	52.9	47.56	0
2000	166	0	68.93	12.78	77.35	37.36	15.52	13.13	4.29	2.57	1.38	-1.78	-1	-0.78	52.5	47.8	0
2000	166	1	73.32	8.92	86.15	14.5	60	19.52	6.47	4.76	2.44	-1.79	-1.06	-0.73	52.31	47.22	0
2000	166	2	67.45	13.1	85.84	20.98	88.62	11.28	6.03	4.06	1.7	-1.48	-0.98	-0.5	52.36	45.77	0
2000	166	3	40.62	23.54	44.91	21.53	52.14	28.19	3.9	3.21	1.41	-1.49	-1.11	-0.38	52.74	45.55	0
2000	166	4	48.09	26.34	54.55	33.48	68.15	29.87	3.09	2.3	1.33	-1.83	-1.16	-0.68	52.69	46	0
2000	166	5	32.86	13.15	41.05	12.04	31.5	16.42	5.14	4.37	2.89	-1.95	-1.12	-0.83	53.1	46.82	0

2000	166	6	34.12	20.11	45.07	18.72	22.11	18.56	4.62	4.2	3.38	-2.18	-1.16	-1.02	53.46	47.26	0
2000	166	7	76.77	14.91	99.29	28.2	76.79	46.02	5	3.64	1.79	-2.21	-1.13	-1.08	53.74	47.87	0
2000	166	8	61.94	11.21	78.96	18.24	54.1	23.47	6.01	4.91	2.93	-2.21	-1.14	-1.07	54.48	48	0
2000	166	9	80.55	11.11	112.18	24.87	96.65	51.92	7.06	5.47	2.66	-2.28	-1.14	-1.14	55.36	49.07	0
2000	166	10	65.46	8.27	85.41	15.08	66.27	30.18	5.87	4.72	2.83	-2.29	-1.17	-1.12	56.18	49.44	0
2000	166	11	96.38	12.57	142.71	22.81	161.49	34.81	4.56	3.81	2.42	-2.48	-1.2	-1.28	57.83	48.8	0
2000	166	12	86.31	14.52	125.3	21.34	129.46	46.6	5.63	4.65	2.41	-2.51	-1.24	-1.27	59.04	48.69	0
2000	166	13	108.8	8.7	161.55	14.17	174.14	24.52	6.11	5.78	3.88	-2.58	-1.21	-1.37	60.06	48.88	0
2000	166	14	110.48	8.05	162.43	14.14	174.03	19.89	6.04	5.72	3.97	-2.47	-1.2	-1.26	60.52	49.46	0
2000	166	15	109.13	6.23	162.17	11.43	173.4	18.89	6.89	6.09	4.23	-2.39	-1.21	-1.18	60.71	49.86	0
2000	166	16	104.27	7.95	156.53	13.06	161.78	24.83	6.29	5.48	3.15	-2.25	-1.19	-1.05	60.58	50.28	0
2000	166	17	93.91	6.84	140.37	13.41	151.27	32.72	7.04	6.17	2.59	-2.17	-1.17	-1	60.03	50.08	0
2000	166	18	92.74	4.92	137.63	11.19	147.13	33.72	7.86	6.54	2.42	-1.94	-1.13	-0.81	59.36	50.18	0
2000	166	19	93.61	3.89	139.17	10.17	152.94	36.07	8.77	7.43	2.54	-1.89	-1.12	-0.77	58.5	49.99	0
2000	166	20	89.72	5.4	133.19	10.5	133.11	32.89	9.06	7.48	2.61	-1.91	-1.13	-0.78	57.83	49.88	0
2000	166	21	88.73	5.08	128.71	10.31	113.9	42.48	8.62	6.67	2.14	-1.79	-1.07	-0.72	57.39	49.75	0
2000	166	22	78.89	5.48	117.56	10.54	92.3	24.51	6.64	4.94	1.71	-1.8	-1.07	-0.73	57.14	49.94	0
2000	166	23	77.82	6	117.99	11.67	89.6	31.66	7.14	5.91	2.26	-1.93	-1.14	-0.79	57.03	50.08	0
2000	167	0	79.18	4.84	111.83	5.57	80.03	27.69	7.12	6.43	2.28	-1.76	-0.95	-0.81	56.22	50.36	0
2000	167	1	77.55	4.57	122.49	9.95	111.93	27.33	5.91	4.73	1.77	-1.55	-0.75	-0.8	55.48	51.01	0
2000	167	2	66.9	7.74	111.52	15.06	104.13	26.49	4.62	3.41	1.49	-1.72	-0.91	-0.82	55.28	51.2	0
2000	167	3	127.94	39.49	324.59	51.59	65.88	31.51	1.98	1.33	1.2	-1.58	-0.74	-0.84	55.19	51.4	0
2000	167	4	98.79	54.12	265.82	45.17	24.94	42.58	1.8	1.62	1.49	-1.35	-0.72	-0.63	55.34	51.62	0
2000	167	5	104.42	10.67	132.78	17.26	78.3	15.58	3.08	3.14	1.5	-1.09	-0.47	-0.62	55.58	51.98	0
2000	167	6	85.88	3.22	87.15	16.95	49.42	21.01	3.84	3.32	2.08	-1.17	-0.39	-0.78	56.11	52.59	0
2000	167	7	99.55	22.78	167.95	39.26	234.08	18.68	2.43	1.83	1.37	-1.77	-0.79	-0.98	57.25	53.31	0
2000	167	8	94.38	58.17	49.51	45.84	40.5	36.59	1.89	2.01	1.68	-1.75	-0.8	-0.95	57.71	53.96	0
2000	167	9	98.75	53.02	291.22	31.53	298.44	33.63	2.41	2.51	2.37	-1.79	-0.82	-0.97	58.68	54.71	0
2000	167	10	108.29	44.41	223.57	52.43	234.61	36.44	2.6	2.41	1.86	-2.31	-1.21	-1.1	60.39	55.53	0
2000	167	11	92.23	20.71	147.57	26.6	137.72	49.77	3.43	3.65	3.02	-2.43	-1.17	-1.26	63.1	57.01	0
2000	167	12	102.8	8.51	186.7	17.52	190.24	22.93	5.73	5.88	4.8	-2.85	-1.33	-1.52	65.51	57.86	0
2000	167	13	130.48	23.59	175.42	17.62	178.64	26.03	4.6	5.53	4.37	-2.91	-1.27	-1.64	67.53	59.13	0
2000	167	14	134.65	11.01	175.04	17.18	194.4	23.03	4.99	4.9	3.82	-2.56	-1.27	-1.29	68.44	60.18	0
2000	167	15	134.24	9.63	179.6	17.25	209.42	24.27	4.86	4.11	3.3	-2	-0.98	-1.02	69.61	61.22	0
2000	167	16	128.56	5.63	165.66	11.78	179.44	15.84	7.74	5.5	3.87	-1.93	-0.84	-1.09	70.72	62.08	0
2000	167	17	126.85	4.17	167.46	12.85	220.14	26.33	5.6	3.57	2.35	-0.55	-0.59	0.04	70.44	62.12	0
2000	167	18	128.28	5.25	203.42	31.52	217.32	27.28	4.85	2.88	1.68	0.09	0.02	0.07	70.43	61.89	0
2000	167	19	120.81	6.49	157.27	10.08	179.99	22.67	10.35	5.85	2.46	-0.71	-0.45	-0.26	70.41	62.54	0
2000	167	20	148.92	5.11	162.93	9.91	173.38	20.46	8.24	5.93	2.8	-1.17	-0.63	-0.54	70.15	62.71	0
2000	167	21	143.84	3.74	153.37	8.2	167.34	27.75	10.08	7.02	3.06	-1.25	-0.63	-0.63	69.28	62.3	0
2000	167	22	143.09	3.05	160.15	8.28	172.59	15.35	10.75	7.11	3.94	-1.44	-0.82	-0.62	67.96	61.81	0
2000	167	23	152.04	4.72	163.84	7.57	177.68	13.77	8.38	6.9	4.29	-1.35	-0.67	-0.68	66.96	61.44	0
2000	168	0	164.32	7.41	158.13	6.76	169.86	15.86	6.37	4.88	2.18	-0.88	-0.38	-0.51	66.23	61.36	0
2000	168	1	151.93	12.91	149.24	37.9	261.75	43.48	3.4	2.44	1.6	-1.17	-0.61	-0.57	66.19	61.41	0
2000	168	2	168.22	7.11	183.06	16.02	205.7	17.43	4.9	3.43	1.83	-0.9	-0.53	-0.38	65.82	61.24	0
2000	168	3	162.39	5.66	172.29	5.7	181.34	11.99	5.27	5.17	2.16	-0.4	-0.49	0.09	64.99	60.9	0
2000	168	4	124.68	24.95	68.05	12.68	359.43	33.67	3.64	3.32	2.01	-0.25	-0.23	-0.02	64.96	61.03	0
2000	168	5	25.78	43.9	15.95	8.2	13.72	11.35	3.12	5.12	3.82	-0.8	-0.51	-0.28	65.43	61.42	0
2000	168	6	42.55	24.02	37.33	44.18	350.69	36.78	4.33	4.3	3.26	-1.78	-0.79	-0.99	66.55	62.07	0

2000	168	7	153.29	15.4	180.11	22.6	202.24	27.31	5.21	4.5	3.08	-2.52	-1.37	-1.16	68.76	62.73	0
2000	168	8	152.17	14.93	183.16	25.91	214.67	33.4	5.12	4.19	3.4	-2.2	-1.16	-1.04	72.73	64.7	0
2000	168	9	150.31	9.77	164.21	12.49	175.55	22.97	7.61	7.13	5.25	-3.03	-1.3	-1.72	77.48	64.51	0
2000	168	10	167.26	7.98	174.44	10.85	175.58	18.87	14.09	11.58	7.44	-2.61	-1.14	-1.47	79.4	64.81	0
2000	168	11	188.28	7.07	198.8	9.62	188.93	14.35	19.08	16.3	10.17	-2.98	-1.33	-1.65	80.2	65.08	0
2000	168	12	195.33	9.35	207.73	12.61	193.78	18.15	16.78	14.87	9.79	-3.27	-1.39	-1.88	81.82	65.05	0
2000	168	13	190.37	9.71	201.32	13.39	190.71	15.89	16.8	14.74	9.52	-3.21	-1.43	-1.78	82.85	65.34	0
2000	168	14	199.8	11.18	213.02	13.67	193.27	17.93	14.74	12.85	7.81	-2.95	-1.27	-1.68	84.05	65.63	0
2000	168	15	195.19	8.92	208.83	11.42	193.2	16.79	14.63	12.93	8.47	-3.04	-1.41	-1.63	85.15	66.21	0
2000	168	16	187.25	6.65	196.48	9.6	185.38	13.8	16.29	13.62	8.26	-2.16	-1.08	-1.08	85.06	66.13	0
2000	168	17	193.12	5.51	201.14	7.63	187.01	12.58	14.52	12.19	6.9	-1.31	-0.91	-0.39	84.34	66.36	0
2000	168	18	193.27	6.09	199.92	7.97	183.43	13.17	15.09	12.1	6.33	-0.77	-0.71	-0.06	83.75	66.45	0
2000	168	19	184.09	7.92	192.46	7.63	183.39	11.36	13.23	11.52	5.33	-0.22	-0.93	0.7	82.44	65.95	0
2000	168	20	194.89	4.95	205.36	5.12	193.11	13.94	11.57	9.5	3.59	-0.05	-0.92	0.87	81.35	66.17	0
2000	168	21	191.84	6.3	199.56	6.36	173.84	9.41	13.02	10.64	3.86	0.55	-0.89	1.44	79.55	66.73	0
2000	168	22	190.77	6.97	195.82	6.44	182.16	10.34	13.71	11.6	5.9	-0.51	-0.95	0.44	79.35	65.96	0
2000	168	23	189.13	5.64	193.83	5.1	179.78	9.9	12.57	11.33	5.18	-0.28	-1.02	0.75	78.24	65.79	0
2000	169	0	183.99	4.12	192.65	4.09	177.43	9.52	13	11.39	4.49	0.26	-0.92	1.18	76.7	65.68	0
2000	169	1	182.12	4.58	191.15	4.84	177.13	10.05	12.11	10.03	3.63	0.37	-0.74	1.11	75.66	65.53	0
2000	169	2	185.5	7.28	188.79	5.49	180.98	10.98	12.24	11.05	4.45	0.1	-0.9	1	75.1	65.35	0
2000	169	3	194.34	6.4	196.34	9.44	181.74	17.33	9.23	6.88	2.09	-0.37	-0.86	0.49	74.73	65.32	0
2000	169	4	193.12	5.28	196.75	6.39	181.07	10.36	8.71	6.8	2.29	0.43	-0.09	0.52	73.76	65.29	0
2000	169	5	192.98	5.32	188.34	6.44	176.29	9.25	9.36	7.33	2.59	0.61	-0.46	1.07	73.41	65.11	0
2000	169	6	188.6	7.1	175.7	7	176.08	11.41	8.85	6.81	3.56	-1.26	-0.59	-0.67	75.76	65.8	0
2000	169	7	173.32	9.87	173.12	11.38	174.72	15.67	7.55	5.97	4.23	-2.27	-1.03	-1.25	78.44	66.49	0
2000	169	8	173.91	12.37	168.72	12.42	171.02	20.27	7.18	6.03	4.42	-2.41	-0.91	-1.5	80.79	67.25	0
2000	169	9	212.38	12.47	218.78	16.61	198.49	26.28	10.94	8.96	5.39	-2.96	-1.29	-1.66	84.31	66.95	0
2000	169	10	231.03	11.1	240.4	13.15	220.06	32.04	13.92	12.67	5.74	-2.91	-1.2	-1.7	86.44	64.89	0
2000	169	11	240.08	12.49	250.96	14.98	232.23	34.35	13.23	11.33	5.31	-2.87	-1.21	-1.66	87.05	64.63	0
2000	169	12	235.61	9.34	243.18	12.06	224.32	34.93	16.64	15.09	6.02	-2.76	-1.01	-1.74	87.51	63.8	0
2000	169	13	228.18	11.26	237.89	14.4	216.37	33.34	16.45	14.78	6.3	-2.4	-1.1	-1.3	87.51	64.99	0
2000	169	14	238.96	10.58	247.31	13.6	229.84	30.19	17.78	15.64	6.95	-2.48	-1.06	-1.43	88.28	64.82	0
2000	169	15	253.94	14.28	265.84	16.87	248.39	40.05	16.83	14.68	5.7	-2.35	-1.17	-1.18	88.06	64.05	0
2000	169	16	306.8	6.94	322.74	9.31	345.13	65.35	28.32	25.54	6.94	-1.42	-0.55	-0.86	79.85	64.04	0
2000	169	17	299.82	8.68	313.91	13.36	324.43	77.94	16.82	14.36	4.34	-2.81	-1.28	-1.53	78.03	61.19	0
2000	169	18	296.71	15.91	306.09	32.02	43.35	73.4	12.67	9.13	3.6	-2.1	-1.16	-0.94	76.89	58.92	0
2000	169	19	313.82	16.06	330.51	18.79	3.96	46.19	14.48	11.85	4.86	-1.79	-1.07	-0.72	76.03	58.22	0
2000	169	20	332.26	13.06	347.39	14.37	9.66	23.83	11.16	9.83	4.36	-1.39	-1	-0.38	75.03	58.18	0
2000	169	21	331.28	14.19	352.64	21.99	24.25	24.43	9.57	8.28	3.52	-0.58	-0.7	0.11	73.23	57.32	0
2000	169	22	329.24	11.59	343.97	17.34	7.45	32.83	6.53	5.23	2.25	-0.14	-0.59	0.45	71.79	55.86	0
2000	169	23	316.62	14.84	8.25	21.95	39.26	38.13	4.17	2.93	2.29	0.78	0.08	0.7	69.91	56.69	0
2000	170	0	340.31	18.69	20	20.83	22.72	16.59	5.36	5.49	4.42	0.92	0.05	0.86	68.72	56.91	0
2000	170	1	336.01	12.2	17.59	9.04	27.3	14.05	5.35	6.28	4.41	1.65	1.08	0.57	66.74	56.99	0
2000	170	2	343.16	7.7	20.76	7.37	31.28	11.82	7.02	7.6	6.39	2.52	1.46	1.06	65.03	56.58	0
2000	170	3	342.9	12.26	26.82	9.72	36.01	19.8	3.95	5.91	3.7	1.43	1.45	-0.02	64.18	55.93	0
2000	170	4	353.22	9.69	18.81	6.44	24.97	12.77	5.81	6.1	4.8	1.43	1.25	0.18	63.64	55.96	0
2000	170	5	357.87	6.92	16.4	5.43	22.79	11.88	7.4	5.95	3.85	1.21	0.42	0.78	64	55.85	0
2000	170	6	357.51	7.96	10.06	11.12	21.39	23.39	8.1	5.99	3.3	-0.03	-0.3	0.27	65.14	55.55	0
2000	170	7	12.86	9.44	25.22	13.89	23.39	32.77	8.35	6.23	3.01	-1.07	-0.78	-0.28	65.61	53.82	0

2000	170	8	45.39	7.54	67.53	11.22	82.69	18.71	7.34	5.22	2.3	-0.85	-0.67	-0.17	63.74	55.86	0.01
2000	170	9	53.06	9.89	78.36	11.74	82.78	21.84	4.69	4.68	2.2	-1.14	-0.58	-0.56	63.71	56.33	0
2000	170	10	18.36	14.74	31.9	22.24	42.21	43.99	5	4.33	2.82	-1.19	-0.76	-0.43	62.52	56.14	0.17
2000	170	11	9.59	10.59	14.39	11.26	14.42	16.13	6.25	5.69	4.39	-1.82	-0.89	-0.93	62.38	56.59	0.01
2000	170	12	15.91	14.05	18.63	14.2	19.9	21	5.61	4.97	3.93	-2.21	-1.06	-1.15	63.82	57.14	0
2000	170	13	11.06	17.74	3.93	15.73	359.62	20.27	5.28	5.14	3.78	-2.47	-1.12	-1.35	65.48	58.19	0
2000	170	14	60.12	16.92	51.01	18.55	29.11	36.14	4.14	3.71	2.59	-2.25	-1.13	-1.12	67.1	57.86	0
2000	170	15	38.76	16.85	48.9	15.75	46.26	21.2	4.52	4.26	2.79	-1.92	-1.13	-0.8	67.34	56.89	0
2000	170	16	3.9	10.65	7.1	11.03	4.62	15.39	7.11	6.89	4.2	-1.81	-0.93	-0.89	67.02	58.06	0
2000	170	17	15.41	10.66	9.12	10.43	358.06	17	6.04	5.64	3.57	-1.56	-0.84	-0.71	66.63	58	0
2000	170	18	14.54	9.79	21.96	11.85	19.16	15.56	5.38	4.99	3.61	-1.91	-1	-0.91	66.82	58.12	0
2000	170	19	13.08	10.1	21.58	11.71	16.27	16.92	6.7	5.96	3.98	-1.71	-1.01	-0.7	66.17	58.15	0
2000	170	20	9.14	7.88	20.54	11.29	23.19	14.83	8.26	7.06	4.97	-1.67	-0.95	-0.72	65.74	57.83	0
2000	170	21	6.67	10.93	15.18	8.19	16.41	13.57	6.55	6.15	3.86	-1.6	-0.93	-0.67	65.37	57.88	0
2000	170	22	4.97	7.73	14.95	9.05	9.3	14.83	7.21	5.79	3.83	-1.23	-0.76	-0.47	64.66	57.75	0
2000	170	23	1.85	9.05	21.45	11.54	26.3	17.83	5.46	5.49	3.85	-1.51	-0.75	-0.76	64.04	57.55	0
2000	171	0	353.09	8.96	0.34	11.22	9.6	15.95	7.44	6.74	4.12	-1.65	-0.77	-0.88	63.73	57.68	0
2000	171	1	355.73	9.88	5.62	9.5	2.75	14.41	7.95	7.53	4.73	-2.01	-1.1	-0.91	63.3	57	0
2000	171	2	357.53	8.83	10.85	10.4	14.66	15.33	7.98	7.55	4.95	-1.99	-1.06	-0.93	62.88	56.35	0
2000	171	3	348.53	8.48	2.82	10.15	5.47	16.86	10.55	10.12	6.11	-2.17	-1.18	-0.99	62.34	56.01	0
2000	171	4	352.34	9.68	3.84	10.6	10.14	17.94	11.48	10.11	5.6	-2.36	-1.28	-1.08	61.72	55.39	0
2000	171	5	345.79	6.16	356.33	13.19	11.84	30.71	13.37	11.73	5.39	-2.32	-1.26	-1.06	61.45	54.89	0
2000	171	6	352.02	9.3	0.51	11.59	8.91	17.79	13.47	12.4	6.74	-2.26	-1.2	-1.06	61.98	53.86	0
2000	171	7	351.54	9.09	359.39	10.59	6.04	18.49	12.22	12.16	6.81	-2.38	-1.23	-1.15	62.05	52.79	0
2000	171	8	354.81	8.53	2.05	11.08	6.41	16.66	10.84	10.17	6.21	-2.51	-1.26	-1.26	62.71	52.66	0
2000	171	9	349.15	7.78	357.82	9.82	4.36	19.95	12.22	11.84	6.27	-2.75	-1.25	-1.5	64.35	53.24	0
2000	171	10	347.09	6.11	356.52	9.94	2.78	18.87	12.76	12.01	6.31	-2.92	-1.28	-1.64	65.71	53.69	0
2000	171	11	346.62	6.81	357.38	10.61	3.96	22.15	14.56	13.75	6.96	-3.47	-1.37	-2.1	67.17	53.79	0
2000	171	12	351.16	9.16	358.57	12.8	3.89	19.35	10.54	9.59	5.77	-3.32	-1.4	-1.92	67.72	53.57	0
2000	171	13	350.41	9.86	357.88	11.6	359.5	20.72	8.88	8.55	5.05	-2.71	-1.25	-1.46	68.16	53.31	0
2000	171	14	356.82	10.45	5.28	12.98	1.45	22.65	8.03	7.42	4.95	-2.82	-1.25	-1.57	69.58	52.75	0
2000	171	15	353.04	8.14	3.2	11.08	0.49	19.8	8.46	7.92	4.77	-2.61	-1.24	-1.37	70.36	52.56	0
2000	171	16	14.27	19.84	20.83	21.94	10.37	23.52	5.75	5.92	4.22	-2.43	-1.25	-1.18	70.8	52.67	0
2000	171	17	336.34	45.47	331.97	35.64	336.34	34.89	2.63	2.96	2.32	-2.12	-1.07	-1.04	70.96	53.03	0
2000	171	18	197.25	7.92	212.83	10.21	201.61	9.19	3.35	3.44	2.2	-1.72	-0.98	-0.75	70.69	54.02	0
2000	171	19	214.93	5.09	217.83	6.74	243.56	15.59	3.28	2.83	1.36	0.2	-0.83	1.03	68.16	56.12	0
2000	171	20	222.31	12.95	222.72	51.02	274.62	39.11	2.84	1.86	1.32	1.09	-0.02	1.11	66.13	56	0
2000	171	21	245.69	41.59	30.86	11.47	21.1	25.19	1.93	2.63	2.23	2.03	0.64	1.39	63.88	56.39	0
2000	171	22	3.15	22.03	20.17	7.13	18.06	13.24	2.79	5.69	3.32	2.58	1.38	1.2	62.32	55.89	0
2000	171	23	307.78	28.85	21.26	10.38	23.36	25.59	2.77	5.01	2.04	3.63	2.87	0.77	60.81	54.85	0
2000	172	0	277.56	31.53	19.82	8.69	29.5	14.1	2.92	4.18	3.09	3.48	2.22	1.26	60.1	54.45	0
2000	172	1	248.91	44.25	32.23	17.21	40.05	17.31	2.74	4.36	2.6	3.75	1.77	1.97	59.41	53.53	0
2000	172	2	217.17	54.79	25.45	17.01	25.09	20.76	1.78	4.42	2.73	3.91	1.87	2.03	58.58	52.94	0
2000	172	3	339.97	30.99	16.77	9.06	30.99	10.88	3.52	5.1	4.23	4.3	1.17	3.13	57.82	52.51	0
2000	172	4	281.48	39.92	28.93	46.57	71.04	28.06	2.68	4.42	2.14	3.62	1.79	1.83	57.74	51.67	0
2000	172	5	257.83	45.19	220.33	46.18	137.54	11.89	2.69	2.6	1.38	3.21	2.85	0.36	58.54	52.36	0
2000	172	6	271.38	34.67	196.44	39.68	180.56	35.94	4.58	2.41	1.78	1.5	1.58	-0.08	61.48	53.94	0
2000	172	7	317.71	43.84	137.28	41.54	149.25	51.64	4.66	2.53	1.96	-1.49	-0.52	-0.97	66.35	53.94	0
2000	172	8	356.92	22.37	26.64	18.71	26.95	28.09	6.7	6.18	4.21	-2.45	-1.07	-1.39	69.36	53.55	0

2000	172	9	343.49	12.61	358.83	13.44	6.66	21.33	8.13	6.85	4.69	-2.76	-1.21	-1.55	72.5	53.88	0
2000	172	10	354.32	16.68	4.41	14.57	359.22	21.46	9.04	8.39	5.42	-3.23	-1.41	-1.83	74.98	53.56	0
2000	172	11	3.28	10.82	11.81	14.69	5.85	19.76	11.17	9.54	6.64	-3.47	-1.68	-1.79	75.82	51.75	0
2000	172	12	9.13	11.65	17.22	16.83	16.44	21.34	9.78	8.84	7.08	-3.49	-1.65	-1.84	76.9	50.5	0
2000	172	13	13.18	14.69	22.81	18.04	18.47	20.84	9.11	8.46	6.48	-3.12	-1.52	-1.6	77.74	50.42	0
2000	172	14	17.41	11.88	31.84	16.07	26.56	20.56	9.37	8.57	7.02	-3.21	-1.59	-1.62	78.76	50.93	0
2000	172	15	14.57	13.14	29.36	18.54	19.27	19.88	8.71	8.17	6.66	-3.08	-1.57	-1.52	79.38	51.01	0
2000	172	16	21.89	20.09	42.48	22.35	35.77	24.91	6.11	5.8	4.56	-2.73	-1.34	-1.39	79.77	50.63	0
2000	172	17	2.87	48.04	325.61	44.1	306.52	47.45	2.49	2.63	2.05	-2.31	-1.19	-1.11	79.46	51.22	0
2000	172	18	156.73	8.71	179.5	12.26	187.48	7.02	3.22	2.79	1.94	-1.34	-0.93	-0.41	78.45	53	0
2000	172	19	133.11	8.49	141.26	17.57	78.74	40.4	5.98	3.66	1.6	1.98	-0.08	2.06	73.94	55.29	0
2000	172	20	153.09	6.53	175.2	10.39	338.73	43.4	6.39	4.04	1.11	2.32	0.18	2.14	70.88	56.32	0
2000	172	21	157.66	5.37	180.98	12.25	340.58	11.06	5.6	3.37	1.38	3.32	-0.04	3.35	67.81	57.28	0
2000	172	22	160.86	10.42	222.38	29.85	3.29	20.24	3.18	2.06	1.8	4.12	-0.4	4.51	65.78	58.21	0
2000	172	23	149.51	9.11	318.45	63.02	4.24	15.22	3.25	1.4	2.36	4.27	-0.01	4.28	64.44	57.15	0
2000	173	0	143.52	53.41	353.66	35.94	2.64	19.62	1.83	2.05	2.29	4	0.04	3.95	63.51	56.45	0
2000	173	1	147.77	12.43	65.39	59.05	5.92	18.2	2.16	2.01	2.2	3.56	0.67	2.89	62.64	56.16	0
2000	173	2	145.13	14.36	21.64	23.22	21.02	16.91	2.15	2.55	2.39	2.61	0.17	2.44	62	55.35	0
2000	173	3	169.15	23.54	357.17	28.71	9.96	28.87	1.76	2.5	1.86	2.2	0.15	2.04	61.29	55.37	0
2000	173	4	183.74	29.78	247.27	57.82	29.77	28.29	2	1.9	1.63	2.55	0.58	1.97	60.3	55.03	0
2000	173	5	205.47	24.18	355.55	65.13	17.87	43.09	2.01	1.16	1.68	1.64	0.82	0.83	61.47	55.62	0
2000	173	6	155.72	12.75	126.79	48.74	339.79	36.53	2.61	1.56	1.2	-0.46	0.15	-0.61	63.84	56.73	0
2000	173	7	149.29	12.93	170.62	27.82	186	36.26	4.96	3.97	3.1	-2.41	-1.1	-1.31	67.87	57.95	0
2000	173	8	157.66	8.13	171.94	11.02	182.58	17.88	8.91	8.65	6.37	-2.73	-1.24	-1.49	72.74	57.52	0
2000	173	9	159.19	8.26	168.42	10.97	174.14	18.87	13.43	11.91	7.4	-3.01	-1.34	-1.67	77.08	56.05	0
2000	173	10	169.06	10.17	180.5	12.35	181.07	17.73	19.4	16.43	9.8	-2.69	-1.22	-1.47	78.49	54.42	0
2000	173	11	158.49	7.37	168.36	10.36	172.63	20.79	16.23	14.68	8.63	-2.91	-1.32	-1.59	79.36	54.2	0
2000	173	12	156.24	6.94	165.97	9.55	171.57	20.95	16.69	14.83	8.7	-2.61	-1.08	-1.53	79.97	54.45	0
2000	173	13	151.23	6.65	160.79	9.69	167.7	24.82	20.52	17.01	9.41	-3.04	-1.18	-1.86	80.09	57.44	0
2000	173	14	147.01	4.69	156.89	8.84	163.19	27.14	22.61	17.39	8.62	-2.49	-0.89	-1.6	79.58	58.41	0
2000	173	15	148.38	3.59	159.53	8.11	167.42	23.76	23.42	17.5	8.78	-1.58	-0.69	-0.89	77.73	59.19	0
2000	173	16	157.76	6.63	163.07	8.23	167.16	24.09	17.55	14.41	7.13	-0.68	-0.12	-0.55	77.19	61.16	0
2000	173	17	171.84	8.95	181.44	12.51	183.03	16.08	17.15	13.17	7.43	-1.16	-0.64	-0.52	77.72	61.84	0
2000	173	18	158.51	4.84	163.95	7.89	169.38	21.68	15.16	13.53	6.84	-1.05	-0.42	-0.63	76.5	62.41	0
2000	173	19	156.38	5.23	160.44	7.67	165.77	26.28	16.27	13.95	6.58	-0.71	-0.1	-0.61	74.65	62.53	0
2000	173	20	159.14	6.11	163.37	8.2	166.4	25.35	14.56	11.77	5.58	-0.95	-0.39	-0.56	74.31	62.84	0
2000	173	21	177.5	6.38	181.25	7.31	175.68	14.8	15.24	12.24	5.49	0.13	-0.38	0.51	72.09	64.55	0.03
2000	173	22	193.42	6.64	195.47	7.18	182.05	12.25	15.94	12.53	6.08	-0.64	-0.7	0.06	71.85	65.44	0.13
2000	173	23	204.72	6.97	204.15	8.08	182.01	12.29	11.15	8.7	3.82	-0.92	-0.75	-0.17	70.81	65.1	0.05
2000	174	0	208.46	13.36	196.84	18.18	170.34	21.22	10.51	7.07	2.87	-0.79	-0.67	-0.12	70.22	64.56	0
2000	174	1	183.37	9.95	178.49	8.85	170.88	13.6	9.79	8.58	3.45	-0.74	-0.84	0.1	69.35	63.27	0
2000	174	2	219.54	12.11	207.29	16.8	179.21	12.23	9.03	6.87	3.08	-0.26	-0.68	0.42	69.18	62.71	0
2000	174	3	239.62	13.72	239.46	18.77	204.38	27.83	7.35	5.22	1.9	-0.42	-0.8	0.38	69.62	62.13	0
2000	174	4	236.67	16.55	215.86	24.77	136.27	53.77	5.63	3.89	1.81	0.71	-0.67	1.38	68.76	62.36	0
2000	174	5	167.07	8.88	178	13.86	195.95	11.28	6.99	4.5	1.43	-0.32	-0.26	-0.07	68.78	62.89	0
2000	174	6	178.94	7.23	175.65	7.27	179.56	17.77	6.3	5.56	2.23	-1.22	-0.64	-0.58	69.8	63.31	0
2000	174	7	162.3	8.72	162.11	13.48	177.11	16.47	5.02	4.01	2.49	-1.88	-0.85	-1.03	70.65	64.41	0
2000	174	8	157.27	10.92	154.81	13.88	165.36	25.36	5.07	4.87	3.05	-2.03	-0.84	-1.19	71.42	64.55	0
2000	174	9	155.73	10.58	160.87	12.7	168.9	23.65	5.74	5.56	4.25	-2.81	-1.13	-1.68	74.14	65.27	0

2000	174	10	161.58	11.47	163.93	13.67	169.82	27.18	7.52	6.78	4.65	-2.87	-1.05	-1.82	77.34	66	0
2000	174	11	186.41	21.67	183.59	27.11	176.06	41.02	7.53	6.19	4.48	-2.66	-1.14	-1.52	79.82	66.29	0
2000	174	12	199.84	29.36	204.68	31.42	192.78	32.59	12.87	10.9	6.45	-2.4	-0.92	-1.48	80.9	64.57	0
2000	174	13	207.93	13.77	218.62	15.57	198.19	25.86	17.41	15.26	8.62	-2.74	-1.21	-1.53	83.18	61.58	0
2000	174	14	205.45	9.5	218.01	12.24	197.49	19.87	17.52	15.11	8.94	-2.71	-1.23	-1.48	83.93	61.73	0
2000	174	15	198.36	8.27	208.98	10.96	190.91	16.4	17.33	14.81	8.9	-2.11	-1.15	-0.95	83.35	62.73	0
2000	174	16	215.45	8.73	224.64	11.73	202.45	25.22	16.21	13.82	6.59	-1.86	-1.04	-0.81	83.16	61.47	0
2000	174	17	219.56	7.4	228	9.69	201.76	25.93	16.11	13.77	6.3	-1.84	-1.04	-0.8	82.53	59.85	0
2000	174	18	225.89	10.66	232.24	12.99	204.15	25.11	13.72	11.08	5.24	-1.45	-0.93	-0.52	82.15	59.87	0
2000	174	19	226.85	8.46	230.14	9.68	197.42	20.78	12.4	10.2	4.53	-0.68	-0.88	0.2	80.44	55.66	0
2000	174	20	223.11	4.29	225.54	5.11	203.21	14.59	10.17	7.52	2.36	0.05	-0.71	0.76	77.68	55.8	0
2000	174	21	233.86	6.24	234.51	5.26	225.08	18.22	10.11	7.75	2.43	1.54	-0.06	1.6	75.11	57.3	0
2000	174	22	233.28	7.08	233.01	5.26	195.68	15.6	10.56	9.26	2.4	3.16	0.61	2.55	73.03	55.89	0
2000	174	23	257.76	7.59	267.14	9.16	218.74	22.26	14.35	10.68	3.05	1.87	-0.47	2.34	73.46	54.46	0
2000	175	0	257.6	10.44	262.26	12.88	231.61	30.11	12.21	9.2	3.48	-0.45	-0.84	0.39	74.5	52.82	0
2000	175	1	277.05	13.14	277.67	17.5	224.1	28.4	13.47	9.22	3.42	-0.24	-0.65	0.4	73.36	52.86	0
2000	175	2	258.86	17.94	255.89	20.82	205.16	34.9	9.57	6.78	3.05	-0.24	-0.85	0.61	72.3	53.34	0
2000	175	3	276.95	9.34	277.67	10.12	230.77	17.62	9.13	7.27	1.89	0.22	-0.91	1.13	70.48	51.57	0
2000	175	4	277.74	11.22	266.88	9.27	219.08	29.31	7.64	6.26	2.83	1.48	-0.71	2.2	68.06	51.89	0
2000	175	5	259.22	4.79	260.36	5.81	217.98	21.29	11.43	9.36	3.15	0.74	-0.53	1.27	67.91	53.68	0
2000	175	6	256.06	9.08	260.7	11.11	242.74	33.25	12.5	10.78	4.15	-1.71	-0.96	-0.76	69.91	54.12	0
2000	175	7	281.18	9.07	292.56	12.58	267.49	55.57	15.88	14.92	5.28	-2.89	-1.44	-1.44	71.46	53.11	0
2000	175	8	298.95	12.91	312.73	17.68	317.73	78.3	13.36	11.92	4.22	-3.55	-1.49	-2.06	72.57	54.12	0
2000	175	9	311.61	14.36	330.3	17.01	352.65	46.53	9.74	9.29	4.64	-3.34	-1.4	-1.94	73.14	54.22	0
2000	175	10	298.84	24.26	310.92	29.53	334.07	72.75	8.31	7.22	3.72	-3.17	-1.46	-1.71	74.4	54.27	0
2000	175	11	321.55	29.01	348.1	32.18	343.77	46.88	6.66	5.98	3.73	-2.95	-1.37	-1.58	75.84	53.8	0
2000	175	12	306.29	14.42	321.89	17.13	335.87	62.32	10.63	9.95	4.49	-3.76	-1.56	-2.2	78.08	54.18	0
2000	175	13	304.06	16.74	315.89	18.01	330.28	61.67	12.82	11.75	4.98	-3.82	-1.51	-2.31	79.1	53.93	0
2000	175	14	348.16	13.52	2.37	15.48	5.76	21.58	13.5	12.09	7.65	-3.38	-1.47	-1.91	78.56	53.83	0
2000	175	15	353.9	14.99	6.27	14.93	6.53	19.65	10.56	9.78	6.67	-3.16	-1.46	-1.69	78.78	53.74	0
2000	175	16	331.93	23.6	346.14	25.88	2.28	34.66	6.32	6.13	4.18	-2.74	-1.34	-1.4	79.11	52.73	0
2000	175	17	284	16.49	295.84	20.6	275.37	52.47	8.91	7.63	3.1	-2.78	-1.33	-1.45	79.56	51.86	0
2000	175	18	278.19	7.35	288.29	9.75	236.29	36.18	8.69	7.41	2.47	-1.81	-1.17	-0.64	78.07	53.29	0
2000	175	19	270.43	2.17	283.71	2.34	261.28	31.68	10.53	8.62	1.95	1.65	-0.46	2.11	73.91	55.2	0
2000	175	20	285.82	7.41	308.6	36.3	9.61	54.89	9.86	5.91	1.85	3.03	1.11	1.93	71.32	54.85	0
2000	175	21	292.1	14.28	14.9	34.48	42.25	14.4	6.53	2.71	2.64	3.33	1.11	2.22	68.99	55.61	0
2000	175	22	315.33	5.09	10.2	9.73	19.39	16.27	6.75	4.78	2.27	5.71	3.08	2.64	66.79	56.31	0
2000	175	23	317.86	5.93	10.99	8.34	17.8	11.25	6.08	4.92	4.05	6.11	3.57	2.55	65.25	55.16	0
2000	176	0	234.68	29.72	28.87	14.47	10.45	27.2	2.39	2.6	1.87	5.44	4.11	1.33	63.36	55.13	0
2000	176	1	18.64	26.92	25.21	7.21	27.45	11.4	5.32	6.84	4.41	4.55	2.6	1.95	62.24	54.76	0
2000	176	2	350.31	7.21	17.3	4.74	27.17	10.09	6.86	7.73	6.08	6.12	5.27	0.84	61.91	54.19	0
2000	176	3	356.37	8.81	17.69	4.91	26.63	16.46	6.78	7.62	4.58	6.33	5.55	0.78	61.14	53.47	0
2000	176	4	349.57	13.32	17.3	6.08	27.43	13.3	4.89	5.97	3.67	6.39	6.02	0.38	60.6	53.87	0
2000	176	5	323.72	35.26	21.29	8	32.41	12.03	3.56	6.2	4.35	4.97	5.31	-0.34	60.8	53.91	0
2000	176	6	309.82	28.97	51.87	23.05	63.91	23.67	3.15	5.83	3.66	3.62	4.45	-0.83	63.09	54.41	0
2000	176	7	176.96	54.61	34.13	31.86	31.53	30.79	1.87	2.17	2.31	-1.02	-0.07	-0.95	66.66	55.9	0
2000	176	8	161.93	41.5	295.93	47.12	317.28	33.25	1.92	2.2	2.43	-1.71	-0.53	-1.18	70.55	55.59	0
2000	176	9	157.45	14.46	174.15	21.34	187.25	28.86	4.72	4.54	3.48	-2.71	-1.11	-1.6	74.81	54.91	0
2000	176	10	140.8	13.63	157.99	17.97	174.45	27.19	5.41	5.31	3.85	-3.33	-1.38	-1.95	77.53	55.61	0

2000	176	11	143.34	11.32	157.53	14.95	173.71	19.87	6.74	6.31	4.81	-3.35	-1.34	-2.01	79.67	57.21	0
2000	176	12	137.97	8.56	148.95	11.69	157.51	33.19	8.66	8.67	4.37	-3.17	-1.23	-1.94	81.32	56.57	0
2000	176	13	141.48	9.93	154.4	13.99	164.8	29.47	8.73	7.87	4.51	-2.92	-1.26	-1.67	82.28	56.41	0
2000	176	14	142.69	8.06	153.42	13.2	165.88	33.79	10.28	9.1	4.37	-2.67	-1.11	-1.57	82.65	57.68	0
2000	176	15	141.79	5.54	151.62	10.82	160.7	30.87	14.16	10.92	4.74	-2.27	-0.98	-1.29	81.52	58.74	0
2000	176	16	154.49	3.73	160.11	7.6	165.84	21.88	12.82	11.13	5.49	-1.56	-0.53	-1.02	81.38	59.15	0
2000	176	17	149.24	3.35	158.66	8.11	165.35	26.19	15.97	11.94	5.27	-1.29	-0.55	-0.74	80.12	58.64	0
2000	176	18	147.95	3.55	159.78	7.91	168.44	24.63	15.67	11.17	5.43	-1.2	-0.62	-0.57	78.42	57.78	0
2000	176	19	150.49	3.75	162.96	6.12	175.36	15.94	11.55	9.14	5.32	-0.77	-0.7	-0.06	76.01	57.82	0
2000	176	20	155.92	3.44	162.36	4.49	175.49	12.81	9.36	8.57	5.03	-0.33	-0.6	0.27	74.51	57.12	0
2000	176	21	156.87	4.29	156.97	4.86	173.56	14.48	7.51	7.93	3.21	0	-0.41	0.41	73.23	56.96	0
2000	176	22	156.48	5.02	158.8	6.08	180.94	12.29	7.63	6.51	2.85	0.18	-0.3	0.47	72.13	57.42	0
2000	176	23	155.01	3.63	171.1	6.04	190.59	8.35	6.3	5.17	1.89	0.66	-0.2	0.86	70.7	60.09	0
2000	177	0	169.63	6.43	209.13	9.27	198.16	0.71	5.23	3.71	1.06	0.85	-0.69	1.54	69.91	60.54	0
2000	177	1	156.51	3.59	199.64	13.06	307.16	32.63	5.56	4.15	1.23	2.48	-0.19	2.66	68.04	60.66	0
2000	177	2	148.75	2.54	192.77	12.01	5.95	31.53	6.92	4.23	1.07	2.85	0.28	2.57	66.98	60.63	0
2000	177	3	155.35	8.65	206.88	20.35	29.32	20.21	5.63	3.48	1.12	1.54	-0.17	1.71	66.68	55.71	0
2000	177	4	147.58	7.25	187.32	29.3	13.87	13.35	5.29	2.08	1.2	0.61	-0.47	1.08	66.87	56.2	0
2000	177	5	148.31	4.76	178.66	13.94	352.87	15.15	5.58	2.34	1.06	-0.14	-0.41	0.26	67.62	59.08	0
2000	177	6	143.89	3.82	171.59	11.11	209.82	14.64	6.65	3.34	1.69	-1.31	-0.5	-0.81	69.26	59.48	0
2000	177	7	154.49	8.47	169.8	13.45	183.63	15.9	6.67	5.5	4.09	-2.16	-1.03	-1.13	71.38	60.42	0
2000	177	8	163.62	8.93	178.32	10.85	183.01	15.85	6.72	6.55	4.82	-2.53	-1.2	-1.33	74.04	63.07	0
2000	177	9	152.85	9.16	161.85	13.26	173.73	24.75	8.95	7.61	4.83	-3.21	-1.32	-1.89	78.75	65.89	0
2000	177	10	154	7.95	159.84	11.29	166.87	25.23	12.21	10.37	5.73	-3.2	-1.21	-1.99	82.23	66.74	0
2000	177	11	157.48	6.91	162.08	10.16	167.64	22.8	13.81	12.06	6.69	-2.73	-0.87	-1.85	84.41	67.38	0
2000	177	12	156.41	6.8	162.84	9.22	169.05	26	16.25	13.96	7.32	-2.35	-0.67	-1.68	85.83	67.16	0
2000	177	13	149.98	4.82	159.86	9.06	166.54	25.02	20.26	15.71	7.87	-1.74	-0.63	-1.1	84.37	67.07	0
2000	177	14	149.69	3.9	158.57	8.14	165.41	27.05	18.96	14.47	6.91	-1.64	-0.54	-1.1	85.14	66.6	0
2000	177	15	146.64	3.92	157.51	8.37	164.52	27.39	21.76	15.78	7.39	-1.93	-0.75	-1.18	84.81	66.26	0
2000	177	16	148.67	3.68	160.03	8.15	166.76	24.59	21.06	15.26	7.84	-1.75	-0.69	-1.07	84.32	65.64	0
2000	177	17	150.4	4.22	158.51	8.64	168.4	25.78	18.4	14.01	6.8	-1.16	-0.31	-0.85	83.42	66.1	0
2000	177	18	157.67	3.61	160.66	7.35	167.66	24.3	14.28	12.81	6.22	0.34	0.59	-0.26	81.46	66.04	0
2000	177	19	162.08	4.14	162.56	7.14	167.93	20.67	13.46	10.18	4.55	0.79	0.8	-0.01	79.86	66.15	0
2000	177	20	184.48	27.11	185.39	38.68	211.22	62.31	9.62	7.66	3.09	-0.22	-0.02	-0.19	79.56	64.65	0
2000	177	21	166.88	18.61	166.36	41.17	31.46	34.85	3.97	2.65	1.87	0.59	-0.32	0.92	77.08	64.72	0
2000	177	22	161.3	10.55	179.29	45.17	19.28	17.28	6.15	3.14	2.21	2.25	0.37	1.88	74.74	64.74	0
2000	177	23	128.09	24.24	57.51	53.44	29.16	30.61	3.7	3.38	3.24	2.05	0.1	1.95	73.74	64.95	0
2000	178	0	41.93	32.95	30.81	6.96	32.7	12.16	3.1	6.55	4.71	2.5	0.39	2.11	73.06	63.91	0
2000	178	1	67.37	12.39	27.26	8.35	24.87	10.89	5.63	7.05	5.17	2.48	1.81	0.66	72.41	63.81	0
2000	178	2	160.32	22.26	108.21	20.63	123.27	31.81	2.81	2.66	2.1	1.19	-0.21	1.4	71.71	63.87	0
2000	178	3	240.52	32.36	52.2	25.3	29.85	14.07	2.37	2.86	2.71	0.5	0.13	0.37	71.87	64.02	0
2000	178	4	267.11	53.12	42.3	16.08	33.82	14.17	1.68	3.78	3.07	0.96	-0.09	1.05	71.38	64.23	0
2000	178	5	46.09	24.19	39.1	23.53	34.47	25.62	4.57	6.52	4.1	0.78	1.01	-0.23	70.9	64.23	0.05
2000	178	6	173.68	8.39	207.55	18.32	208.06	14.55	5.5	4.6	2.63	-0.01	0.54	-0.55	71.65	64.07	0
2000	178	7	191.02	35.62	181.24	45.65	167.1	46.2	3.58	1.92	1.32	-1.37	-0.49	-0.88	73.98	65.47	0
2000	178	8	154.38	42.88	190.04	57.77	211.29	44.75	3.11	3.09	2.54	-2.16	-0.78	-1.38	77.08	64.09	0
2000	178	9	152.33	11.9	163.32	15.66	170.6	24.38	5.89	5.96	4.55	-2.89	-1.15	-1.74	79.77	65.44	0
2000	178	10	144.45	10.87	157.46	13.65	171.87	30.8	6.78	6.24	4.37	-2.96	-1.24	-1.72	81.64	65.67	0
2000	178	11	153.33	9.88	157.72	13.83	171.53	23.42	7.33	6.69	4.45	-2.78	-1.01	-1.77	83.66	64.9	0

2000	178	12	163.51	17.33	164.6	22.16	180.96	29.11	6.58	5.43	3.93	-2.66	-1.04	-1.62	85.64	63.6	0
2000	178	13	178.69	12.92	184.76	13.69	181.78	14.16	11.62	10.03	6.48	-2.4	-1.13	-1.26	87	62.81	0
2000	178	14	194.31	11.4	205.69	14.2	190.51	17.65	14.41	12.2	7.51	-2.8	-1.27	-1.53	88.13	62.08	0
2000	178	15	193.85	10.99	204.38	12.88	189.78	18.44	14.05	12.04	7.02	-2.33	-1.18	-1.16	88.2	59.74	0
2000	178	16	165.94	11.84	174.67	15.19	175.58	20.87	14	11.62	6.61	-2.26	-0.86	-1.4	86.96	58.19	0
2000	178	17	149.48	4.81	153.38	7.47	161.15	27.59	14.16	11.14	4.21	-1.17	-0.24	-0.94	84.07	62.08	0
2000	178	18	190.29	8.92	192.73	10.59	183.67	15.82	14.77	11.3	5.65	-0.34	-0.3	-0.04	84.01	60.32	0
2000	178	19	218.29	7.27	222.57	8.45	192.33	17.34	14.86	12.32	5.76	-1.27	-0.86	-0.41	84.15	57.62	0
2000	178	20	213.5	7.66	220.85	8.82	194.27	18.61	13.33	11.5	5.68	-1.49	-1.03	-0.46	82.91	56.82	0
2000	178	21	208.01	5.13	215.67	6.19	189.41	13.33	12.97	10.22	5.06	-1.18	-0.94	-0.23	80.98	60.85	0
2000	178	22	219.77	2.96	224.76	4.07	190.1	16.84	12.96	9.69	3.59	0.17	-0.14	0.31	79.17	63.3	0
2000	178	23	214.57	8.23	229.72	8.24	205.71	19.97	9.44	7.7	2.59	0.4	-0.72	1.12	78	61.2	0
2000	179	0	198.85	5.74	200.75	4.85	179.26	8.65	11.85	10.17	3.87	0.5	-0.72	1.21	76.84	60.74	0
2000	179	1	191.81	6.86	185.68	5.8	185.82	5.11	9.28	7.2	1.96	0.62	-0.5	1.12	75.73	60.22	0
2000	179	2	189.86	6.87	190.26	6.73	175.78	9.85	11.01	10.31	4.32	0.49	-0.76	1.25	74.71	63.26	0
2000	179	3	199.12	6.11	201.32	8.85	186.26	11.1	9.45	6.47	2.08	-0.27	-0.65	0.38	73.92	62.38	0
2000	179	4	194.24	5.57	191.58	6.57	170.92	9.39	11.07	7.61	2.21	0.59	-0.34	0.92	72.89	66.28	0
2000	179	5	183.5	5.88	182.07	5.98	174.95	9.29	10.46	7.87	3.08	-0.75	-0.9	0.15	74.04	64.91	0
2000	179	6	172.2	6.59	173.34	7.37	179.54	12.92	9.36	7.03	4.02	-1.61	-0.9	-0.71	75.12	64.13	0
2000	179	7	163.76	6.88	168.83	10.63	173.16	18.14	7.78	6.23	3.87	-2.22	-1.08	-1.14	76.77	64.56	0
2000	179	8	166.77	11.81	163.38	13.35	172.17	25.93	6.76	5.26	3.69	-2.47	-0.83	-1.64	79.53	65.05	0
2000	179	9	235.35	25.27	244.04	33.86	216.92	54.72	6.15	5.04	2.85	-2.17	-0.92	-1.25	82.03	64.08	0
2000	179	10	267.75	13.92	281.18	16.75	254.43	45.63	10.49	9.39	3.96	-3.05	-1.33	-1.72	84.13	62.29	0
2000	179	11	233.92	10.1	242.2	12.83	226.9	28.03	10.62	9.3	4.12	-2.86	-1.21	-1.64	84.19	66.03	0
2000	179	12	216.25	9.67	225.22	12.35	205.05	26.03	12.1	10.75	5.54	-2.56	-1.17	-1.39	84.11	62.43	0
2000	179	13	253.69	21.24	270.01	22.29	248.23	58.19	21.64	17.99	6.93	-1.83	-1.04	-0.79	77.15	60.91	0.57
2000	179	14	292.16	58.42	243.44	68.73	150	49.48	7.48	5.22	2.57	-1.35	-0.96	-0.39	70.85	63.34	0.05
2000	179	15	294.9	21.15	323.74	22.06	349.63	29.63	6.43	5.86	3.3	-1.85	-1.07	-0.78	70.72	60.48	0.01
2000	179	16	187.78	33.83	185.06	16.03	158.14	20.95	4.11	4.09	2.59	-1.39	-0.81	-0.58	71.17	60.44	0
2000	179	17	250.03	27.56	246.9	18.73	207.99	17.63	5.29	4.41	2.87	-1.51	-0.89	-0.62	71.95	58.11	0
2000	179	18	223.91	40.02	200.18	41.67	136.85	37.01	0.5	3.35	1.99	-0.91	-0.84	-0.07	70.57	58.7	0
2000	179	19	171.68	31.32	175.93	23.86	133.33	51.52	0.5	2.96	1.82	0.09	-0.59	0.68	69.93	59.83	0
2000	179	20	310.34	26.9	27.03	36.87	332.04	40.62	0.5	2.63	1.64	1.28	0.77	0.5	68.81	60.89	0
2000	179	21	310.84	58.51	97.91	34.18	135.61	25.38	0.5	2.03	1.59	1.21	0.03	1.19	68.27	60.88	0
2000	179	22	331.38	52.06	63.84	31.28	61.87	30.5	0.5	3.22	1.79	2.1	0.9	1.2	67.61	60.74	0
2000	179	23	285.28	29.95	4.99	31.23	23.78	34.28	0.5	3.74	2.74	1.37	0.69	0.68	66.83	58.95	0
2000	180	0	322.16	9.93	18.4	6.12	24.45	12.41	0.5	6.28	4.6	4.4	3.41	0.99	66.03	58.5	0
2000	180	1	344.8	8.56	21.46	5.16	30.35	12.37	0.5	6.87	5.52	4.4	2.42	1.98	65.65	58.22	0
2000	180	2	347.14	5.21	14.81	6.8	25.63	17.38	0.5	6.66	5.12	3.28	2.29	1	65.47	57.88	0
2000	180	3	350.26	8.4	15.47	7.07	27.57	12.24	0.5	5.17	3.83	1.33	1.03	0.3	65.25	56.57	0
2000	180	4	346.68	5.01	17.24	5.46	30.65	11.24	0.5	6.41	4.74	2.43	1.57	0.85	64.58	57.42	0
2000	180	5	350.98	8.99	28.68	11.2	45.43	31.01	0.5	6.9	3.89	2.7	2.61	0.08	64.13	58.66	0
2000	180	6	355.75	12.27	36.89	15.71	45.96	21.24	0.5	4.31	3.82	0.4	1.15	-0.75	65.82	58.13	0
2000	180	7	48.3	44.45	29.11	51.72	17.17	61.43	0.5	2.53	2.55	-2.01	-0.9	-1.11	68.88	57.44	0
2000	180	8	65.08	23.3	48.69	18.51	39.95	22.62	0.5	3.82	3.39	-2.41	-1.23	-1.18	70.99	58.51	0
2000	180	9	56.29	20.64	15.83	19.14	2.61	26.61	0.5	5.27	4.11	-2.47	-1.15	-1.32	72.94	58.59	0
2000	180	10	101.85	65.35	341.06	19.18	346.29	37.44	0.5	3.85	3.38	-2.73	-1.25	-1.48	75.28	56.43	0
2000	180	11	124.61	79.76	251.47	40.01	258.68	44.55	0.5	4.29	3.84	-2.79	-1.23	-1.56	77.46	55.9	0
2000	180	12	161.88	15.53	175.04	18.46	181.46	25.84	0.5	5.97	4.76	-2.96	-1.17	-1.79	78.82	54.93	0

2000	180	13	146.53	18.93	154.63	28.16	158	42.74	0.5	4.91	3.89	-2.93	-1.27	-1.66	79.38	55.13	0
2000	180	14	142.01	11.33	150.85	17.35	162.89	30.8	3.66	5.66	4	-3.2	-1.27	-1.93	80.46	55.58	0
2000	180	15	144.99	8.93	158.7	10.71	170.5	26.28	7.51	7.24	4.56	-3.36	-1.35	-2.01	80.97	55.42	0
2000	180	16	151.11	5.25	160.8	8.64	167.64	26.45	10.81	8.99	4.48	-1.97	-0.97	-1	78.66	57.02	0
2000	180	17	162.77	6.14	170.57	9.33	173.51	19.7	12.56	9.98	4.71	-1.35	-0.83	-0.52	77.47	56.85	0
2000	180	18	168.18	4.76	177.03	7.97	177.86	14.51	14.84	11.87	6.17	-1.3	-0.89	-0.41	76.45	55.41	0
2000	180	19	169.7	5.44	179.79	7.94	179.61	14.79	12.69	10.87	5.26	-1.07	-0.94	-0.14	74.74	55.37	0
2000	180	20	220.8	20.48	245.09	20.72	263.94	32.3	8.11	7.5	2.42	0.72	-0.51	1.23	71.28	56.23	0
2000	180	21	212.47	48.33	126.24	44.22	77.7	40.91	4.09	2.4	1.68	0.39	-0.39	0.78	69.78	56.68	0
2000	180	22	193.2	49.71	33.69	26.52	16.84	24.32	2.18	4.34	3.17	1.15	0.84	0.31	67.6	59.34	0
2000	180	23	342.41	35.82	21.26	7.9	20.15	12.66	2.52	6	4.47	1.62	1.6	0.02	66.77	58.51	0
2000	181	0	339.29	17.48	24.82	6.62	25.66	11.69	3.62	7.6	5.65	2.21	2.23	-0.02	66.18	58.4	0
2000	181	1	334.07	15.35	24.96	7.5	33.32	13.28	5.26	8.53	6.27	2.41	1.87	0.54	65.5	58.61	0
2000	181	2	348.92	18.6	28.28	7.86	33.85	14.3	4.48	7.54	5.01	1.43	1.11	0.33	65.15	57.88	0
2000	181	3	12.81	9.65	49.23	14.13	69.02	24.87	3.8	4.14	2.01	-0.37	0.17	-0.54	64.27	57.95	0
2000	181	4	24.81	12.67	28.28	10.12	14.99	21.33	2.37	2.35	1.87	-0.43	-0.2	-0.23	64.3	58.08	0
2000	181	5	357.31	14.09	14.13	8.15	16.6	12.44	2.78	4.43	3.89	-0.35	0.29	-0.64	64.39	57.44	0
2000	181	6	326.43	13.6	30.1	10.98	28.52	13.22	2.69	4.11	3.7	-0.64	0.22	-0.87	65.05	57.61	0
2000	181	7	16.47	14.31	40.31	12.89	34.67	19.8	2.8	3.63	3.21	-1.32	-0.39	-0.93	65.98	58.3	0
2000	181	8	133.27	43.09	129.05	49.29	96.79	54.01	2	1.89	1.93	-2.08	-1.07	-1.01	67.85	58.41	0
2000	181	9	158.5	14.31	175.75	18.06	189.55	36.33	4.42	4.61	3.54	-2.54	-1.17	-1.36	69.83	57.74	0
2000	181	10	157.74	9.79	168.08	12.3	174.52	22.97	5.9	5.79	4.12	-2.91	-1.16	-1.76	71.11	58.73	0
2000	181	11	144.49	7.99	156.73	11.14	165.27	30.74	7.39	7.28	4.8	-3.3	-1.3	-2	72.4	58.78	0
2000	181	12	140.77	9.14	149.77	11.99	156.79	32.58	8.82	8.58	4.41	-3.43	-1.25	-2.17	73.01	57.52	0
2000	181	13	141.79	7.22	152.09	10.48	161.47	33.25	9.58	9.47	5.39	-3.68	-1.38	-2.3	73.94	56.28	0
2000	181	14	141.38	8.22	148.47	11.11	156.65	32.19	9.24	9.77	4.83	-3.57	-1.25	-2.32	74.8	57.07	0
2000	181	15	139.35	7.97	151.06	11.13	161.28	35.47	10.03	9.51	4.72	-3.21	-1.32	-1.89	74.88	58.3	0
2000	181	16	142.83	6.15	154.82	10.15	164.15	31.8	13	10.27	4.84	-2.75	-1.26	-1.49	74.49	57.68	0
2000	181	17	357.39	39.57	30.32	45.91	56.12	54.81	14.74	11.97	6.17	-1.8	-0.76	-1.04	67.69	55.87	0.07
2000	181	18	280.9	42.48	276.68	48.43	111.96	33.26	7.97	7.19	4.5	0.73	0.25	0.48	63.04	56.91	0.28
2000	181	19	188.82	10.29	192.06	11.82	195.26	9.03	6.2	5.46	2.38	-0.36	-0.23	-0.14	63.07	56.74	0
2000	181	20	203.62	12.42	220.37	14.75	192.36	4.28	4.4	3.51	1.54	-1.02	-0.97	-0.05	63.45	58.6	0
2000	181	21	220.47	8.96	241.07	14.37	237.67	23.8	5.42	3.61	1.64	-0.32	-0.59	0.27	63.52	58.09	0
2000	181	22	242.62	13.19	254.47	35.62	81.75	42.73	4.43	2.25	1.47	1.5	0.23	1.27	62.81	57.85	0
2000	181	23	203.71	59.19	9.85	58.97	50.49	24.3	1.92	2.13	1.6	0.01	-0.43	0.44	62.25	57.51	0
2000	182	0	287.37	42.74	26.38	15.52	27.6	16.79	4.06	4.89	3.87	1.63	1.04	0.58	61.68	56.91	0
2000	182	1	281.43	40.23	145.37	52.08	98.88	35.64	4.7	3.66	2.99	1.93	-0.24	2.17	61.73	55.7	0
2000	182	2	347.38	26.36	20.41	29.19	39	31.69	7.73	5.6	2.67	-0.14	-0.63	0.48	63.52	55	0
2000	182	3	317.31	24.69	332.89	42.41	111.14	31.69	5.03	3.52	2.14	1.4	-0.18	1.58	62.21	55.36	0
2000	182	4	344.64	17.76	12.6	16.47	23.48	17.78	6.09	5.76	2.8	0.24	-0.78	1.02	62.09	53.56	0
2000	182	5	348.78	17.09	11.45	16.65	29.23	35.49	7.94	7.46	3.67	-1.01	-0.71	-0.3	62.52	52.92	0
2000	182	6	328.75	25.2	345.37	38.22	24.85	73.9	8.52	5.86	2.97	-1.97	-1.13	-0.84	63.89	54.06	0
2000	182	7	321.39	18.78	341.21	21.9	3.25	46.84	11.64	9.83	5.22	-2.38	-1.2	-1.18	65.71	53.48	0
2000	182	8	326.18	13.52	338.31	16.23	2.58	42.05	15.31	13.25	5.89	-2.71	-1.26	-1.45	68.35	54.35	0
2000	182	9	310.63	14.18	324.16	17.66	336.66	58.17	12.35	11.32	4.77	-3.38	-1.47	-1.91	69.78	54.88	0
2000	182	10	310.05	21.35	320.36	24.18	344.78	59.98	10.28	8.79	4.45	-3.47	-1.48	-1.99	71.8	54.23	0
2000	182	11	291.88	14.99	306.44	20.49	300.24	69.8	15.02	13.72	5.08	-4.01	-1.58	-2.42	73.44	53.54	0
2000	182	12	305.41	15.63	318.1	19.52	322.99	67.9	15.15	13.7	4.84	-3.88	-1.49	-2.39	74.22	52.17	0
2000	182	13	309.59	17.89	320.46	22.8	336.39	64.55	11.25	10.02	4.53	-3.81	-1.59	-2.21	75.77	51.65	0

2000	182	14	311.05	11.47	326.2	15.65	343.97	50.09	14.15	12.83	5.09	-3.21	-1.35	-1.87	76.04	50.9	0
2000	182	15	309.16	13.35	324.23	17.27	335.47	50.04	10.92	9.74	4.56	-2.73	-1.32	-1.41	76.17	50.25	0
2000	182	16	297.91	10.96	315.06	14.01	336.84	59.08	10.7	9.57	3.6	-2.85	-1.46	-1.39	77.07	50.02	0
2000	182	17	293.98	14.54	306.95	17.05	243.11	77.29	11.57	9.53	3.08	-2.89	-1.51	-1.38	77.27	50.35	0
2000	182	18	283.1	7.44	289.52	12.63	226.03	30.2	8.47	6.63	2.26	-1.66	-1.2	-0.46	75.6	51.4	0
2000	182	19	275.94	4.17	281.91	2.99	251.85	34.52	11.05	9.48	2.23	1.17	-0.56	1.73	72.09	53.85	0
2000	182	20	293.07	2.81	304.5	11.3	231.08	31.85	13.42	7.89	1.4	3.08	0.36	2.72	69.55	52.35	0
2000	182	21	301.66	14.24	7.75	23.82	83.18	20.62	9.11	5.19	2.71	3.63	1.31	2.32	66.55	54.79	0
2000	182	22	304.19	13.14	27.72	9.9	50.81	12.6	5.06	5.07	2.69	3.47	1.53	1.94	65.39	54.25	0
2000	182	23	320.7	6.68	17.7	9.15	29.3	13.77	7.68	5.52	3.67	4.27	2.48	1.8	64.22	54.02	0
2000	183	0	313.51	11.74	14.24	13.05	42.82	25.1	7.9	5.2	3.86	5.01	2.25	2.76	62.53	53.69	0
2000	183	1	275.46	28.58	22.97	25	32.98	12.25	2.65	3.55	2.98	3.03	0.95	2.09	61.17	53.8	0
2000	183	2	298.29	18.51	21.86	16.04	46.91	15.72	5.79	5.51	4.48	3.62	1.29	2.33	60.48	53.38	0
2000	183	3	23.34	48.22	27.77	10.63	31.23	15.87	2.6	5.47	2.91	1.52	0.55	0.96	60.18	52.99	0
2000	183	4	329.23	16.78	11.69	8.91	38.26	15.51	4.66	5.14	3.06	3.81	1.49	2.32	59.33	53.21	0
2000	183	5	48.49	52.5	25.8	6.63	30.17	16.79	1.65	5.63	2.9	2.47	1.77	0.69	59.41	52.76	0
2000	183	6	21.68	8.82	24.81	15.55	26.05	17.38	4.45	3.59	3.17	-0.43	0.44	-0.87	61.85	53.29	0
2000	183	7	52.13	27.29	53.69	43.16	35.02	49.05	2.77	2.79	2.76	-1.86	-0.83	-1.03	65.24	53.12	0
2000	183	8	139.31	58.54	221.78	52.42	233.81	42.16	2.06	2.28	2.48	-2.72	-1.22	-1.5	69.29	55.78	0
2000	183	9	5.97	33.05	17.84	34.08	12.61	24.93	3.22	2.98	3.23	-2.28	-1.13	-1.14	71.54	54.96	0
2000	183	10	299.15	56.12	319.23	62.19	340.73	76.75	2.93	3	2.93	-2.75	-1.29	-1.46	74.77	53.75	0
2000	183	11	333.43	42.97	352.95	50.27	5.03	33.74	3.47	3.49	3.27	-2.92	-1.4	-1.51	76.48	53.93	0
2000	183	12	332.8	42.29	355.46	32.22	348.38	37.31	4.23	4.09	3.43	-2.85	-1.37	-1.48	77.6	52.84	0
2000	183	13	300.16	42.93	329.48	47.72	335.75	47.8	3.88	3.71	3.04	-2.64	-1.25	-1.39	78.57	52.44	0
2000	183	14	224.34	45.2	231.51	51.35	186.81	67.97	3.89	3.87	3.55	-2.84	-1.26	-1.58	79.9	53.23	0
2000	183	15	181.11	25.6	184.44	24.23	186.55	18.14	5.76	5.57	4.35	-2.91	-1.18	-1.72	80.56	54.39	0
2000	183	16	167.36	18.65	175.37	15.15	181.01	20.61	5	4.96	3.97	-2.48	-1.11	-1.38	80.42	54.48	0
2000	183	17	155.23	7.41	164.2	8.24	175.24	14.01	4.87	4.98	4.01	-2.16	-0.88	-1.29	79.79	55.43	0
2000	183	18	149.79	4.6	157.43	10.72	173.14	15.18	5.75	4.13	1.53	-1.21	-0.55	-0.66	78.68	55.75	0
2000	183	19	168.99	7.5	171.8	7.5	196.07	11.12	6.98	4.17	1.18	1.15	0.15	0.99	75.26	56.12	0
2000	183	20	181.44	12.71	178.27	27.18	186.15	37.02	4.76	3.04	1.47	2.12	0.11	2.01	72.34	57.91	0
2000	183	21	172.26	10.44	266.2	56.44	0.33	18.54	4.43	1.65	2.17	2.93	0.49	2.43	70.05	60.19	0
2000	183	22	180.1	7.28	264.04	30	359.49	10.9	5.67	2.21	2.18	2.87	0.12	2.75	68.29	59.48	0
2000	183	23	181.62	8.54	316.28	32.46	357.82	10.61	4.14	2.23	1.62	3.14	0.34	2.8	66.63	59.47	0
2000	184	0	206.55	16.93	1.48	18.46	0.67	9.86	2.78	2.3	1.66	3.77	0.81	2.96	65.17	58.46	0
2000	184	1	213.85	20.7	8.01	9.75	12.73	10.67	1.84	3.62	2.52	3.95	1.48	2.47	64.07	57.82	0
2000	184	2	172.7	16.76	22.04	7.45	19.65	11.73	1.55	4.36	3.18	4.34	2.09	2.26	63.11	57.17	0
2000	184	3	150.61	32.04	24.16	11.37	23.21	13.28	1.52	4.52	3.02	4	1.64	2.35	62.42	56.48	0
2000	184	4	130.93	21.44	30.92	14.97	17.63	16.26	2.57	4.01	2.17	4.16	2.08	2.08	61.79	56.12	0
2000	184	5	122.32	12.19	83.1	22.6	19.28	13.55	2.96	2.38	2.47	4.1	2.28	1.83	62.13	56.54	0
2000	184	6	104.63	12.79	80.82	48.74	38.35	33.04	3.99	1.97	1.89	1.79	2.02	-0.23	64.85	57.17	0
2000	184	7	140.55	13.68	190.61	34	236.06	32.03	2.95	2.46	2.39	-0.86	-0.1	-0.76	68.13	59.11	0
2000	184	8	161.5	19.34	185.71	21.15	194.07	22	2.99	3.04	3.01	-1.93	-0.55	-1.38	72.84	58.62	0
2000	184	9	151.31	25.48	181.25	21.23	188.05	21.43	2.53	3.05	3.08	-2.77	-1.2	-1.57	76.71	58.85	0
2000	184	10	149.16	21.91	180.46	17.51	192.7	18.18	3.58	4.37	4.26	-2.79	-1.16	-1.64	79.65	60.25	0
2000	184	11	162.8	13.09	183.09	14.03	188.98	18.02	5.37	5.91	5.03	-3.02	-1.24	-1.79	82.15	57.71	0
2000	184	12	164.29	13.08	175.29	13.68	180.75	19.73	5.55	5.96	4.5	-2.64	-1.14	-1.5	82.37	56.28	0
2000	184	13	157.25	13.26	172.83	13.6	176.57	21.06	5.97	6.13	4.57	-3.01	-1.24	-1.77	83.65	55.79	0
2000	184	14	153.37	15.92	159.61	17.97	163.67	26.74	4.93	4.99	3.45	-2.92	-1.17	-1.76	83.99	56.04	0

2000	184	15	184.73	23.69	195.75	23.18	192.36	23.46	4.18	3.89	3.07	-2.91	-1.3	-1.61	84.73	55.68	0
2000	184	16	187.45	18.64	196.02	17.45	193.49	19.34	5.84	5.28	4.16	-2.56	-1.16	-1.41	84.56	55.02	0
2000	184	17	233.86	5.22	245.37	7.86	231.71	30.44	10.07	9.04	3.52	-2.27	-1.14	-1.13	83.85	55.71	0
2000	184	18	216.63	8.55	227.05	9.5	207.44	20.35	9.9	8.02	3.26	-1.09	-0.78	-0.32	81.87	57.61	0
2000	184	19	188.29	5.32	205.11	8.07	183.26	7.34	8.83	6.49	2.52	-0.05	-0.62	0.57	78.7	57.2	0
2000	184	20	182.78	9.27	162.69	9.24	148.75	19.82	4.91	4.43	1.45	0.98	-0.54	1.53	75.48	58.93	0
2000	184	21	154.83	4.14	177.66	8.81	222.16	39.28	5.12	4.96	1.49	2.25	-0.26	2.51	72.8	59.26	0
2000	184	22	173.94	16.11	179.48	59.52	0.6	25.95	4.2	1.61	1.85	2.8	0.77	2.03	71.11	60.26	0
2000	184	23	171.67	13.67	338.15	31.64	358.31	18.14	2.97	1.78	2.71	2.58	-0.34	2.93	68.9	59.6	0
2000	185	0	167.11	8.64	306.32	34.45	351	38.41	3.92	1.86	2.41	3.1	0.15	2.95	67.25	58.7	0
2000	185	1	182.63	8.59	282.05	53.06	40.65	30.76	6.46	2.22	1.57	4.08	1.25	2.83	66.03	59.08	0
2000	185	2	160.59	5.55	229.01	33.1	11.14	38.18	5.94	2.05	1.72	3.61	1.65	1.96	65.74	58.88	0
2000	185	3	151.55	5.11	213.54	33.55	0.7	16.05	6.32	2.26	1.57	3.12	0.83	2.29	65.4	58.98	0
2000	185	4	154.57	6.66	226.76	63.21	10.95	13.15	5.31	2	1.97	2.92	0.54	2.38	65.25	58.82	0
2000	185	5	156.98	7.95	196.51	53.57	359.53	16.41	4.8	1.7	1.96	2.2	-0.21	2.41	65.13	58.56	0
2000	185	6	166.47	12.76	211.84	41.23	10.44	23.33	3.45	1.45	1.51	-0.38	-0.67	0.29	67.15	59.18	0
2000	185	7	155.68	12.97	206.62	26.25	233.5	23.15	3.29	2.48	2.27	-2	-0.95	-1.06	69.5	59.69	0
2000	185	8	149.89	12.97	178.05	16.56	187.65	19.38	3.99	4.16	3.63	-2.67	-1.22	-1.45	72.84	60.18	0
2000	185	9	169.19	16.78	187.72	19.3	195.11	27.18	4.03	4.16	3.37	-2.57	-1.19	-1.39	75.16	61.46	0
2000	185	10	151.88	13.37	199.1	23.03	243.01	16.02	3.68	3.24	3.14	-1.77	-0.94	-0.83	76.01	63.08	0
2000	185	11	147.92	14.9	176.73	25.42	206.18	23.09	3.95	3.59	3.09	-2.26	-1.11	-1.15	79.23	63.52	0
2000	185	12	147.47	12.69	159.08	16.95	166.92	30.92	5.67	5.67	3.54	-3	-1.2	-1.8	82.89	63.17	0
2000	185	13	165.37	10.47	170.69	14.38	176.45	19.55	7.22	5.77	3.37	-1.64	-0.87	-0.76	82.28	63.15	0
2000	185	14	212.15	9.32	222.13	11.32	198.35	22.06	8.54	6.87	2.43	-0.95	-0.88	-0.07	82.07	62.29	0
2000	185	15	181.37	13.22	185.42	12.75	165.72	22.03	6.17	5.5	2.03	-0.72	-0.65	-0.07	80.8	63.96	0
2000	185	16	166.15	10.74	164.62	10.55	165.98	19.52	5.96	4.57	1.89	-0.41	-0.17	-0.24	78.71	66.75	0.01
2000	185	17	164.9	55.7	183.69	42.45	176.8	43.38	5.91	6.13	3.14	-0.01	-0.46	0.45	72.99	65.77	0.15
2000	185	18	233.41	25.9	228.86	32.07	188.47	49.93	5.75	3.73	2	0.07	-0.27	0.34	71.33	65.23	0.04
2000	185	19	162.98	9.74	172.26	11.9	181.19	18.74	8.71	6.37	2.43	-0.26	-0.18	-0.08	71	65.92	0
2000	185	20	163.61	9.08	172.78	12.31	181.94	16.73	7.79	6.41	2.98	-1.18	-0.77	-0.41	71.44	66.84	0
2000	185	21	202.77	6.36	216.8	7.48	199.51	6.7	6.72	5.42	2.12	-0.76	-0.81	0.05	71.05	64.67	0
2000	185	22	191.03	4.95	213.65	9.48	191.19	10.96	8.26	6.07	2.5	-0.67	-0.61	-0.06	70.41	64.6	0
2000	185	23	201.87	4.13	209.88	5.44	189.16	11.14	11.62	7.97	3.97	-0.4	-0.34	-0.06	70.38	64.28	0
2000	186	0	196.48	6.52	204.79	7.36	185.75	9.05	9.47	7.17	3.3	-0.99	-0.73	-0.26	70.27	64.1	0
2000	186	1	176.3	4.74	176.35	7.68	182.33	1.75	6.13	4.47	1.26	-0.76	-0.84	0.08	69.66	64.09	0
2000	186	2	195.02	5.3	216.76	11.54	181.77	0	4.78	3.07	1.09	-0.86	-0.78	-0.08	69.44	64.14	0
2000	186	3	219.28	12.68	215.73	20.81	177.41	22.72	5.45	3.65	1.96	-0.4	-0.33	-0.07	69.42	63.92	0
2000	186	4	191.45	8.19	205.59	13.59	196.02	30.09	5.42	4.41	1.31	-0.06	-0.61	0.55	68.75	64.16	0
2000	186	5	229.29	46.46	21.3	31.84	31.87	33.58	1.99	1.95	1.64	-0.62	-0.58	-0.04	69.42	64.95	0
2000	186	6	166.8	11.79	173.1	19.2	145.24	26.41	3.07	2.68	1.57	-1.32	-0.67	-0.65	70.32	65.25	0
2000	186	7	159.07	21.76	169.35	22.2	176.03	36.68	2.44	2.76	2.1	-2.1	-0.96	-1.15	71.92	65.61	0
2000	186	8	143.73	29.73	136.17	36.41	144.29	32.62	2.38	2.42	1.78	-2.29	-1.07	-1.22	72.81	65.58	0
2000	186	9	146.03	34.9	172.82	31.8	178.45	36.8	2.4	2.96	2.65	-2.46	-1.24	-1.22	74.6	66.07	0
2000	186	10	207.73	27.95	202.52	24.22	196.7	31.45	3.45	3.64	2.94	-2.5	-1.18	-1.32	76.39	65.42	0
2000	186	11	85.88	34.37	124.83	31.14	114.75	40.95	3.08	2.86	2.46	-2.38	-1.19	-1.19	77.83	65.36	0
2000	186	12	156.86	53.22	216.21	46.94	219.01	55.16	2.73	3.69	3.21	-2.03	-0.87	-1.16	78.17	65.95	0
2000	186	13	161.63	10.85	176.55	12.38	184.49	19.93	5.45	6.01	4.95	-2.66	-1.14	-1.51	79.95	65.84	0
2000	186	14	149.09	16.65	155.88	17.55	167.82	35.8	4.73	4.61	3.69	-3.11	-1.17	-1.94	82.14	65.64	0
2000	186	15	155.59	12.21	162.9	15.54	175.44	23.88	4.74	5.21	3.84	-3	-1.14	-1.87	83.12	65.98	0

2000	186	16	151.89	9.1	153.49	9.76	166.09	21.61	5.68	5.39	2.77	-2.02	-0.72	-1.3	82.53	66.13	0
2000	186	17	200.57	11.75	199.09	13.16	205.71	29.13	7.56	5.16	2.02	-1.28	-0.74	-0.55	82.36	67.48	0
2000	186	18	231.1	6.16	239.62	8.34	211.81	30.12	12.47	9.74	3.27	-1.28	-0.87	-0.41	82.07	66.82	0
2000	186	19	241.25	6.11	247.83	8.37	230.09	32.71	13.82	10.68	3.15	-0.87	-0.74	-0.13	80.61	66	0
2000	186	20	260.58	5.67	272.92	8.06	256.6	38.14	15.49	11.07	2.86	-0.05	-0.38	0.34	79.26	65.63	0
2000	186	21	282.04	4.37	290.78	4.97	268.04	46.43	17.49	14.11	3.04	0.68	-0.31	0.99	78.43	64.59	0
2000	186	22	297.23	6.74	308.03	9.66	320.98	72.29	16.5	13.49	3.51	-0.78	-0.77	-0.01	79.45	63.27	0
2000	186	23	311.28	10.04	323.22	10.83	5.03	46.54	14.24	12.25	3.96	-0.9	-0.86	-0.04	78.09	63	0
2000	187	0	327.44	27.84	336.6	36.28	24.57	54.33	10.32	8.75	4.49	-1.5	-1	-0.5	77.01	60.73	0
2000	187	1	314.87	39.46	337.06	44.17	351.62	64.94	7.81	6.78	3.14	-1.13	-1.02	-0.11	74.74	57.73	0
2000	187	2	312.54	8.69	325.91	12.05	313.01	67.64	9.77	7.93	2.46	-1.19	-0.93	-0.26	72.41	56.12	0
2000	187	3	314.65	9.61	324.82	24.67	119.78	64.44	9.55	6.25	2.08	0.3	-0.19	0.49	69.98	56.07	0
2000	187	4	320.11	12.09	346.59	24.3	55.81	21.94	10.44	6.47	2.91	0.42	-0.44	0.86	68.77	54.97	0
2000	187	5	348.27	20.2	20.48	18.6	35.38	19.13	8.9	7.77	4.51	-1.02	-0.93	-0.1	68.48	53.66	0
2000	187	6	341.95	16.2	2.87	14.87	12.61	19.87	8.67	7.27	4.7	-2.01	-1.08	-0.93	70.26	52.55	0
2000	187	7	341.62	16.77	357.12	17.38	5.91	22.59	6.9	5.98	3.8	-2.49	-1.21	-1.28	71.99	52.95	0
2000	187	8	340.09	14.18	353.66	15.06	0.4	26.47	7.94	7.4	4.39	-2.73	-1.28	-1.45	73.61	53.42	0
2000	187	9	344.22	15.07	359.78	13.63	1.81	23.85	6.74	6.76	4.91	-2.98	-1.4	-1.58	75.64	54.02	0
2000	187	10	349.81	16.2	3.93	14.94	358.39	22.44	8.9	8.37	5.79	-2.96	-1.38	-1.59	77.51	52.5	0
2000	187	11	347.96	17.59	0.97	18.47	1.24	27.19	9.17	7.97	5.63	-3.14	-1.45	-1.68	79.05	52.31	0
2000	187	12	325.73	34.73	340.46	35.35	358.64	47.35	11.74	10.67	6	-3.19	-1.39	-1.8	81.16	51.23	0
2000	187	13	307.78	17.83	322.17	21.54	338.27	62.09	13.94	12.94	5.23	-3.4	-1.39	-2.01	82.43	49.29	0
2000	187	14	309.04	14.06	322.17	15.62	334.8	68.51	15.88	14.76	4.97	-3.6	-1.4	-2.2	83.01	49.52	0
2000	187	15	321.36	16.35	332	17.85	358.48	42.7	14.48	13.24	5.42	-3.24	-1.43	-1.81	82.53	50.55	0
2000	187	16	323.95	11.71	337.26	12.68	358.25	41.97	13.83	12.82	5.22	-2.62	-1.27	-1.34	81.71	49.84	0
2000	187	17	322.53	14.59	335.74	16.75	358.84	36.08	12.84	11.81	5.29	-2.43	-1.26	-1.17	81.21	50.47	0
2000	187	18	317.86	10.56	331.07	13.63	2.07	38.55	14.09	13	5.14	-1.95	-1.22	-0.73	80.1	49.38	0
2000	187	19	326	13.53	338.65	14.1	2.75	29.41	13.18	12.01	5.16	-1.68	-1.14	-0.54	78.24	48.39	0
2000	187	20	335.89	7.91	351.07	11.96	6.84	23.8	13.87	12.17	5.46	-1.14	-0.89	-0.25	75.79	48.73	0
2000	187	21	354.92	11.67	39.2	10.14	27.01	13.89	7.24	6.76	2.91	0.37	-0.19	0.56	71.12	50.45	0
2000	187	22	349.91	5.05	16.06	8.77	28.17	26.26	9.45	6.9	3.11	1.81	0.52	1.29	68.51	50.84	0
2000	187	23	341.4	12.75	28.31	12.54	56.15	19.46	6.58	6.13	3.05	1.91	0.61	1.3	65.62	50.29	0
2000	188	0	353.13	7.41	5.33	9.86	17.27	14.85	12.49	9.89	4.77	0.91	0.06	0.85	65.49	50.56	0
2000	188	1	355.61	10.43	7.59	13.3	17.68	17.24	17.01	13.72	7.39	-1.36	-0.92	-0.44	65.87	47.62	0
2000	188	2	1.38	9.99	15.95	12.68	20.56	16.5	16.83	13.86	8.1	-1.68	-1.01	-0.67	64.57	46.43	0
2000	188	3	358.74	10.17	11.5	13.67	23.51	17.94	15.86	12.76	6.95	-1.51	-1.08	-0.43	63.19	46.71	0
2000	188	4	357.37	9.43	9.17	14.12	19.77	16.45	14.53	11.95	6.62	-1.68	-1.07	-0.61	62.58	46.95	0
2000	188	5	1.36	11.37	16.84	13.94	30.38	15.19	9.08	6.67	4.6	-1.47	-0.84	-0.63	61.18	47.56	0
2000	188	6	2.36	12.85	14.97	15.92	20.66	17.29	7.94	6.64	4.94	-2.29	-1.17	-1.12	62.64	48.34	0
2000	188	7	356.82	10.86	5.21	11.37	6.13	19.04	10.25	9.35	6.01	-2.84	-1.37	-1.48	64.75	48.08	0
2000	188	8	344.2	8.27	352.38	10.16	359.48	21.95	10.97	10.57	5.68	-3.13	-1.36	-1.77	66.4	49.15	0
2000	188	9	344.64	8.97	351.21	10.73	358.12	24.68	9.39	9.08	5.23	-3.32	-1.34	-1.98	67.98	49.32	0
2000	188	10	352.34	8.57	359.01	13.37	355.33	25.66	8.14	7.5	5.09	-3.36	-1.42	-1.94	69.88	47.89	0
2000	188	11	358.37	15.88	7.34	16.35	9.45	23.41	8.1	7.76	5.94	-3.32	-1.51	-1.81	71.66	46.94	0
2000	188	12	356.12	11.73	6.67	14.43	5.66	21.57	9.29	8.62	6.39	-3.39	-1.55	-1.85	72.7	47.68	0
2000	188	13	8.11	15.15	16.1	19.71	15.65	21.54	8.18	7.74	6.29	-3.13	-1.46	-1.67	73.93	46.12	0
2000	188	14	6.5	19.8	14.93	22.12	11.72	29.03	6.73	6.45	4.89	-2.74	-1.28	-1.46	74.6	44.87	0
2000	188	15	14.9	21.34	30.67	21.88	22.71	26.36	4.83	4.66	3.67	-2.48	-1.24	-1.24	74.27	46.16	0
2000	188	16	338.94	19.48	356.36	21.18	356.74	26.6	4.08	3.76	2.84	-2.37	-1.19	-1.17	73.99	47.5	0

2000	188	17	351.08	10.14	1.92	9.7	359.01	14.23	6.37	6.32	4.31	-2.11	-1.14	-0.97	73.34	49.71	0
2000	188	18	4.9	10.05	15.44	12.94	10.75	16.62	12.83	10.89	6.99	-2.69	-1.39	-1.29	72.36	52.2	0
2000	188	19	6.09	8.84	14.61	9.99	16.04	16.27	11.55	9.92	6.45	-2.27	-1.22	-1.05	69.6	49.86	0
2000	188	20	1.9	7.1	11.42	7.46	4.69	14.25	10.29	8.93	4.98	-1.74	-1.06	-0.69	68.41	48.54	0
2000	188	21	358.3	6.28	13.84	8.6	30.72	16.52	6.19	5.05	2.66	-0.03	-0.5	0.47	65.96	50.88	0
2000	188	22	349.49	4.41	15.88	7.08	27.88	14.68	5.61	5.29	3.11	1.8	0.48	1.31	63.56	51.61	0
2000	188	23	340.56	6.62	12.06	7.04	21.82	12.43	5.78	5.5	4.3	2.27	1.41	0.86	62.7	51.51	0
2000	189	0	337.13	13.07	14.96	12.96	30.7	16.04	8.32	6.69	4.93	1.81	0.95	0.87	61.64	51.83	0
2000	189	1	338.37	19.13	19.59	24.02	54.62	20.77	6.81	5.47	3.83	0.75	-0.07	0.82	61.57	51.13	0
2000	189	2	332.5	8.76	19.89	11.81	44.79	17.55	7.6	5.52	2.92	0.97	0.69	0.28	60.64	51.31	0
2000	189	3	340	4.92	7.67	9.07	21.49	15.5	10.78	8.66	4.79	0.09	0.08	0.01	61.76	51.11	0
2000	189	4	343.41	7.85	4.89	6.49	9.36	14.68	10.5	9.74	6.31	-1.37	-0.84	-0.52	61.86	50.35	0
2000	189	5	346.71	8.03	6.44	7.79	9.14	13.7	11	10.38	6.53	-1.72	-0.92	-0.8	61.89	49.56	0
2000	189	6	351.73	7.82	4.72	11.11	8.82	16.36	13.9	12.53	7.63	-2.43	-1.19	-1.25	63.14	49.92	0
2000	189	7	349.65	7.68	0.08	12.45	3.73	20.32	16.1	14.86	8.44	-2.68	-1.26	-1.41	64.77	48.86	0
2000	189	8	348.58	13.19	359.69	14.94	6.36	23.07	13.04	11.38	6.73	-3.13	-1.4	-1.73	66.41	48.94	0
2000	189	9	353.18	13.32	7.25	14.57	12.14	18.87	13.05	11.14	7.54	-3.54	-1.61	-1.94	68.26	49.67	0
2000	189	10	347.12	11.8	356.92	14.74	4.89	19.62	12.55	11.52	7.06	-3.46	-1.4	-2.05	70.31	49.26	0
2000	189	11	355.43	13.54	5.82	17.46	7.5	22.57	13.01	11.34	7.18	-3.55	-1.54	-2.01	71.96	47.92	0
2000	189	12	332.66	14.06	343.54	16.62	1.14	36.08	11.99	11.07	5.67	-3.09	-1.33	-1.76	72.16	47.71	0
2000	189	13	348.29	19.11	356.79	18.4	4.41	28.3	12.04	9.97	5.9	-3.19	-1.41	-1.79	72.92	47.57	0
2000	189	14	345.48	7.33	355.6	12.81	4.24	21.18	17.9	16.12	7.61	-2.73	-1.29	-1.45	72.38	46.33	0
2000	189	15	341.57	7.73	353.67	11.91	2.48	21.32	17.91	16.26	7.98	-2.59	-1.26	-1.33	72.52	42.81	0
2000	189	16	339.35	12.92	349.22	16.32	358.48	32	14.1	12.59	6.22	-2.45	-1.27	-1.18	72.02	43.03	0
2000	189	17	326.22	12.15	338.19	13.66	2.66	37.61	12.77	11.6	5.27	-2.52	-1.27	-1.25	71.94	44.52	0
2000	189	18	315.57	10.95	325.64	13.82	354.9	49.35	17.08	15.35	5.75	-2.42	-1.32	-1.1	71.52	43.96	0
2000	189	19	314.52	11.69	328.33	13.61	2.1	44.78	17.35	15.39	5.21	-1.92	-1.2	-0.72	69.12	42.45	0
2000	189	20	316.87	13.02	328.96	16.04	359.38	45.35	15.82	13.66	5.15	-1.86	-1.22	-0.64	67.75	42.8	0
2000	189	21	328.84	14.73	341.51	15.53	358.94	34.27	15.69	13.96	6.42	-1.81	-1.13	-0.68	66.16	42.38	0
2000	189	22	324.6	18.76	327.71	20.49	338.35	57.34	12.35	10.49	4.62	-1.54	-1.06	-0.48	65.05	42.29	0
2000	189	23	323.77	14	330.01	17.48	353.6	51.09	11.18	9.26	3.66	-1.51	-1.14	-0.37	63.92	43.19	0
2000	190	0	319.06	12.52	326.79	15.41	343.44	55.14	10.61	9.27	3.47	-1.5	-1.1	-0.41	62.79	43.03	0
2000	190	1	316.56	6.35	327.33	7.77	6.18	50.29	13.72	12.1	3.89	-1.38	-0.82	-0.56	61.33	43.57	0
2000	190	2	336.08	13.99	346.16	28.83	63.11	29.7	8.21	5.92	2.7	-0.46	-0.62	0.15	58.98	44.42	0
2000	190	3	316.98	23.86	3.14	34.15	71.34	43.89	5.85	4.47	2.04	0.62	-0.77	1.39	57.4	44.52	0
2000	190	4	314.95	10.19	325.72	16.82	17.77	43.25	14.39	12.07	4.34	-0.66	-0.63	-0.03	58.42	45.1	0
2000	190	5	317.89	7.09	327.43	8.38	9.92	40.92	15.55	14.1	4.93	-1.61	-0.71	-0.9	59.5	46.03	0
2000	190	6	317.55	10.23	324.05	9.53	359.37	54.69	12.12	12.08	4.12	-2.34	-1.12	-1.22	61.8	46.72	0
2000	190	7	316.67	10.06	326.21	10.61	2.19	48.02	14.34	13.94	5.06	-2.89	-1.34	-1.56	63.83	47.7	0
2000	190	8	322.54	10.38	334.4	12.5	359.06	39.37	16.1	14.49	6.27	-3.08	-1.35	-1.73	65.98	47.56	0
2000	190	9	333.13	13.49	344.65	15.71	359.95	31.02	15.46	14.11	6.97	-3.36	-1.42	-1.94	67.98	47.66	0
2000	190	10	328.25	14.81	339.37	18.98	2.85	31.69	13.64	12.36	6.52	-3.53	-1.48	-2.05	69.96	47.67	0
2000	190	11	348.1	16.4	0.37	15.4	6.5	25.16	12.53	11.06	7.15	-3.54	-1.49	-2.05	71.63	46.56	0
2000	190	12	1.02	18.59	22.69	22.23	26.37	22.8	8.09	7.27	5.89	-3.29	-1.58	-1.71	73.23	45.84	0
2000	190	13	8.78	23.1	16.94	29.67	27.26	43.16	6.74	6.23	4.61	-2.88	-1.37	-1.51	73.99	46	0
2000	190	14	346.97	25.33	12.19	50.24	24.59	39.86	8.27	7.19	4.89	-2.89	-1.4	-1.48	75.4	46.05	0
2000	190	15	329.8	22.92	344.06	21.87	349.22	39.7	7.37	6.28	3.74	-2.91	-1.34	-1.57	76.21	46.5	0
2000	190	16	306.49	14.35	322.21	17.24	345.59	60.12	12.54	11.39	4.47	-3.38	-1.47	-1.91	77.74	46.13	0
2000	190	17	304.64	8.67	316.59	11.39	350.47	57.02	12.73	11.35	3.72	-3.02	-1.47	-1.55	77.34	45.97	0

2000	190	18	301.06	7.81	308.3	13.31	241.57	63.84	9.93	7.78	2.53	-2	-1.23	-0.77	76.08	47.07	0
2000	190	19	285.7	4.22	288.96	4.94	246.75	36.1	10.23	7.89	2.23	1.89	-0.02	1.91	71.68	50.13	0
2000	190	20	289.8	25.04	357.8	52.82	49.07	63.22	7.87	3.54	1.97	1.61	1.11	0.5	69.73	49.85	0
2000	190	21	300.36	15.89	18.21	26	58.4	14.49	7.53	4.03	2.44	2.91	0.9	2.01	66.85	51.05	0
2000	190	22	272.46	15.39	6.09	34.53	47.3	8.97	5.55	2.88	2.07	3.88	1.44	2.45	64.69	50.21	0
2000	190	23	305.93	25.38	41.23	41.51	31.39	11.46	3.89	3.38	2.65	4.24	1.63	2.61	63.16	50.31	0
2000	191	0	254.65	16.96	150.17	42.96	59.56	24.39	3.6	1.98	2.06	4.62	2.6	2.03	61.62	50.08	0
2000	191	1	260.39	21.89	73.41	34.38	25.56	13.51	3.66	2	1.84	5.54	2.94	2.6	60.38	50.22	0
2000	191	2	122.53	41.25	36.37	26.7	1.3	12.55	2.59	3.59	1.85	4.49	2.22	2.28	59.36	50.2	0
2000	191	3	124.15	14.09	27.81	17.29	3.19	24.95	3.38	2.67	1.8	3.18	2.64	0.54	59.41	50.92	0
2000	191	4	175.16	28.18	13.81	8.5	19.22	11.14	1.53	3.69	2.64	3.1	2.12	0.98	59.64	51.3	0
2000	191	5	195.61	10.99	344.83	29.55	16.33	9.09	3.13	1.84	1.38	2.18	1	1.18	59.04	50.86	0
2000	191	6	210.45	21.2	43.62	43.68	36.75	24.71	2.11	2.08	2.49	0.21	0.89	-0.68	61.68	51.44	0
2000	191	7	169.14	16.49	176.16	19.2	180.09	16.55	3.42	3.29	2.8	-2.34	-0.89	-1.45	66.08	52.49	0
2000	191	8	156.29	14.38	165.45	16.04	179.46	18.53	4.45	4.45	3.93	-2.69	-1.06	-1.63	69.83	53.65	0
2000	191	9	143.54	17.27	155.38	22.44	167.52	32.38	5.85	5.51	4.27	-3.12	-1.25	-1.88	74.14	55	0
2000	191	10	186.78	17.51	198.68	20.99	183.16	29.2	9.21	8.25	5.9	-3.19	-1.29	-1.9	77.52	53.87	0
2000	191	11	203.56	12.13	215.22	16.33	201.3	23.28	13.79	12.05	7.46	-3.59	-1.49	-2.11	79.27	54.1	0
2000	191	12	204.69	11.2	216.31	14.43	197.3	22.34	14.25	12.32	7.84	-3.18	-1.35	-1.83	79.79	54.2	0
2000	191	13	202.4	11	214.62	14.06	197.73	20.58	13.77	12.24	7.21	-2.72	-1.25	-1.47	80.34	55.58	0
2000	191	14	211.37	8.12	222.87	10.18	196.37	21.94	14.46	12.77	6.54	-2.06	-1.13	-0.94	80.29	54.78	0
2000	191	15	208.36	6.1	217.52	7.22	190.63	15.17	12.4	10.9	5.6	-1.53	-1.06	-0.47	79.21	55.6	0
2000	191	16	197.8	5.2	208.19	7.48	186.46	10.94	11.03	8.79	3.88	-0.42	-0.84	0.42	77.16	57.26	0
2000	191	17	192.62	6.68	216.67	11.17	240.76	20.04	12.16	7.87	2.22	1.92	0.2	1.72	74.7	60.7	0
2000	191	18	201.12	5.85	209.87	8.72	185.88	14.12	14.74	11.48	4.86	0.31	-0.51	0.82	75.8	59.09	0
2000	191	19	196.45	6.24	205.14	7.88	195.4	17.49	12.84	9.98	4.56	-0.2	-0.5	0.29	75.24	58.85	0
2000	191	20	196.98	5.7	214.07	7.29	200.21	19.21	12.39	8.2	2.65	1.24	0.12	1.12	74.2	59.58	0
2000	191	21	204.55	4.05	223.68	5.55	189.88	15.52	13.55	8.76	2.25	1.49	-0.11	1.6	72.39	61.33	0
2000	191	22	208.06	4.48	211.94	5.96	180.43	11.56	17.65	12	5.39	0.99	0.16	0.83	72.92	61.07	0
2000	191	23	199.86	5.22	206.23	7.27	188.69	11.97	16.8	11.81	6.16	-0.5	-0.57	0.07	73.98	60.73	0
2000	192	0	204.78	2.63	209.28	6.08	187.66	12.15	17.59	13.79	7.17	0.21	0.01	0.19	73.66	61.27	0
2000	192	1	201.83	4.55	197.1	5.7	177.85	10.23	13.93	10.75	4.45	0.71	-0.04	0.75	72.67	61.12	0
2000	192	2	177.99	6.65	183.61	7.07	178.53	8.28	9.23	7.24	1.75	0.02	-0.89	0.91	72.77	61.82	0
2000	192	3	186.11	4.03	192.25	5.08	193.54	13.19	12.12	10.24	3.94	0.32	-0.49	0.81	72.58	62.86	0
2000	192	4	212.17	9.28	211.01	9.41	186.02	17.47	13.62	11.15	5.63	-0.34	-0.54	0.2	71.97	62.86	0
2000	192	5	225.05	16.46	215.33	25.45	179.62	21.62	9.84	6.53	2.42	-0.47	-0.57	0.1	70.94	63.97	0
2000	192	6	178.78	15.9	170.21	9.38	158.9	25.68	7.34	6.59	2.71	-1.2	-0.82	-0.39	71.9	64.79	0
2000	192	7	251.9	20.21	254.94	27.22	209.36	51.96	12.51	10.04	4.43	-2.04	-1.13	-0.91	75.14	64.6	0
2000	192	8	272.35	10.75	282.38	14.57	252.77	55.08	16.3	14.77	5.34	-2.71	-1.36	-1.35	77.97	63.38	0
2000	192	9	275.54	11.92	285.74	14.42	254.67	50.15	14.13	13.26	5.15	-3.43	-1.48	-1.94	80.78	62.96	0
2000	192	10	269.93	14.47	280.2	17.13	248.43	49.77	13.16	11.49	4.94	-3.53	-1.54	-1.98	82.63	63.25	0
2000	192	11	264.67	13.93	279.05	18.85	250.69	46.56	13.57	11.9	5.37	-3.48	-1.53	-1.95	84.17	60.96	0
2000	192	12	279.75	16.97	291.8	21.59	271.29	61.26	14.51	12.57	4.98	-3.25	-1.37	-1.88	85.94	59.1	0
2000	192	13	273.09	17.67	283.43	18.82	251.24	49.72	15.79	13.72	5	-3.4	-1.5	-1.9	87.12	58.83	0
2000	192	14	282.75	9.45	294.59	12.05	256.87	51.34	14.75	12.74	4.22	-2.55	-1.32	-1.23	86.18	58.57	0
2000	192	15	285.94	12.53	294.81	15.19	255.51	38.43	10.66	8.89	3.06	-2.12	-1.2	-0.91	85.2	58.84	0
2000	192	16	281.74	9.45	287.91	12.74	254.24	35.49	11.76	9.24	3.19	-1.71	-1.07	-0.64	83.83	57.97	0
2000	192	17	270.83	7.52	274.7	8.74	245.68	25.52	10.5	8.68	3.02	-1.2	-0.82	-0.38	82.43	57.61	0
2000	192	18	294.48	9.73	304.71	13.11	309.26	55.13	13.43	11.32	3.14	-1.32	-1.08	-0.24	82.06	56.35	0

2000	192	19	320.88	11.87	332.47	14.87	350.7	53.25	14.97	13.32	5.18	-1.77	-1.21	-0.57	81.26	54.26	0
2000	192	20	321.34	11.85	331.18	13.31	355.78	45.01	14.45	13.61	5.28	-1.9	-1.22	-0.68	78.79	53.11	0
2000	192	21	308.75	8.92	320.23	10.33	350.3	64.5	14.66	12.73	3.83	-1.75	-1.24	-0.51	76.36	52.75	0
2000	192	22	316.39	9.83	330.38	11.18	5.21	38.4	15.2	13.9	4.86	-1.8	-1.16	-0.64	74.28	52.96	0
2000	192	23	321.2	10.25	337.01	12.31	9.69	36.44	15.07	13.23	5.74	-1.77	-1.11	-0.66	72.88	53.06	0
2000	193	0	334.42	12.07	348.05	24.41	12.35	41.41	11.78	9.48	3.89	-1.38	-0.93	-0.45	71.81	52.81	0
2000	193	1	335.04	9.47	349.22	16.37	7.53	40.47	9.39	6.96	2.51	-0.64	-0.75	0.11	70.11	52.91	0
2000	193	2	341.25	10.85	8.24	22.52	44.16	35.51	6.65	4.65	2	0.43	-0.28	0.71	67.13	53.3	0
2000	193	3	347.02	13.2	19.03	13.41	64.65	15.87	7.46	5.13	2.1	0.34	-0.45	0.8	65.7	53.27	0
2000	193	4	345.57	11.29	16.04	11.89	32.86	20.15	9.26	7.35	3.24	0.24	-0.47	0.7	65.29	53.22	0
2000	193	5	349.27	5.71	5.58	9.84	10.48	17.57	10.66	8.82	4.72	-0.8	-0.52	-0.28	66.06	53.22	0
2000	193	6	357.66	15.45	29.1	16.89	34.55	20.57	7.05	5.87	4.18	-1.83	-0.96	-0.87	66.7	52.83	0
2000	193	7	8.98	18.4	30.88	19.27	33.81	20.19	6.67	5.76	4.2	-2.44	-1.26	-1.18	69.26	51.42	0
2000	193	8	351.68	8.29	1.9	14.13	7.52	19.95	15.54	13.69	7.79	-3	-1.34	-1.66	71.78	48.87	0
2000	193	9	356.25	8.78	5.8	14.2	4.86	19.29	12.5	11.54	7.26	-3.29	-1.44	-1.85	73.18	48.25	0
2000	193	10	357.63	9.37	7.96	12.82	5.62	20.91	12.09	10.06	6.9	-3.68	-1.71	-1.98	75.03	47.22	0
2000	193	11	358.58	17.07	5.55	21.97	8.89	26.96	8.52	7.63	5.45	-3.36	-1.56	-1.81	76.25	46.87	0
2000	193	12	332.51	22.48	340.07	26.99	354.11	57.71	8.63	7.72	5.03	-3.74	-1.64	-2.1	78.27	46.81	0
2000	193	13	311.05	21.43	320.67	22.29	335.58	56.54	8.01	7.19	3.92	-3.71	-1.59	-2.12	79.44	46.84	0
2000	193	14	310.09	15.75	321.49	20.59	337.37	54.28	8.32	7.23	3.86	-3.3	-1.51	-1.79	79.68	47.76	0
2000	193	15	324.39	22.2	331.51	26.75	345.44	44.05	7.56	6.69	4.19	-3.16	-1.48	-1.68	80.13	48.49	0
2000	193	16	316.12	11	328.5	13.97	0.04	48.66	11.94	11.19	4.27	-2.51	-1.26	-1.25	79.56	47.85	0
2000	193	17	324.07	9.92	335.66	10.73	3.53	29.02	12.43	11.11	4.43	-2.13	-1.13	-1.01	79.18	47.27	0
2000	193	18	313.76	8.41	324.97	12.05	1.09	50.07	12.59	10.86	3.64	-2.04	-1.21	-0.83	78.76	47.16	0
2000	193	19	319.79	14.66	324.71	13.73	354.82	43.46	11.79	10.51	3.66	-1.47	-1.16	-0.32	77.08	46.42	0
2000	193	20	330.86	7.07	339.42	8.69	1.56	32	14.53	12.45	4.12	-1.34	-0.98	-0.36	75.24	46.75	0
2000	193	21	328.67	5.53	340.89	8.05	9.7	26.12	15.33	13.14	4.65	-1.43	-0.96	-0.47	73.72	46.06	0
2000	193	22	331.02	10.45	356.41	16	29.49	22.94	10.94	7.84	3.31	-0.07	-0.49	0.42	70.67	46.68	0
2000	193	23	339.19	10.88	7.32	10.83	19.5	12.4	9.59	7.19	4.14	-0.16	-0.47	0.31	69.5	46.78	0
2000	194	0	347.48	10.09	9.11	10.09	17	13.09	12.5	10.32	6.11	-0.3	-0.56	0.27	68.51	47.14	0
2000	194	1	355.42	10.87	10.58	9.89	14.37	14.77	16.66	13.07	7.48	-1.11	-0.78	-0.33	68.03	47.75	0
2000	194	2	354.14	7.81	7.99	9.18	13.27	15.35	14.09	11.73	6.64	-1.61	-0.97	-0.64	67.11	48.15	0
2000	194	3	352.59	6.29	4.33	7.8	10.59	16.99	12.86	10.57	5.47	-1.46	-0.88	-0.59	65.9	48.59	0
2000	194	4	352.03	6.78	7.45	8.19	9.41	14.9	12.82	10.34	5.34	-1.18	-0.77	-0.41	64.83	48.29	0
2000	194	5	351.28	8.54	10.72	12.12	16.73	19.57	10.34	8.07	4.52	-1.47	-0.89	-0.58	64.39	49.36	0
2000	194	6	355.46	10.68	15.82	11.49	17.71	17.76	10.42	8.69	5.92	-2.12	-1.01	-1.11	65.33	50.22	0
2000	194	7	358.9	9.76	10.78	11.64	15.08	17.08	12.09	10	6.73	-2.88	-1.38	-1.49	67.54	50.13	0
2000	194	8	355.02	8.72	4.03	13.14	5.48	19.84	12.76	11.49	6.86	-3.27	-1.45	-1.82	69.67	49.67	0
2000	194	9	346.58	7.86	355.82	11.09	2.44	21.78	15.01	13.85	6.92	-3.45	-1.37	-2.08	71.33	49.86	0
2000	194	10	341.81	7.18	351.52	12.03	359.59	26.79	14.72	13.9	6.89	-3.6	-1.38	-2.22	73.35	49.51	0
2000	194	11	335.43	7.88	346	10.16	0.45	32.52	13.89	13.19	6.2	-3.9	-1.44	-2.46	75.34	49.53	0
2000	194	12	347.42	10.61	357.88	14.45	4.33	23.21	12.23	11.23	6.91	-3.77	-1.56	-2.21	76.98	48.46	0
2000	194	13	342.15	13.52	350.22	18.77	0.35	33.27	11.51	10.58	6.19	-3.85	-1.68	-2.17	78.7	47.46	0
2000	194	14	341.73	15.64	351.03	17.13	359.96	40.5	11.55	10.41	5.72	-3.63	-1.51	-2.13	79.58	46.89	0
2000	194	15	347.88	9.43	359.04	11.63	2.86	21.51	12.95	11.44	6.46	-3.45	-1.46	-1.98	80.46	47.07	0
2000	194	16	350.86	10.9	1.19	13.45	1.21	23.17	9.76	8.71	5.38	-3.08	-1.37	-1.72	80.73	47.62	0
2000	194	17	349.34	13.98	358.83	15.97	2.95	22.7	6.95	6.21	3.98	-2.6	-1.3	-1.31	80.63	48.33	0
2000	194	18	313.46	14.31	313.43	13.84	298.12	31.97	5	4.79	1.99	-1.4	-1.01	-0.4	79.39	51.18	0
2000	194	19	233.74	10.5	273.19	42.43	309.69	13.77	3.02	2.68	1.26	2.21	-0.13	2.34	75.04	54.83	0

2000	194	20	241.56	14.38	26.54	15.7	16.95	10.56	2.41	3.55	3.01	2.95	1.4	1.55	72.18	55.32	0
2000	194	21	242.31	14.91	18.22	3.98	16.84	9.64	1.89	4.6	3.31	4.26	2.67	1.59	69.63	55.53	0
2000	194	22	204.06	17.58	20.09	5.18	22.4	10.66	2.14	4.39	3.1	5	2.97	2.03	67.32	55.57	0
2000	194	23	176.05	15.79	15.35	19.62	23.21	29.14	2.82	4.11	1.99	4.58	2.38	2.19	65.22	55.16	0
2000	195	0	223.64	10.16	8.11	12.77	14.69	11.4	2.61	2.9	2.63	4.57	2.3	2.28	64.57	54.86	0
2000	195	1	200.66	22.38	19.96	5.37	27.4	11.02	1.63	5.09	3.28	4.52	2.2	2.33	63.05	54.25	0
2000	195	2	176.28	18.39	13.02	6.92	52.27	21.52	1.78	3.79	1.79	4.18	1.69	2.48	61.79	53.48	0
2000	195	3	149.63	36.77	0.18	11.03	10.65	10.3	1.43	2.92	2.23	3.79	1.41	2.39	61.3	53.83	0
2000	195	4	86.64	35.28	22.79	5.71	24.36	8.39	1.29	4.56	3.68	3.52	1.58	1.94	60.62	53.64	0
2000	195	5	58.73	10.86	19.58	3.89	28.35	8.92	2.57	6.11	5.42	3.3	2.15	1.16	60.92	53.62	0
2000	195	6	22.95	9.94	29.97	6.78	29.79	12.52	4.43	6.13	4.87	1	1.33	-0.32	63.47	54.04	0
2000	195	7	25.04	13.14	44.51	15.34	30.43	17.08	3.66	3.96	3.7	-1.75	-0.67	-1.08	67.14	54.59	0
2000	195	8	54.9	31.28	29.68	32.79	8.53	23.21	2.52	2.56	2.58	-2.38	-1.09	-1.28	71.38	55.02	0
2000	195	9	178.88	47.63	235.7	49.37	272.18	49.13	2.62	2.86	2.91	-2.43	-1.01	-1.43	75.12	57.13	0
2000	195	10	159.32	18.63	182.26	14.34	191.35	14.46	4.09	4.34	4.37	-2.8	-1.23	-1.57	78.29	57.11	0
2000	195	11	151.7	11.21	163.26	13.65	175.12	23.53	5.91	5.62	4.62	-2.97	-1.17	-1.8	80.18	56.97	0
2000	195	12	164.31	18.63	173.64	17.85	176.58	23.32	6.81	6.41	4.4	-2.82	-1.15	-1.67	81.31	54.75	0
2000	195	13	161.63	18.92	172.88	20.15	183.36	24.31	7.15	6.87	5.3	-3.34	-1.35	-1.99	82.71	53.06	0
2000	195	14	161.42	9.23	167.83	12.6	174.34	25.04	9.21	7.92	4.94	-3.17	-1.18	-1.98	82.94	53.61	0
2000	195	15	200.96	17.05	212.09	22.35	191.61	25.41	9.94	8.38	5.63	-3.61	-1.53	-2.08	84.58	51.47	0
2000	195	16	194.25	20.26	204.35	20.47	191.36	25.66	11.88	9.95	6.1	-2.82	-1.27	-1.55	82.91	52.81	0
2000	195	17	160.73	13.45	170.23	13.82	170.29	23.97	11.94	11.33	6.12	-2.14	-1.06	-1.08	80.43	53.88	0
2000	195	18	150.17	4.96	160.07	9.33	166.06	27.95	13.66	10.55	4.61	-1.57	-0.89	-0.67	78.91	52.1	0
2000	195	19	149.49	6.28	155.51	8.35	160.12	26	9.79	7.29	2.66	-0.99	-0.77	-0.22	76.51	54	0
2000	195	20	181.46	6.91	191.22	9.46	180.91	22.2	13.6	10.95	5.74	-0.89	-0.83	-0.06	76.52	51.83	0
2000	195	21	182.79	4.85	191.73	6.24	185.89	11.43	14.05	11.68	5.92	-0.68	-0.87	0.19	75.66	49.94	0
2000	195	22	183.63	6.21	194.27	5.88	183.87	9.5	10.87	9.01	4.2	-0.6	-0.97	0.37	74.05	49.13	0
2000	195	23	181.74	6.75	188.99	5.99	178.13	7.06	8.73	7.04	2.49	-0.11	-1	0.9	71.92	49.66	0
2000	196	0	190.97	8.6	191.95	9.21	172.68	10.28	7.31	5.88	2.61	-0.8	-1.07	0.27	70.79	49.01	0
2000	196	1	173.95	10.49	171.96	7.08	160.4	10.42	5.65	5.06	1.68	-0.3	-1.03	0.73	69.17	49.21	0
2000	196	2	173.46	5.71	189.88	6.49	133.01	14.2	5.62	5.16	1.25	0.08	-0.85	0.93	68.17	49.71	0
2000	196	3	178.81	7.69	243.62	56.2	42.38	31.44	5.46	2.23	1.51	0.88	-0.17	1.05	66.32	52.8	0
2000	196	4	180.27	8.66	231.9	38.45	354.36	17.86	4.92	1.79	1.64	1.09	-0.28	1.38	64.95	54.26	0
2000	196	5	189.41	9.92	287.34	32.85	356.49	17.81	4.15	2.14	1.6	0.29	-0.19	0.47	65.17	54.49	0
2000	196	6	195.04	17.47	259.51	24.81	10.83	39.45	4.26	2.26	1.41	-0.48	-0.18	-0.31	66.34	55.6	0
2000	196	7	195.73	36.11	203.09	46.21	153.45	36.89	2.69	2.47	2.29	-2.2	-1.05	-1.15	69.3	54.78	0
2000	196	8	169.11	19.77	190.19	18.85	185.27	17.53	4.39	4.1	3.09	-2.69	-1.21	-1.49	71.03	57.57	0
2000	196	9	153.35	14.58	170.57	15.36	183.31	20.57	5.3	5.42	4.33	-2.9	-1.28	-1.62	73.44	59.83	0
2000	196	10	162.39	10.16	175.15	10.68	182.18	18.88	8.13	8.15	6.12	-3.16	-1.31	-1.84	75.8	59.96	0
2000	196	11	164.65	6.57	175.46	9.18	181.66	15.76	9.32	9.22	6.16	-2.66	-1.2	-1.46	76.28	59.83	0
2000	196	12	169.81	7.07	180.83	10.66	180.13	17.34	12.2	10.87	6.41	-2.6	-1.21	-1.39	77.41	59.46	0
2000	196	13	153.28	7.16	166.44	9.76	173.07	22.01	13.35	12.11	7.59	-3.02	-1.31	-1.72	77.89	58.36	0
2000	196	14	165.62	6.96	177.3	10.33	180.84	15.77	17.08	15.25	8.67	-1.7	-0.91	-0.79	69.81	60.67	0.08
2000	196	15	157.66	6.42	169.33	9.99	176.53	20.38	12.37	12.65	7.55	-2.66	-1.21	-1.45	70.73	61.38	0
2000	196	16	146.92	6.28	154.48	8.88	164.45	29.64	10.04	8.95	4.23	-2.63	-1.12	-1.51	71.74	61.42	0
2000	196	17	146.02	5.93	158.41	9.34	170.18	28.65	13.91	10.91	5.69	-2.36	-1.21	-1.15	73.06	60.73	0
2000	196	18	150.51	6.83	162.35	10.11	171.71	23.53	11.81	9.4	4.51	-1.62	-1.05	-0.57	72.06	59.27	0
2000	196	19	159.35	4.78	169.95	7.91	175.73	19.36	10.17	9.8	4.93	-1.12	-0.99	-0.13	71.55	58.02	0
2000	196	20	141.13	5.2	148.57	9.56	148.32	31.64	10.2	7.49	2.34	-0.87	-0.77	-0.09	70.17	57.75	0

2000	196	21	142.07	5.33	152.89	9.2	167.19	31.14	10.28	7.49	2.52	-1.15	-0.89	-0.26	70.08	59.11	0
2000	196	22	139.32	5.05	146.01	10.05	119.21	30.07	10.86	7.26	1.94	-0.21	-0.32	0.11	68.61	61.49	0.04
2000	196	23	152.02	6.2	158.52	8.68	160.98	31.15	10.54	7.85	2.54	-0.11	-0.55	0.44	68.97	62.77	0
2000	197	0	162.03	7.4	167.44	11.28	149.09	25.12	9.07	6.92	2.17	0.02	-0.64	0.66	69.08	62.63	0
2000	197	1	142.42	5.63	149.44	9.11	151.91	38.54	11.51	9.04	2.71	-0.19	-0.52	0.34	68.42	61.05	0
2000	197	2	129.33	6.63	137.38	10.72	134.43	28.81	11.47	8.41	2.1	-0.34	-0.52	0.18	67.53	60.57	0
2000	197	3	114.62	10.86	127.31	18.27	106.84	45.55	11.02	6.43	2.1	-1.09	-0.74	-0.35	67.61	61.36	0.09
2000	197	4	105.19	7.06	110.31	9.33	75.88	30.9	16.95	11.53	3.29	-0.54	-0.45	-0.1	67.39	62.02	0.03
2000	197	5	110.66	7.94	113.47	9.49	77.13	38.83	18.87	13	3.74	-0.37	-0.39	0.02	68	62.7	0
2000	197	6	147.06	8.94	154.78	12.17	153.6	38.8	14.47	11.32	4.58	-1.02	-0.75	-0.27	67.25	62.19	0.16
2000	197	7	147.27	11.23	155.28	14.48	162.8	29.24	9.97	7.66	2.99	-1.29	-0.74	-0.55	66.52	62.08	0.26
2000	197	8	134.2	7.36	146.98	11.78	165.84	37.21	14.98	10.9	4.05	-1.07	-0.7	-0.37	67.4	62.71	0.13
2000	197	9	129.04	9.28	141.12	13.81	153.74	44.26	19.62	14.43	5.33	-1.09	-0.8	-0.29	67.04	61.23	0.03
2000	197	10	131.19	8.86	145.79	13.42	157.82	40.12	20.5	16.31	6.8	-1.09	-0.87	-0.22	66.88	59.89	0
2000	197	11	137.81	8.54	151.07	12.87	168.18	32.83	14.3	11.27	5.08	-1.75	-1.03	-0.72	68.61	61.08	0
2000	197	12	146.52	7.67	159.64	9.63	171.29	25.62	16.61	13.66	7.28	-1.73	-1.09	-0.64	70.15	60.68	0
2000	197	13	144.8	7.36	156.11	10.99	164.2	29.37	12.28	9.94	4.68	-1.5	-0.93	-0.57	68.6	60.85	0
2000	197	14	148.66	6.71	162.34	9.82	172.66	23.56	13.15	10.74	5.53	-1.32	-0.86	-0.46	67.97	61.76	0.12
2000	197	15	131.46	14.85	134.91	15.27	131.27	30.17	8.53	7.06	2.96	-1.34	-0.92	-0.43	68.85	61.74	0
2000	197	16	99.91	7.6	93.23	8.35	68.12	17.39	8.01	6.6	2.71	-1.23	-0.82	-0.41	68.75	61.37	0
2000	197	17	108.51	9.18	96.31	11.68	53.99	23.91	9.16	5.98	2.53	-1.07	-0.72	-0.35	68.81	60.7	0
2000	197	18	112.82	6.02	99.76	7.85	49.2	17.72	10.96	7.26	2.49	-0.35	-0.35	0	68.57	60.88	0
2000	197	19	99.67	5.95	92.39	6.58	47.21	16.22	10.48	7.71	2.82	-0.68	-0.65	-0.03	68.59	61.12	0
2000	197	20	111.59	7.55	107.92	11.52	59.13	29.32	10.34	6.39	1.83	-1	-0.72	-0.29	68.24	61.36	0
2000	197	21	111.01	5.47	111.21	8.57	91.73	38.57	13.25	8.57	2.33	-0.55	-0.42	-0.13	67.85	60.68	0
2000	197	22	98.05	6.67	94.74	9.51	60.4	22.96	12.29	7.72	2.59	-0.86	-0.42	-0.44	67.64	61.08	0
2000	197	23	85.87	4.49	88.14	9.17	59.28	22.04	12.73	8.33	3.6	-1.45	-0.75	-0.7	66.89	60.58	0
2000	198	0	86.18	4.33	90.91	8.25	66.23	21.01	13.87	9.44	3.76	-1.19	-0.66	-0.53	66.5	60.28	0
2000	198	1	94.27	5.43	100.97	9.71	72.65	39.07	12.37	8.47	2.75	-1.26	-0.77	-0.48	66.87	60.4	0
2000	198	2	116.11	6.46	114.72	9.87	85.08	29.57	11.49	7.4	2.09	-0.84	-0.58	-0.26	66.86	60.27	0
2000	198	3	141.06	6.35	141.57	9.84	130.68	32.15	10.21	8.59	2.44	-0.06	-0.37	0.31	66.5	60.8	0
2000	198	4	186.09	8	194.98	10.72	184.85	13.4	8.48	7.44	3.85	-1.29	-0.96	-0.33	67.64	61.56	0
2000	198	5	179.82	10.58	197.81	10.75	181.18	15.49	6.37	5.44	1.96	-1.13	-0.89	-0.24	67.24	61.36	0
2000	198	6	167.05	7.15	181.46	9.73	176.63	14.98	7.26	6.59	3.71	-1.79	-1.07	-0.72	68.07	61.59	0
2000	198	7	168.02	9.24	182.48	11.67	184.34	16.36	7.83	7.21	4.79	-2.32	-1.17	-1.15	69.22	61.7	0
2000	198	8	147.67	10.36	162.73	12.88	178.57	18.89	7.5	6.9	4.79	-2.42	-1.24	-1.18	69.83	62.03	0
2000	198	9	155.94	9.06	169.59	10.75	176.56	19.62	7.17	6.81	4.48	-2.52	-1.22	-1.29	70.98	62.05	0
2000	198	10	158.68	11.38	170.58	14.88	177.18	24.35	6.58	6.69	4.97	-2.88	-1.24	-1.64	73.52	61.86	0
2000	198	11	156.87	12.16	169.14	15.57	179.16	24.07	6.88	6.85	4.98	-2.96	-1.19	-1.77	75.6	61.26	0
2000	198	12	146.57	11.62	158.65	14.43	167.87	32.57	6.9	6.44	4.51	-3.2	-1.25	-1.95	77.01	61.02	0
2000	198	13	147.3	12.11	160.97	14.74	169.8	27.57	6.26	5.98	4.57	-3.18	-1.32	-1.86	77.96	60.83	0
2000	198	14	142.01	11.73	152.14	16.42	163.94	37.93	6.74	6.68	4.3	-3.34	-1.26	-2.08	79.39	60.65	0
2000	198	15	149	8.01	163.31	10.54	174.74	22.24	8.29	7.88	5.5	-3.11	-1.34	-1.77	79.5	60.91	0
2000	198	16	148.77	4.9	161.53	9.55	169.4	23.12	11.66	9.41	5.13	-2.23	-1.1	-1.13	77.82	61.35	0
2000	198	17	167.08	8.76	176.42	10.91	178.56	18.57	13.93	12.76	6.44	-1.57	-1.03	-0.54	76.46	60.28	0
2000	198	18	213.02	13.33	212.61	19.05	187.39	32.47	11.57	9.32	5.33	-1.48	-1	-0.48	71.94	61.17	0
2000	198	19	208.66	14.68	209.92	16	187.36	24.58	6.72	6.1	3.26	-1.19	-0.98	-0.21	70.26	60.83	0
2000	198	20	244.19	12.42	241.19	20.9	216.31	36.17	5.03	4.31	1.71	-0.35	-0.53	0.18	68.77	59.67	0
2000	198	21	52.69	49.03	133.04	43.54	302.09	50.92	1.84	1.79	1.42	-0.52	-0.43	-0.09	68.34	60.39	0

2000	198	22	80.87	44.33	45.76	27.46	109.3	16.67	2.18	2.65	1.26	0.07	-0.36	0.43	67.44	60.82	0
2000	198	23	82.02	19.46	181.09	46.36	179.52	45.81	1.74	1.88	1.19	0.11	-0.2	0.31	66.76	60.73	0
2000	199	0	347.2	13.7	16.4	11	25.18	17.27	2.83	4.75	3.54	0.11	0.28	-0.17	67.08	60.56	0
2000	199	1	19.84	10.72	24.64	8.05	30.34	13.86	3.95	6.17	4.52	0.37	0.51	-0.14	66.51	60.41	0
2000	199	2	357.44	9.37	18.49	8.79	25.2	13.9	3.71	4.48	3.75	-0.31	-0.07	-0.24	66.59	60.15	0
2000	199	3	352.35	9.65	23.08	7.32	33.52	12.77	4.64	7.3	5.2	0.84	0.55	0.29	66.15	59.9	0
2000	199	4	6.93	11.88	18.37	12.33	32.47	25.02	4.52	5.65	3.37	0.91	0.91	0	65.61	59.84	0
2000	199	5	358.85	28.99	33.11	17.26	55.41	30.53	2.52	4.12	2.82	0.2	0.16	0.04	65.24	59.98	0
2000	199	6	58.87	31.13	42.32	17.64	35.75	18.1	2.49	3.04	2.25	-1.58	-0.7	-0.88	66.18	60.28	0
2000	199	7	44.08	23.38	18.06	20.22	7.85	20.06	2.38	2.8	2.51	-2.06	-0.95	-1.1	66.96	61.34	0
2000	199	8	315.25	60.76	355.79	46.36	345.1	55.25	2.4	2.72	2.06	-2.37	-1.17	-1.2	68.8	62.65	0
2000	199	9	196.64	27.25	232.25	27.17	231.16	33.61	3.68	3.53	3.08	-2.33	-0.9	-1.43	73.29	62.56	0
2000	199	10	174.68	19.99	190.57	20.89	192.56	24.99	5.54	5.74	4.66	-2.93	-1.16	-1.77	76.49	61.84	0
2000	199	11	167.63	13.05	183.38	14.75	189.53	21.29	6.72	6.83	5.58	-2.94	-1.28	-1.66	77.92	61.15	0
2000	199	12	163.03	21.72	177.51	22.31	190.59	25.48	5.17	5.41	4.61	-2.88	-1.18	-1.7	79.23	61.66	0
2000	199	13	156.69	18.76	172.35	23.75	182.3	32.05	5.49	5.57	4.13	-3.17	-1.29	-1.89	80.52	61.89	0
2000	199	14	147.16	8.59	159.31	11.13	170.97	25.6	11.5	10.21	6.58	-3.55	-1.4	-2.16	79.51	64.18	0
2000	199	15	148.97	6.85	161.49	9.63	173.51	22.54	12.51	11.22	7.01	-2.87	-1.29	-1.58	77.97	64.1	0
2000	199	16	147.16	6.2	162.29	10.6	176.04	22.35	11.06	8.62	3.82	-1.41	-0.96	-0.45	75.21	65.07	0.02
2000	199	17	152.18	6.28	165.01	9.39	171.59	21.67	9.95	8.59	4.57	-1.86	-1	-0.86	75.3	66.39	0
2000	199	18	149.25	10.18	166.41	13.45	173.68	20.2	7.46	6.66	4.14	-1.93	-1.02	-0.91	73.18	65.42	0
2000	199	19	159	9.54	167.52	11.58	174.1	22	7.59	5.87	2.66	-1.17	-0.79	-0.38	72.71	64.87	0
2000	199	20	152.82	6.9	164.04	10.38	170.21	18.3	7.19	5.88	2.84	-1.62	-1	-0.61	72.26	63.54	0
2000	199	21	166.82	6.26	178.83	8.61	182.73	13.94	8.69	7.2	3.64	-1.52	-1.04	-0.48	71.99	63.62	0
2000	199	22	175.75	8.5	197.83	11.51	202.06	13.18	6.91	5.38	2.89	-1.56	-0.93	-0.63	71.94	64.23	0
2000	199	23	179.8	8.56	205.62	11.01	206.93	19.23	4.83	4.12	1.95	-1.55	-1	-0.56	71.7	64.61	0
2000	200	0	190.62	7.3	190.96	9.9	179.64	15.01	8.49	6.5	2.92	-1.3	-0.92	-0.38	71.66	64.37	0
2000	200	1	179.42	5.84	189.56	8.41	194.12	16.49	7.18	5.84	2.14	-0.79	-0.92	0.14	70.71	64.11	0
2000	200	2	179.35	4.6	192.8	5.22	190.06	11.86	6.91	6.55	1.76	-0.31	-0.85	0.54	69.55	62.13	0
2000	200	3	186.45	4.92	216.44	5.99	202.52	15.05	8.37	7.71	3.45	-0.56	-0.5	-0.06	68.94	63.62	0
2000	200	4	186.28	6.28	200.08	7.18	192.96	12.43	7.88	7.48	3.81	-1.2	-0.93	-0.27	68.84	63.21	0
2000	200	5	178.17	5.86	201.79	9.11	196.14	13.39	6.66	5.79	3.08	-1.4	-0.85	-0.54	69.12	62.67	0
2000	200	6	165.26	9.46	182.83	11.05	187.39	17.95	5.99	5.31	3.38	-1.92	-0.92	-1	70.63	62.92	0
2000	200	7	189.03	27.47	192.67	30.9	186.43	36.94	7.84	7.29	4.93	-1.54	-0.77	-0.77	71.3	63.32	0.16
2000	200	8	159.48	11.68	157.7	12.33	166.8	33.85	5.31	4.72	2.76	-1.36	-0.49	-0.87	71.48	65.41	0
2000	200	9	152.63	16.78	163.65	20.33	172.67	27.15	4.56	4.52	3.57	-2.71	-1.16	-1.54	75.11	64.47	0
2000	200	10	154.36	18.35	163.4	26.87	178.97	34.69	5.16	4.5	3.47	-2.79	-1.16	-1.63	79.17	63.32	0
2000	200	11	206.55	15.28	212.22	22.12	194.92	36.29	11.84	9.83	5.46	-2.55	-1.15	-1.4	82.94	62.41	0
2000	200	12	243.33	10.37	254.6	14.09	233.83	38.78	17.06	15.37	6.4	-2.28	-1.04	-1.24	84.27	60.35	0
2000	200	13	258.82	14.19	272.45	17.07	252.78	45.96	15.03	13.15	4.85	-2.46	-1.19	-1.28	84.76	58.15	0
2000	200	14	257.74	10.73	268.52	12.07	249.62	48.85	19.5	17.96	6.02	-2.55	-1.17	-1.38	86.26	55.43	0
2000	200	15	277.84	10.61	290.95	13.69	260.87	55.5	17.75	15.54	5.08	-3.16	-1.47	-1.69	86.44	54.82	0
2000	200	16	275.42	10.8	289.64	14.02	262.43	55.38	15.9	14.6	4.92	-2.82	-1.36	-1.45	86.02	53.03	0
2000	200	17	285.01	13.65	296.44	15.59	267	61.48	11.41	9.99	3.31	-2.44	-1.32	-1.13	85.17	53.3	0
2000	200	18	310.9	7.9	321.38	9.84	348.51	58.19	14.45	13.03	3.66	-1.67	-1.18	-0.48	82.22	54.99	0
2000	200	19	316.82	7.03	331.2	8.29	359.09	43.23	19.26	17.87	5.38	-1.76	-1.14	-0.62	79.38	54.24	0
2000	200	20	318.03	8.78	331.46	10.69	356.87	49.58	20.42	18.71	5.75	-1.86	-1.15	-0.71	76.48	53.76	0
2000	200	21	321.3	10.07	334.85	12.92	1.72	44.54	21.63	20.12	7.19	-2	-1.19	-0.81	73.2	51.2	0
2000	200	22	326.27	9.84	340.93	13.72	2.67	42.06	22.09	19.9	7.24	-1.97	-1.18	-0.79	70.14	49.18	0

2000	200	23	351.71	14.61	3.29	16.16	11.62	25.61	12.6	10.82	6.3	-1.99	-1.18	-0.81	67.52	49.83	0
2000	201	0	356.36	15.08	16.06	20.23	16.63	28.46	9.21	8.09	4.76	-1.69	-1.06	-0.63	65.2	49.91	0
2000	201	1	343.06	18.82	354.73	19.79	5.35	25.85	9.34	8.6	4.5	-1.73	-1.12	-0.61	64.82	49.01	0
2000	201	2	335.41	11.32	347.14	12.34	7.14	22	9.23	8.28	4.21	-1.66	-1.11	-0.56	63.89	48.65	0
2000	201	3	321.34	31.86	354.16	32.25	48.56	19.66	6.27	5.62	3.43	-0.72	-0.68	-0.04	62.27	48.62	0
2000	201	4	250.37	18.39	246.64	18.61	201.14	32.45	5.12	4.95	2.01	-0.28	-0.8	0.52	61.13	49	0
2000	201	5	204.45	30.02	214.44	26.24	172.39	16.21	2.44	3.53	1.67	-0.16	-0.6	0.44	60.99	49.39	0
2000	201	6	357.35	33.09	16.28	36.27	31.78	31.4	2.67	2.96	2.9	-1.88	-0.96	-0.92	62.71	50.97	0
2000	201	7	350.49	20.26	18.51	20.74	22.96	19.45	4.11	4.47	3.97	-2.1	-1.02	-1.08	63.59	50.78	0
2000	201	8	334.51	26.1	3.16	32.27	349.07	41.8	4.72	4.67	3.31	-2.16	-1.08	-1.08	64.95	50.75	0
2000	201	9	294.72	39.82	309.07	40.83	118.44	38.63	2.69	2.78	2.24	-2.29	-1.17	-1.12	65.89	50.62	0
2000	201	10	334.61	33.86	346.3	30.76	12.23	27.49	4.91	4.71	2.71	-2.07	-1.18	-0.89	65.43	51.97	0
2000	201	11	340.02	32.26	6.5	33.18	5.52	48	3.37	3.1	2.34	-1.71	-1.12	-0.59	63.65	54.02	0
2000	201	12	223.7	13.36	230.25	13.12	202.58	19.97	5.01	4.31	2.23	-1.66	-1.05	-0.61	63.19	55.8	0.02
2000	201	13	211.18	14.71	224.76	18.57	209.67	32.91	7.56	6.74	3.39	-1.65	-0.97	-0.68	63.01	55.53	0.01
2000	201	14	221.1	8.82	232.28	12.84	208.56	26.77	6.47	5.69	3.08	-2.18	-1.09	-1.09	64.37	55.76	0
2000	201	15	212.79	11.44	221.7	14.95	194.71	18.99	6.68	6.06	4.03	-2.24	-1.15	-1.08	65.28	54.29	0
2000	201	16	203.41	10.52	212.88	12.21	193.76	18.4	7.06	6.54	4.03	-2.16	-1.15	-1.01	65.62	53.7	0
2000	201	17	199.58	11.77	211.98	13.09	188	14.23	5.03	4.54	2.47	-1.81	-1.1	-0.71	65.25	54.27	0
2000	201	18	195.04	10.16	206.9	11.34	198.96	16.06	5.13	4.7	2.39	-1.69	-1.1	-0.59	64.98	54.42	0
2000	201	19	194.78	10.65	205.21	9.72	185.85	19.38	5	5.15	2.46	-1.36	-1.12	-0.24	64.17	54.63	0
2000	201	20	199.01	19.72	209.23	19.4	173.55	16.36	4.11	4.44	1.98	-1.15	-1.05	-0.1	63.51	54.88	0
2000	201	21	234.21	23.99	232.61	13.22	179.43	18.23	3.86	3.85	1.91	-1.23	-1.03	-0.21	63.16	55.67	0
2000	201	22	226.45	27.24	220.77	29	174.92	12.03	2.77	2.93	1.94	-1.24	-0.9	-0.34	63.18	57.1	0
2000	201	23	16.06	30.37	68.46	35.89	45.68	25.61	2.56	3.44	2.65	-1.29	-0.8	-0.49	62.75	57.19	0
2000	202	0	7.08	8.69	28.42	7.65	37.65	15.03	6.07	5.99	3.72	-1.2	-0.81	-0.39	62.2	56.92	0
2000	202	1	0.44	8.8	31.08	10.25	37.41	16.99	6.45	6.01	3.78	-1.34	-0.76	-0.57	62.09	56.69	0
2000	202	2	357.99	7.4	19.8	8.16	30.24	11.73	9.49	7.81	4.83	-0.87	-0.5	-0.37	61.73	56.47	0
2000	202	3	356.11	9.96	13.76	11.44	30.16	15.12	9.84	7.56	4.31	-0.89	-0.77	-0.12	61.96	56.21	0
2000	202	4	1.87	11.23	21.45	10.45	34.24	12.45	10.36	7.84	4.49	-0.53	-0.52	0	61.18	55.05	0
2000	202	5	358.73	10.91	14.4	11.68	25.95	14.14	11.97	9.72	5.98	-1.4	-0.95	-0.45	62	53.86	0
2000	202	6	354.73	9.39	7.41	12.6	14.28	17.29	12.57	11.11	7.05	-2.3	-1.23	-1.07	62.8	53.44	0
2000	202	7	356.69	10.85	3.36	12.67	9.23	19.48	11.43	10.65	6.53	-2.9	-1.4	-1.5	63.86	53.93	0
2000	202	8	14.75	9.13	22.56	14.43	19.29	18.32	12.09	10.72	7.85	-2.93	-1.42	-1.51	65.86	53.34	0
2000	202	9	6.3	11.06	11.35	14.32	3.06	22.6	9.9	9.36	6.48	-3.05	-1.45	-1.6	67.58	51.62	0
2000	202	10	7.2	13.34	12.11	16.77	2.55	22.66	8.85	7.91	5.35	-2.61	-1.32	-1.29	68.7	50.56	0
2000	202	11	341.85	12.22	346.88	15.84	353.81	29.88	7.55	7.23	4.75	-3.19	-1.45	-1.74	70.15	50.7	0
2000	202	12	352.59	12.28	357.95	17.79	1.16	26.92	7.54	6.67	4.94	-3.18	-1.49	-1.69	71.37	50.49	0
2000	202	13	356.06	17.7	6.49	23.26	9.78	29.64	7.95	7.13	5.2	-3.1	-1.47	-1.63	72.66	49.75	0
2000	202	14	353.92	12.59	2.65	15.27	3.92	27.39	8.85	7.89	5.69	-3.3	-1.5	-1.79	73.73	49.29	0
2000	202	15	357.09	19.15	6.13	27.17	0.5	37.84	7.15	6.39	4.63	-3.06	-1.4	-1.66	74.39	49.54	0
2000	202	16	2.14	22.05	13.43	28.73	10.98	38.79	5.59	5.2	3.86	-2.71	-1.36	-1.36	74.69	49.78	0
2000	202	17	335.21	21.91	346.65	19.56	337.65	39.56	3.58	3.79	2.8	-2.37	-1.23	-1.15	74.67	50.32	0
2000	202	18	345.71	26.15	339.98	19.01	339.77	29.48	2.26	2.2	1.76	-1.67	-1	-0.68	74.03	52.62	0
2000	202	19	12.5	8.97	32.09	18.78	9.14	17.93	2.96	2.86	1.89	0.81	0.01	0.8	70.92	55.68	0
2000	202	20	35.47	7.08	18.35	6.16	19.82	11.66	3.68	5.33	3.93	2.55	1.74	0.81	68.35	55.77	0
2000	202	21	12.41	6.02	15.49	5.12	21.62	8.84	6.14	6.9	5.19	2.89	2.15	0.74	66.22	54.87	0
2000	202	22	5.27	5.33	18.76	5.32	24.44	11.02	4.51	6.16	4.58	4.08	3.89	0.19	64.49	55.27	0
2000	202	23	37.19	6.31	22.46	6.44	30.43	17.83	3.85	5.99	3.7	5.23	4.99	0.24	62.89	55.33	0

2000	203	0	6.59	25.33	23.04	9.96	57.41	36.73	3.74	5.36	2.24	4.17	3.58	0.59	60.95	54.69	0
2000	203	1	358.91	24.82	15.68	5.3	25.9	11.99	2.15	5.9	3.75	3.81	3.16	0.65	60.41	53.83	0
2000	203	2	358.22	14.8	23.02	4.49	30.31	9.94	3.12	8.66	6	4.9	4.32	0.58	59.79	52.86	0
2000	203	3	11.13	5.34	21.59	5.44	29.17	10.21	6.91	8.45	5.57	3.13	3.01	0.11	59.41	52.87	0
2000	203	4	353.78	22.55	20.51	6.36	37.76	14.73	2.48	5.68	3.22	2.55	1.86	0.69	58.32	52.13	0
2000	203	5	328.87	48.15	15.79	7.03	26.17	14.05	2.08	4.68	2.95	1.59	1.3	0.29	58.37	52.56	0
2000	203	6	7.63	9.47	34.99	10.8	28.72	13.29	3.45	4.46	3.92	-0.34	0.57	-0.91	60.37	53.46	0
2000	203	7	38.75	29.12	62.74	24.68	24.12	15.46	2.06	2.61	2.83	-1.91	-0.87	-1.03	63.44	54.45	0
2000	203	8	181.45	64.11	253.55	55.63	259.49	58.51	2.13	2.48	2.26	-2.62	-1.07	-1.56	67.85	56.75	0
2000	203	9	154.46	17.93	176.02	19.44	188.3	25.44	4.14	4.49	4.16	-2.71	-1.16	-1.55	71.66	56.7	0
2000	203	10	157.72	15.47	172.67	18.7	178.74	20.71	5.23	5.41	4.51	-3.18	-1.31	-1.87	75.46	57.38	0
2000	203	11	160.52	18.12	165.47	17.72	169.79	30.19	6.63	6.43	4.61	-3.29	-1.24	-2.05	78.13	56.8	0
2000	203	12	183.39	14.59	192.71	17.05	186.75	22.03	13.09	11.88	7.54	-2.93	-1.2	-1.73	79.95	53.88	0
2000	203	13	201.81	13.29	213.98	17.21	194.28	22.21	12.75	11.22	6.88	-3.05	-1.31	-1.73	80.94	54.16	0
2000	203	14	208.67	8.71	219.86	10.89	198.21	20.49	13.99	12.51	6.35	-2.41	-1.14	-1.27	80.35	54.17	0
2000	203	15	209.37	9.92	221.71	12.72	196.46	26.73	11.46	10.3	5.26	-2.3	-1.17	-1.13	80.51	54.64	0
2000	203	16	177.66	11.55	185.93	15.93	177.49	24.52	10.79	9.24	4.49	-1.87	-1.03	-0.83	78.9	58.26	0
2000	203	17	149.65	6.66	160.12	10.11	165.57	30.61	11.51	9.76	4.41	-1.68	-1.02	-0.66	77.3	60.5	0
2000	203	18	142.87	46.83	125.27	11.1	93.82	54.89	16.91	14.27	6.6	-1.19	-0.69	-0.5	74.02	60.82	0.14
2000	203	19	10.89	15.97	24.01	17.24	26.59	25.14	11.85	10.16	6.25	-0.7	-0.44	-0.26	67.14	59.59	0
2000	203	20	332.02	18.17	349.13	26.06	25.07	37.94	7.7	6.59	3.64	-0.82	-0.79	-0.04	67.3	58.76	0
2000	203	21	15.91	20.03	36.4	19.88	77.99	34.43	2.85	3.48	2.16	0.03	-0.72	0.75	65.84	59.19	0
2000	203	22	2.56	23.32	27.8	10.78	35.33	40.42	2.96	3.8	1.99	-0.69	-0.44	-0.25	65.89	60.13	0
2000	203	23	223.44	13.49	243.34	25.74	167.62	16.54	4.76	3.89	1.65	-0.38	-0.82	0.44	65.6	60.19	0
2000	204	0	259.3	34.05	315.04	34.31	357.29	38.92	4.98	3.83	2.56	-0.2	-0.41	0.21	66.48	60.26	0
2000	204	1	298.78	73.25	26.61	35.63	72.59	50.62	2.69	3.77	2.42	-0.06	-0.38	0.32	65.94	60.15	0
2000	204	2	271.82	28.04	289.08	33.54	184.17	56.84	4.54	3.42	1.79	-0.34	-0.57	0.23	65.96	59.99	0
2000	204	3	232.3	19.31	239.58	13.5	217.08	36.92	5.38	5.12	2.51	-0.69	-0.71	0.02	66.4	58.34	0
2000	204	4	123.95	44.66	160.37	42.28	89.38	60.41	2.23	2.22	1.87	-0.64	-0.79	0.15	65.67	57.36	0
2000	204	5	72.52	52.67	66.9	42.41	101	41.68	2.33	2.65	1.59	-0.74	-0.95	0.21	65.48	57.74	0
2000	204	6	81.66	57.08	95.6	25.79	117.9	44.99	3.44	4.28	2.33	-0.96	-0.66	-0.3	66.03	58.63	0
2000	204	7	31.56	37.74	45.96	37.89	45.03	46.89	4	4.14	3.1	-2.31	-1.19	-1.12	67.89	57.95	0
2000	204	8	349.92	45.87	14.05	35.3	52.53	41.82	4.41	4.37	3.28	-2.67	-1.27	-1.4	69.99	57.49	0
2000	204	9	301.07	23.32	316.79	27.37	329.77	65.99	8.32	8.38	4.35	-3.48	-1.47	-2.01	71.34	57.4	0
2000	204	10	309.07	20.55	325.87	20.91	331.64	54.52	7.34	7.31	4.22	-3.43	-1.49	-1.94	72.15	56.31	0
2000	204	11	279.5	19.88	288.27	24.36	266.44	54.17	11.7	9.96	4.76	-4.07	-1.68	-2.39	74.69	55.83	0
2000	204	12	259.61	11.77	268.3	16.83	238.33	35.69	14.52	12.66	5.98	-3.55	-1.39	-2.16	75.55	52.93	0
2000	204	13	267.13	12.07	281.29	16.5	260.49	46.93	14.64	12.89	5.5	-3.75	-1.58	-2.17	76.79	51.29	0
2000	204	14	262.46	11.12	274.2	14.72	258.26	48.99	15.39	13.91	5.64	-3.54	-1.39	-2.15	77.32	50.02	0
2000	204	15	268.35	11.56	280.7	13.94	259.42	44.21	14.73	13.89	5.27	-2.84	-1.35	-1.49	76.66	50.42	0
2000	204	16	275.21	12.19	285.61	13.74	256.28	51.51	12.03	11.08	4.18	-2.82	-1.38	-1.44	76.19	51.01	0
2000	204	17	283.58	8.73	296.35	13.83	299.95	62.45	11.44	9.6	3.35	-2.75	-1.44	-1.31	75.72	51.38	0
2000	204	18	271.5	6.07	278.88	7.2	250.37	29.88	10.78	8.7	2.79	-1.79	-0.92	-0.87	74.49	50.63	0
2000	204	19	274.18	2.19	284.12	3.03	244.43	24.58	11.39	9.16	2.44	0.89	-0.36	1.25	71.02	51.6	0
2000	204	20	290.13	12.33	1.58	54.29	130.89	39.68	9.32	4.56	1.7	1.77	1.02	0.74	68.8	51.95	0
2000	204	21	314.59	35.71	37.5	25.6	62.51	12.62	3.96	3.02	2.64	1.32	0.06	1.25	66.53	53.28	0
2000	204	22	298.47	18.88	12.32	17.52	56.18	14.3	5.27	3.32	2.5	2.22	0.19	2.03	65.21	52.62	0
2000	204	23	319.64	35.57	33.32	13.13	37.3	13.83	5.13	5.16	3.24	1.21	0.3	0.91	64	52.56	0
2000	205	0	309.61	21.79	43.9	41	71.27	25.56	10.27	4.61	2.66	2.58	1.17	1.41	62.65	51.99	0

2000	205	1	304.29	53.01	41.5	39.93	54.34	13.76	5.1	3.78	3.62	1.21	0.13	1.08	63.46	51.54	0
2000	205	2	17.6	23.9	52.45	23.52	55.14	35.24	5.11	4.9	3.44	-0.41	-0.55	0.15	62.58	50.93	0
2000	205	3	333.86	10.46	25.68	17.58	43.51	16.35	9.54	6.55	3.21	2.33	1.52	0.81	60.13	51.39	0
2000	205	4	345.05	13.6	43.13	14.12	83.36	18.72	10.89	7	3.1	2.51	1.5	1.01	58.63	50.82	0
2000	205	5	23.55	18.22	69.83	12.1	80.65	26.29	8.06	7.88	3.61	-0.3	-0.66	0.36	59.97	50.36	0
2000	205	6	13.82	30.56	60.15	17.08	60.83	24.37	5.75	5.34	3.41	-1.72	-0.94	-0.78	63.1	51.39	0
2000	205	7	15.1	59.61	53.79	53.59	65.96	54.3	5.68	4.46	2.77	-2.19	-1.18	-1.01	65.87	52.31	0
2000	205	8	349.23	11.81	2.07	15.43	12.84	23.82	10.52	9.52	6.08	-3.1	-1.44	-1.66	68.05	53.06	0
2000	205	9	358.79	14.26	10.36	15.95	12.9	24.03	8.41	7.96	5.62	-3.1	-1.35	-1.75	70.14	52.7	0
2000	205	10	11.72	22.07	29.66	22.73	28.78	29.35	5.61	6	4.74	-2.91	-1.31	-1.61	71.41	52.05	0
2000	205	11	0.55	30.84	6.98	24.59	2.88	29.05	5.73	5.81	4.46	-2.98	-1.35	-1.63	72.98	52.26	0
2000	205	12	358.85	23.5	3.8	28.42	8.8	34.49	6.8	6.53	5.21	-3.09	-1.48	-1.61	74.79	52.51	0
2000	205	13	349.29	18.48	3.26	16.89	8.92	27.46	5.28	5.28	4.06	-2.78	-1.33	-1.45	75.6	51.85	0
2000	205	14	325.91	21.36	335.13	28.95	4.13	54.52	5.9	5.57	3.31	-2.63	-1.28	-1.34	76.59	51.27	0
2000	205	15	243.25	17.14	257.88	27.15	239.67	45.5	4.6	4.56	3.48	-3.16	-1.52	-1.65	77.92	51.06	0
2000	205	16	284.88	35.38	280.78	51.15	263.43	66.6	5.43	4.77	3.24	-3.12	-1.5	-1.62	78.54	51.99	0
2000	205	17	305.78	24.38	318.36	28.65	339.41	40.53	4.81	4.34	2.57	-2.48	-1.24	-1.24	77.93	51.61	0
2000	205	18	309.79	7.56	323.73	13.07	319.26	22.75	5.41	4.6	1.85	-0.86	-0.63	-0.22	76.08	54.39	0
2000	205	19	0.65	9.33	25.05	21.38	333.03	30.12	3.4	3.18	1.78	0.98	0.53	0.45	73.06	57.21	0
2000	205	20	306.37	47.63	23.36	19.07	25.69	17.19	2.4	4.3	3.35	0.92	0.75	0.17	70.79	57.76	0
2000	205	21	356.29	16.37	22.51	6.93	31.6	15.32	2.72	6.14	4.43	3.45	2.67	0.78	68.27	57.73	0
2000	205	22	23.62	43.99	18.01	8.2	26.21	33.25	3.19	6.56	4.17	3.95	3.41	0.54	66.4	57.35	0
2000	205	23	17.87	8.99	24.64	5.24	26.83	9.87	5.59	7.97	5.23	3.66	2.34	1.32	65.09	56.53	0
2000	206	0	0.53	6.94	14.39	5.37	19.67	10.33	5.76	6.59	4.72	3.3	2.97	0.33	64.41	55.98	0
2000	206	1	10.24	9.77	21.24	4.43	29.64	10.58	7.28	8.85	6.51	3.37	2.61	0.76	63.51	55.52	0
2000	206	2	352.31	8.53	20.8	5.61	31.51	11.9	9.05	9.2	6.55	2.85	1.34	1.5	63.32	55.71	0
2000	206	3	343.09	7.83	22.66	6.13	34.64	13.17	4.79	7.66	5.23	4	3.04	0.95	62.76	54.89	0
2000	206	4	346.82	4.05	19.39	6.23	30.6	12.69	7.9	7.44	5.67	3.97	2.52	1.45	62.53	55.4	0
2000	206	5	346.8	5.63	13.54	5.61	31.06	9.88	9.56	8.94	6.74	2.8	0.58	2.22	63.32	55.6	0
2000	206	6	346.81	5.82	17.57	6.58	31.57	11.34	7.99	7.61	5.47	1.13	0.39	0.74	64.97	55.9	0
2000	206	7	2.52	7.6	24.09	8.71	32.55	12.56	8.88	7.73	5.86	-1.49	-0.6	-0.89	67.54	55.28	0
2000	206	8	1.87	16.03	20.34	21.49	29.34	23.46	4.65	4.47	3.25	-2.25	-1.17	-1.08	69.46	54.85	0
2000	206	9	4.66	15.16	8.61	13.86	359.32	27.3	5.29	5.01	3.35	-2.43	-1.21	-1.22	70.98	55.88	0
2000	206	10	7.34	16.59	10.89	17.19	6.32	22.42	5.38	5.09	3.63	-2.41	-1.22	-1.19	72.11	56.63	0
2000	206	11	8.68	21.39	8.31	25.42	2.15	31.37	5.04	4.59	3.16	-2.58	-1.27	-1.31	73.3	57.87	0
2000	206	12	357.06	26.62	348.49	16.8	356.43	33.26	4.9	5.02	3.74	-2.57	-1.18	-1.39	74.4	57.19	0
2000	206	13	98.09	57.72	124.67	53.71	28.07	56.74	4.04	3.83	2.94	-2.46	-1.34	-1.12	75.78	55.78	0
2000	206	14	85.9	15.02	99.89	19.83	94.45	39.42	6.21	5.39	2.85	-2.3	-1.24	-1.05	75.8	55.83	0
2000	206	15	120.44	9.72	131.73	11.7	136.03	28.48	4.89	4.83	2.29	-2.25	-1.18	-1.06	75.61	57.43	0
2000	206	16	115.07	13.56	123.71	15.82	111.7	20.58	4.08	3.86	1.83	-2.1	-1.16	-0.94	75.33	57.19	0
2000	206	17	94.37	5.64	101.62	8.09	81.74	12.16	4.74	4.71	2.06	-1.39	-1.03	-0.36	74.56	53.91	0
2000	206	18	76.95	7.62	84.21	10.79	80.83	8.45	4.34	3.78	2.13	-1.33	-0.98	-0.35	74.17	53.66	0
2000	206	19	64.54	29.01	53.09	35.46	117.42	24.42	2.84	2.27	1.53	-0.87	-0.87	0	73.26	55.94	0
2000	206	20	59.77	12.41	45.16	6.28	27.2	21.44	4.38	4.64	2.25	0.08	-0.21	0.29	71.74	58.92	0
2000	206	21	84.54	15.42	38.92	45.08	16.64	14.22	4.31	3.06	2.07	0.28	0.35	-0.07	70.37	59.28	0
2000	206	22	115.83	9.72	101.9	19.89	31.92	13.71	5.18	3.98	2.19	-0.51	-0.7	0.19	70.02	58.23	0
2000	206	23	65.25	9.59	58.16	7.1	37.93	15.77	4.96	5.31	2.85	-0.89	-0.98	0.09	69.4	56.34	0
2000	207	0	26.61	9.06	31.29	6.88	29.43	11.64	5.25	5.88	3.89	-0.73	-0.56	-0.17	68.56	57.19	0
2000	207	1	30.19	7.39	23.48	6.74	21.26	10.23	5.47	6.14	4.61	-0.55	-0.25	-0.3	67.91	56.84	0

2000	207	2	30.84	7.63	30.59	5.78	36.16	14.22	5.23	5.61	3.48	-0.46	-0.5	0.04	67.49	57.06	0
2000	207	3	26.7	7.7	32.16	6.29	31.83	17.24	4.5	4.94	2.78	-0.32	-0.49	0.17	66.72	57.05	0
2000	207	4	50.81	7.64	35.72	6.36	27.59	10.31	5.52	5.39	3.8	-0.56	-0.64	0.08	66.17	57.36	0
2000	207	5	82.27	17.7	50.01	22.16	64.82	50.36	3.91	2.86	1.81	-1.29	-0.9	-0.4	66.21	57.4	0
2000	207	6	48.69	29.07	53.08	37.57	77.14	45.83	2.38	2.51	1.87	-2.08	-1.12	-0.96	67.15	56.35	0
2000	207	7	72.48	48.79	84.27	50.47	73.2	41.76	2.97	2.52	1.99	-2.24	-1.19	-1.05	68.18	52.32	0
2000	207	8	77.77	48.17	92.47	49.3	83.59	55.48	3.08	2.95	2.31	-2.81	-1.28	-1.53	70.6	52.7	0
2000	207	9	78.72	48.85	88.75	51.15	83.44	73.36	3.47	3.14	2.64	-2.61	-1.23	-1.38	71.56	53	0
2000	207	10	68.8	29.47	74.09	33.68	69.81	39.7	5.24	4.75	3.33	-2.6	-1.27	-1.33	72.1	53.35	0
2000	207	11	91.01	26.11	114.92	31.63	143.12	46.77	4.49	3.86	2.53	-2.92	-1.26	-1.66	73.12	54.15	0
2000	207	12	79.6	50.26	83.9	53.69	49.53	62.6	4.42	4.06	3	-2.75	-1.28	-1.47	73.85	54.43	0
2000	207	13	140.39	43.17	163.91	40.66	172.71	37.89	5.76	5.7	3.94	-2.87	-1.29	-1.58	74.39	55.71	0
2000	207	14	160.52	15.37	173.2	19.72	183.12	23.79	6.35	6.55	4.84	-2.86	-1.23	-1.62	74.33	56.46	0
2000	207	15	165.73	10.77	179.69	12.61	182.19	17.06	6.35	6.25	4.21	-2.59	-1.17	-1.42	74.26	56.55	0
2000	207	16	151.29	8.06	164.9	11.09	173.87	20.99	7.82	7.09	4.16	-2.66	-1.22	-1.45	73.73	56.48	0
2000	207	17	144.34	14.07	157.68	18.26	167.13	30.11	7.59	7.05	4.28	-2.67	-1.26	-1.41	72.74	56.26	0
2000	207	18	114.47	12.36	130.09	14.37	127.91	38.72	7.4	6.72	2.72	-2.27	-1.18	-1.08	71.49	56.58	0
2000	207	19	120.12	9.96	131.16	13.55	145.37	41.64	8.7	7.38	2.76	-2.22	-1.18	-1.04	69.2	56.19	0
2000	207	20	100.59	8.45	113.65	10.24	107.28	39.51	7.69	6.66	2.26	-1.81	-1.13	-0.68	67.46	54.39	0
2000	207	21	110.08	9.92	121.44	12.81	111.08	35.87	8.99	7.17	2.44	-1.81	-1.12	-0.69	66.41	55.36	0
2000	207	22	72.39	22.75	93.27	28.65	119.44	37.32	6.99	5.88	2.38	-2.07	-1.15	-0.92	65.76	54.99	0
2000	207	23	37.82	18.42	57.5	23.86	65.52	32.75	4	3.52	2.29	-1.98	-1.13	-0.85	65.88	54.12	0
2000	208	0	30.98	14.39	40.36	14.4	32.05	18.15	5.41	4.76	3.37	-2.13	-1.16	-0.97	66.21	54.26	0
2000	208	1	39.26	12.09	47.31	12.99	36.48	19.34	6.1	5.34	3.64	-2.2	-1.17	-1.03	66.12	54.01	0
2000	208	2	41.2	9.97	51.99	12.12	37.39	18.84	8.25	7.43	4.94	-2.25	-1.2	-1.06	65.54	54.81	0
2000	208	3	16.59	10.61	31.43	13.06	30.32	15.32	7.66	6.9	4.84	-2.11	-1.14	-0.97	65.65	55.45	0
2000	208	4	22.03	7.95	35.87	10.25	32.3	14.78	10.75	9.46	6.11	-2.12	-1.14	-0.97	65.75	55.56	0
2000	208	5	22.99	9.59	35.51	11.27	32.7	14.85	10.23	8.95	5.82	-2.15	-1.16	-0.99	65.93	55.57	0
2000	208	6	21.67	10.3	34.58	11.99	30.62	18.36	10.29	9.09	6.3	-2.28	-1.22	-1.05	65.14	56.05	0
2000	208	7	14.18	9.18	23.4	13.02	20.99	17.67	10.31	8.36	5.89	-2.26	-1.22	-1.04	64.29	57.28	0
2000	208	8	9.42	10.03	18.74	11.69	19.87	15.86	11.15	9.32	5.92	-2.07	-1.16	-0.91	64.7	57.82	0.02
2000	208	9	15.78	11.33	25.17	11.76	23.68	17.28	9.11	7.41	5.05	-1.9	-1.06	-0.84	64.88	58.19	0.05
2000	208	10	17.96	12.2	27.48	13.11	28.31	14.67	7.54	6.54	4.64	-1.92	-1.07	-0.84	65.36	58.74	0.03
2000	208	11	27.35	13.46	31.97	14.26	21.82	14.39	8.15	6.69	4.74	-2.02	-1.07	-0.95	66.19	59	0
2000	208	12	15.14	12.23	24.96	13.12	26.74	14.77	9.89	8.07	5.42	-1.94	-1.08	-0.86	66.71	59.23	0
2000	208	13	9.39	8.43	19.78	12.79	20.96	18.63	10.51	8.88	6.01	-2.02	-1.14	-0.88	66.95	59.54	0.02
2000	208	14	28.4	11.02	34.42	11.01	24.05	14.35	8.54	7.22	4.83	-1.91	-1.06	-0.85	67.1	59.42	0.01
2000	208	15	36.67	10.21	40.1	10.68	25.91	15.1	8.31	7.02	4.52	-1.9	-1.06	-0.84	67.25	59.84	0.09
2000	208	16	40.97	12.1	34.22	11.07	13.5	14.73	7.87	6.38	4.22	-1.69	-0.91	-0.78	66.92	60.25	0.37
2000	208	17	50.39	16.16	43.93	19.09	20.09	22.81	7.88	5.99	3.62	-1.73	-1.02	-0.71	67.57	61.1	0.07
2000	208	18	51.73	15.61	39.76	16.28	13.43	15.6	7.95	5.79	3.7	-1.66	-0.98	-0.67	67.9	60.92	0.06
2000	208	19	54.82	19.9	35.91	21.49	6.13	13.51	5.62	4.09	2.27	-1.46	-0.94	-0.52	68.19	61.38	0.04
2000	208	20	75.88	14.27	63.79	20.87	18.13	14.51	7	4.13	1.85	-1.34	-0.8	-0.54	68.27	63.53	0.01
2000	208	21	55.71	15.07	47.57	15.78	19.91	16.47	9.16	6.96	4.39	-1.52	-0.92	-0.6	68.45	63.17	0.01
2000	208	22	37.01	15.93	33.79	16.03	20.06	16.19	9.79	7.79	5.25	-1.61	-0.97	-0.64	68.48	62.45	0
2000	208	23	44.26	13.13	43.1	13.91	24.41	20.71	7.88	6.14	3.53	-1.66	-0.98	-0.68	68.06	62.15	0.09
2000	209	0	25.36	9.62	29.19	10.87	20.5	13.91	11.11	8.99	6.07	-1.72	-1.01	-0.71	66.73	61.08	0.36
2000	209	1	17.75	7.58	27.28	9.46	26.18	13.35	13.09	11.01	7.19	-1.74	-0.99	-0.74	65.71	59.62	0.04
2000	209	2	23.17	9.71	30.37	10.28	25.2	13.55	11.59	9.64	6.23	-1.77	-1.05	-0.72	65.04	59.24	0.02

2000	209	3	20.08	9.97	27.47	9.68	27.18	12.24	8.75	7.29	4.91	-1.64	-0.98	-0.66	64.43	58.43	0.05
2000	209	4	13.43	9.99	22.81	11.78	22.98	15.4	8.22	6.74	4.66	-1.6	-0.96	-0.64	64.46	57.95	0.07
2000	209	5	10.22	8.52	23.23	11.3	28.7	14.08	10.22	8.35	5.62	-1.71	-1.02	-0.69	64.55	58.55	0.09
2000	209	6	8.14	9.83	20.68	11.97	22.77	15.98	9.9	7.74	5.22	-1.79	-1.05	-0.73	64.57	58.25	0.04
2000	209	7	2.5	12.18	15.03	14.34	21.04	16.93	10.93	9.18	5.24	-1.89	-1.13	-0.76	64.68	57.79	0.05
2000	209	8	11.5	7.73	23.27	12.13	25.38	17.42	10.89	9.13	5.87	-1.94	-1.12	-0.81	64.93	57.6	0
2000	209	9	16.96	8.47	30.51	10.13	30.04	14.32	9.43	8.26	5.55	-1.99	-1.1	-0.89	65.38	57.18	0
2000	209	10	16.85	10.18	27.5	14.46	26.72	16.82	7.7	6.44	4.32	-1.93	-1.03	-0.9	65.11	58.07	0.01
2000	209	11	12.28	12.19	30.03	13.61	36.29	14.74	5.98	5.12	3.72	-1.83	-0.94	-0.9	65.65	58.38	0
2000	209	12	18.84	10.28	33.52	12.22	33.91	17.32	6.97	5.8	4.26	-2	-1.07	-0.92	66.45	59.26	0
2000	209	13	22.62	8.45	35.81	10.28	30.2	14.85	8.71	7.49	5.15	-2.03	-1.09	-0.94	67.19	59.88	0
2000	209	14	28.22	8.07	39.34	11.65	30.46	16.46	8.19	7.26	4.69	-2.07	-1.1	-0.97	67.41	59.69	0
2000	209	15	35.42	8.28	48.29	10.34	37.89	15.47	6.83	5.7	3.89	-1.97	-1.06	-0.91	67.39	59.83	0
2000	209	16	54	8.17	67.68	15.45	62.4	24.89	6.03	4.22	2.27	-1.94	-1.02	-0.92	67.38	61.13	0
2000	209	17	60.74	10.39	72.78	18.9	71.83	29.56	5.94	3.97	1.91	-1.88	-1.06	-0.82	67.33	61.25	0
2000	209	18	55.57	10.2	68.1	18.43	88.64	22.8	6.21	3.8	1.67	-1.54	-0.92	-0.62	66.68	60.89	0.01
2000	209	19	58.77	6.71	68.97	10.24	56.31	20.63	8.71	6.18	2.64	-1.6	-0.94	-0.66	66.24	60.54	0.01
2000	209	20	49.28	9.06	59.43	11.32	44.16	20.07	8.96	6.68	2.95	-1.55	-0.99	-0.56	66.02	59.56	0
2000	209	21	20.71	16.45	35.33	15.14	34.02	16.31	5.63	5	2.84	-1.68	-1.07	-0.61	65.53	59.27	0
2000	209	22	22.89	12.38	39.01	13.79	43.47	21.99	7.4	6.48	3.86	-1.69	-1.11	-0.58	65.33	58.94	0
2000	209	23	20.87	10.71	34.37	10.08	30.27	13.67	7.12	6.49	4	-1.68	-1.06	-0.62	65.21	58.85	0
2000	210	0	19.59	9.11	34.16	9.19	30.34	13.36	7.52	6.74	4.03	-1.68	-1.02	-0.66	64.98	58.74	0
2000	210	1	7.84	10.8	22.97	16.74	30.08	21.02	7.29	5.98	3.58	-1.64	-1.02	-0.62	64.94	58.39	0
2000	210	2	17.2	10.45	34.74	11.05	38.71	22.42	6.28	5.63	2.8	-1.44	-1.01	-0.43	64.56	58	0
2000	210	3	6.11	10.7	25.55	11.86	24.65	16.78	5.76	5.25	3.01	-1.5	-0.97	-0.53	64.49	58.05	0
2000	210	4	6.16	10.43	25.69	15.13	51.17	17.92	5.25	4.55	2.27	-1.29	-0.98	-0.31	64.44	58.27	0
2000	210	5	13.1	11.35	33.15	10.99	36.51	18.67	5.72	4.84	2.54	-1.51	-0.9	-0.61	64.42	58.57	0
2000	210	6	5.39	12.55	17.23	17.5	16.14	19.22	5.68	5.16	3.5	-2.12	-1.13	-0.99	65.31	58.56	0
2000	210	7	4.07	13.77	18.13	17.33	11.94	20.3	5.43	4.94	3.54	-2.29	-1.21	-1.08	65.93	58.4	0
2000	210	8	15.34	22.58	29.9	24.83	32.01	20.59	4.33	4.31	3.34	-2.4	-1.22	-1.18	66.79	58.7	0
2000	210	9	12.74	23.44	26.03	22.72	25.73	30.19	4.45	4.29	3.13	-2.43	-1.18	-1.25	68.1	59.37	0
2000	210	10	22.66	15.72	40.61	15.15	29.52	19.42	4.81	4.77	4.05	-2.51	-1.29	-1.21	69.19	59.74	0
2000	210	11	10.3	21.2	23.03	17.23	26.9	29.91	4.06	3.65	2.79	-2.36	-1.22	-1.14	69.52	60.19	0
2000	210	12	355.14	19.36	11.59	20.63	16.3	32.59	4.35	4.06	2.9	-2.49	-1.19	-1.3	71.02	60.5	0
2000	210	13	104.13	40.57	120.07	52.86	29.3	59.65	3.76	3.88	3.27	-2.47	-1.13	-1.34	73.3	60.72	0
2000	210	14	148.27	35.03	169.47	42.74	177.66	45.18	3.97	4.05	3.43	-2.77	-1.27	-1.5	74.36	61.75	0
2000	210	15	137.84	18.96	148.62	19.98	156.12	38.85	5.37	5.19	3.55	-3.22	-1.33	-1.89	74.92	62.33	0
2000	210	16	150.71	10.55	166.61	13.43	171.79	22.75	5.54	6.2	4.49	-2.82	-1.22	-1.61	74.51	62.77	0
2000	210	17	134.98	15.06	144.06	18.53	144.65	37.21	6.38	6.45	3.49	-2.48	-1.2	-1.28	74.09	62.74	0
2000	210	18	144.24	7.22	158.23	10.61	172.04	25.26	6.83	6.25	3.28	-2.05	-1.14	-0.91	72.67	62.4	0
2000	210	19	130.33	5.54	133.55	9.89	136.4	30.78	7.77	6.32	2.07	-1.68	-1.02	-0.67	71.23	61.27	0
2000	210	20	146.68	5.3	156.39	8.36	165.87	20.76	6.5	5.17	1.78	-1.46	-0.9	-0.56	69.84	61.06	0
2000	210	21	159.25	5.07	157.86	7.36	135.51	16.75	5.06	4.3	1.55	-1.01	-0.78	-0.24	68.98	59.76	0
2000	210	22	159.03	4.59	154.45	4.61	133.94	16.61	5.32	4.73	1.55	-0.32	-0.67	0.35	67.99	59.2	0
2000	210	23	183.08	7.75	171.8	8.63	128.95	15.25	5.8	4.82	1.53	0.07	-0.68	0.75	66.97	59.04	0
2000	211	0	190.55	7.31	199.76	12.35	144.63	15.2	6.07	4.73	1.3	-0.17	-0.84	0.67	66.98	59.76	0
2000	211	1	193.27	6.62	204.12	7.5	167.94	15.83	7.28	6.4	1.9	-0.64	-1.06	0.42	66.91	59.77	0
2000	211	2	191.61	7.45	198.19	9.01	186.62	14.34	8.92	7.39	4.18	-1.56	-1.08	-0.48	67.45	60.21	0
2000	211	3	198.52	7.64	204.73	7.77	185.71	11.38	7.03	6.08	2.97	-1.43	-1.1	-0.33	67.12	60.14	0

2000	211	4	199	10.24	207.53	10.3	196.79	18.7	5.11	4.69	2.11	-1.4	-1.06	-0.34	66.95	60.34	0
2000	211	5	169.34	19.21	72.49	32.47	30.4	22.53	2.59	2.25	1.6	-1.38	-0.77	-0.61	66.8	60.81	0
2000	211	6	231.66	18.02	236.49	49.86	202.64	36.91	3.23	2.58	1.66	-1.74	-0.95	-0.79	67.49	60.92	0
2000	211	7	218.07	11.46	206.92	21.58	186.11	15.3	3.16	2.56	1.9	-1.76	-0.85	-0.91	68.31	60.81	0
2000	211	8	174.3	12.21	189.82	16.19	187.23	17.14	4.47	4.2	2.98	-2.33	-1.18	-1.15	69.53	60.66	0
2000	211	9	157.31	8.37	167.03	12.5	174.44	22.39	5.4	5.27	3.43	-2.44	-1.18	-1.26	69.8	61.07	0
2000	211	10	145.66	11.99	158.13	15.36	167.97	31.06	4.87	5.04	3.31	-2.75	-1.22	-1.53	70.93	61.11	0
2000	211	11	164.18	15.46	180.96	15.92	191.16	22.9	4.5	4.4	3.53	-2.51	-1.17	-1.34	71.63	60.94	0
2000	211	12	147.47	11.12	159.09	15.3	166.73	25.19	5.11	4.9	3	-2.45	-1.18	-1.27	72.36	61.01	0
2000	211	13	138.71	7.61	151.37	11.92	157.6	28.28	6.74	5.74	2.73	-2.34	-1.17	-1.17	72.68	61.73	0
2000	211	14	144.81	5.35	156.99	8.5	164.96	29.87	6.92	5.34	2.14	-1.83	-1.1	-0.73	72.23	61.66	0
2000	211	15	150.15	7.9	161.88	10.96	169.33	26.9	8.45	7.58	4.53	-2.85	-1.25	-1.6	73.25	61.28	0
2000	211	16	147.29	8.55	159.77	10.78	170.54	25.6	7.27	6.64	3.61	-2.52	-1.21	-1.31	72.72	60.98	0
2000	211	17	152.72	8.65	165.2	10.77	173.52	20.46	7.02	6.62	4.29	-2.32	-1.17	-1.15	72.72	61.28	0
2000	211	18	153.1	5.01	164.04	6.67	171.42	19.95	7.77	6.88	3.6	-1.67	-1.05	-0.62	71.72	60.9	0
2000	211	19	152.05	4.75	161.45	7.09	167.75	25.83	7.86	6.59	2.63	-1.51	-1.02	-0.49	71.2	60.41	0
2000	211	20	159.36	4.37	169.65	7.44	175.76	17.5	8.15	7.98	3.95	-1.5	-1.01	-0.49	70.93	61.22	0
2000	211	21	162.08	5.62	172.77	8.46	177.78	14.72	8.98	7.99	4.02	-1.52	-1.06	-0.46	70.42	60.27	0
2000	211	22	167.86	5.54	180.7	8.63	180.83	14.35	7.61	7.13	3.19	-1.55	-1.07	-0.48	69.57	60.47	0
2000	211	23	168.33	11.04	175.55	14.57	164.93	16.38	5.45	4.33	2.01	-1.48	-0.9	-0.58	68.43	60.45	0
2000	212	0	159.36	13.8	154.38	11.1	122.18	20.63	3.36	3.15	1.44	-0.92	-0.82	-0.11	67.34	59.61	0
2000	212	1	141.22	36.03	152.28	20.83	129.76	22.81	2.13	2.48	1.6	-0.49	-1.06	0.57	66.8	58.87	0
2000	212	2	85.95	38.97	103.98	25.03	80.07	43.96	1.39	2.3	1.73	-0.82	-0.89	0.06	66.92	58.88	0
2000	212	3	160.76	6.92	161.85	5.34	139.82	29.5	2.99	2.69	1.49	-0.57	-1.04	0.47	66.7	59.22	0
2000	212	4	158.89	4.93	158.5	4.45	112.75	20.88	3.63	3.9	1.19	-0.35	-0.83	0.48	66.58	59.65	0
2000	212	5	177.19	12.44	161.76	9.41	84.95	9.39	2.08	2.45	1.49	-0.46	-0.94	0.49	66.58	59.59	0
2000	212	6	148.6	46.29	92.62	16.1	52.18	16.6	1.85	3.12	2.1	-1.02	-0.74	-0.28	66.88	61.39	0
2000	212	7	125.35	8.17	100.55	10.32	77.04	15.19	2.94	3.44	1.49	-1.43	-0.59	-0.85	67.3	62.17	0
2000	212	8	110.52	6.78	99.7	5.13	90.19	16.79	4.25	3.74	1.53	-1.51	-0.74	-0.77	67.3	62.27	0
2000	212	9	102.29	5.95	92.56	7.42	81.15	22.67	3.76	3.87	1.81	-1.38	-0.61	-0.77	67.24	62.15	0.04
2000	212	10	125.96	9.97	112.64	24.63	119.69	25.75	3.41	3.05	1.47	-1.61	-0.76	-0.85	67.6	63.06	0.17
2000	212	11	105.84	27.14	109.31	36.86	143.02	46.33	2.73	1.84	1.37	-2	-1	-1	68.49	63.5	0.03
2000	212	12	45.91	22.84	18.21	25.94	5.57	46.39	2.46	2.42	2.09	-1.94	-0.99	-0.95	69.13	62.23	0.01
2000	212	13	14.79	13.51	11.7	14.49	7.01	19.6	4.19	3.93	2.99	-2.06	-1.08	-0.98	70.21	61.18	0
2000	212	14	31.92	14.62	36.24	15.49	35.27	18.26	4.63	4.18	3.35	-2.09	-1.13	-0.96	70.96	62.73	0
2000	212	15	74.39	8.44	81.75	14.62	60.19	26.8	7.45	6.02	3.28	-2.13	-1.18	-0.95	71.1	62.83	0
2000	212	16	76.89	9.79	83.73	13.49	70.32	29.17	7.38	5.98	2.76	-2.07	-1.14	-0.93	70.32	63.1	0
2000	212	17	97.97	13.51	106.54	16.83	95.71	48.28	5.47	4.26	1.69	-1.92	-1.11	-0.81	69.93	62.08	0
2000	212	18	90.22	19.54	85.01	27.67	63.6	35.96	3.85	2.6	1.42	-1.87	-1.1	-0.78	69.93	60.22	0
2000	212	19	119.59	9.63	131.83	16.81	139.76	41.18	6.13	3.55	1.12	-1.61	-1	-0.61	69.95	61.35	0
2000	212	20	127.76	5.41	137.49	17.91	142.32	23.12	6.28	4.13	1.16	-1.49	-0.93	-0.56	70.09	62.11	0
2000	212	21	124.67	11.69	117.04	7.56	63.07	11.75	2.85	3.38	1.48	-1.52	-1.04	-0.47	70.24	62.71	0
2000	212	22	123.79	4.7	130.83	7.11	129.33	22.33	7.63	5.51	1.26	-1.17	-0.89	-0.28	70.05	63.3	0
2000	212	23	105.98	8.46	113.94	13.79	94.94	32.56	6.64	4.4	1.4	-1.46	-0.91	-0.55	70.13	64.99	0
2000	213	0	109.22	16.75	125.85	27.41	122.18	36.04	4.28	2.96	1.66	-1.58	-0.78	-0.79	70.02	64.61	0
2000	213	1	118.77	13.43	120.54	13.31	101.96	20.5	3.87	3.1	1.38	-1.49	-0.79	-0.71	70.1	63.4	0
2000	213	2	71.23	25.33	57.09	19.73	26.52	17.63	3.03	2.42	1.77	-1.64	-0.81	-0.83	70.26	64.25	0
2000	213	3	68	10.07	59.45	9.06	39.95	12.7	3.82	3.65	2.43	-1.73	-1.02	-0.71	70.34	65.1	0
2000	213	4	81.6	6.73	74.13	10.07	49.2	17.6	5.48	4.12	2.12	-1.55	-0.78	-0.77	70.28	64.94	0

2000	213	5	41.96	20.34	40.22	13.46	21.6	16.2	3.22	3	2.12	-1.72	-0.88	-0.84	70.45	64.77	0
2000	213	6	33.44	15.43	37.63	13.43	22.28	16.21	3.11	3.2	2.53	-1.91	-1.02	-0.89	70.78	64.99	0
2000	213	7	56.83	11.7	62.53	15.21	42.97	23.03	5.01	4.16	2.67	-2.13	-1.16	-0.97	71.05	64.96	0
2000	213	8	35.04	12.39	41.55	13.36	29.9	24.15	6.08	5.82	4.35	-2.48	-1.41	-1.07	71.78	65.41	0
2000	213	9	54.34	10.16	61.59	12.2	38.32	17.63	7.14	6.57	4.37	-2.66	-1.55	-1.11	72.63	66.14	0
2000	213	10	64	9.68	75.47	12.74	53.07	24.45	8.37	7.42	4.14	-2.36	-1.33	-1.03	72.95	66.24	0
2000	213	11	75.72	12.5	88.06	18.28	76.73	37.98	7.96	6.87	3.36	-2.18	-1.26	-0.92	72.93	66.22	0
2000	213	12	106.3	14.92	124.09	19.27	131.9	32.16	7.03	5.77	2.56	-2.07	-1.16	-0.91	72.29	66.12	0
2000	213	13	94.3	9.51	109.67	10.72	105.94	42.5	9.03	7.89	2.78	-1.98	-1.17	-0.81	72.15	65.3	0
2000	213	14	80.04	13.32	94.54	16.59	76.62	39.68	10.09	8.22	3.55	-1.92	-1.16	-0.76	71.61	63.85	0
2000	213	15	86.71	15.46	97.51	21.28	74.74	33.71	9.39	7.77	3.49	-2.06	-1.18	-0.88	71.09	63.17	0
2000	213	16	91.9	17.63	104.75	23.36	91.88	48.06	8.66	7.46	3.21	-2.02	-1.16	-0.86	69.99	62.62	0
2000	213	17	85.26	13.86	99.43	20.66	86.18	37.65	10.43	8.12	3.69	-2.04	-1.16	-0.88	68.97	61.97	0
2000	213	18	87.75	16.3	100.58	21.27	99.97	50.95	8.32	6.71	2.92	-1.92	-1.13	-0.79	68.68	61.6	0
2000	213	19	86.53	16.27	97.33	20.2	83.34	35.11	7.35	6.14	2.91	-2	-1.16	-0.83	68.43	61.51	0
2000	213	20	91.01	12.5	102.11	15.56	80.37	35.91	8.39	6.73	2.98	-2.07	-1.18	-0.89	67.71	61.35	0
2000	213	21	107.85	14.85	124.5	18.92	142.81	53.24	7.03	5.4	2.14	-2.03	-1.16	-0.87	67.1	61.16	0
2000	213	22	97.72	10.16	112.19	14.52	100.25	40.03	8.55	6.72	2.65	-1.92	-1.1	-0.82	66.32	60.82	0
2000	213	23	74.9	15.97	89.84	21.44	82.69	37.74	5.45	4.34	2.02	-1.87	-1.07	-0.8	65.92	60.78	0
2000	214	0	59.69	8.52	66.35	12.78	49.23	28.65	5.99	4.53	2.39	-1.7	-0.96	-0.74	65.67	60.8	0
2000	214	1	59.44	11.5	68.23	15.46	45.53	24.59	7.77	5.88	3.02	-1.93	-1.08	-0.85	65.56	60.54	0
2000	214	2	41.36	12.19	51.79	15.56	34.61	19.18	6.97	6.04	3.54	-1.97	-1.13	-0.84	65.54	60.51	0
2000	214	3	36.23	7.41	45	8.86	30.62	15.53	8.3	7.25	4.66	-1.92	-1.07	-0.85	65.35	60.33	0
2000	214	4	37.82	9.86	40.97	10.95	21.73	15.94	7.01	5.96	3.71	-1.7	-0.98	-0.72	65.09	60.08	0.03
2000	214	5	36.87	13.41	37.6	17.17	26.22	20.99	5.88	4.43	2.64	-1.63	-0.97	-0.65	65.36	60.36	0
2000	214	6	19.23	22.05	12.24	48.09	349.82	39.69	4.28	3.28	2.24	-1.77	-1.06	-0.71	65.93	60.89	0
2000	214	7	19.34	13.3	38.1	17.09	32.51	19.18	4.43	3.83	2.64	-1.74	-1.01	-0.73	66.17	61.19	0.01
2000	214	8	14.28	14.63	31.84	13.57	29.43	19.84	4.12	3.95	3.14	-2.05	-1.14	-0.91	66.75	61.43	0
2000	214	9	18.17	17.56	28	21.5	25.68	20.65	4.9	4.62	3.54	-2.26	-1.19	-1.07	67.71	61.75	0
2000	214	10	70.72	25.21	83.56	34.9	57.2	44.59	2.81	2.31	1.77	-2.33	-1.24	-1.09	68.77	62.39	0
2000	214	11	181.39	19.58	204.7	19.46	202.16	24.89	3.54	3.71	3	-2.38	-1.16	-1.22	69.68	63.2	0
2000	214	12	180.5	31.73	192.48	33.72	174.51	39.46	2.61	2.57	2.09	-2.41	-1.24	-1.18	70.59	63.66	0.01
2000	214	13	175.37	17.65	195.47	18.14	194.73	22.05	3.27	3.7	3.12	-2.36	-1.14	-1.21	71.36	64.16	0
2000	214	14	156.36	26.61	176.61	33.8	184.94	25.18	3.01	2.83	2.54	-2.45	-1.21	-1.24	72.52	64.91	0
2000	214	15	157.89	12.64	176.92	12.53	185.2	18.47	4.45	4.72	3.82	-2.49	-1.26	-1.23	73.14	65.23	0
2000	214	16	140.06	16.37	154.08	33.4	170.34	46.08	3.57	3.61	3	-2.45	-1.22	-1.22	73.09	65.62	0
2000	214	17	163.78	15.03	187.8	15.82	190.53	22.72	4.43	4.18	2.83	-2.17	-1.09	-1.08	73.27	66.02	0
2000	214	18	163.96	8.06	159.19	25.94	194.9	36.52	3.24	2.46	1.37	-1.65	-0.98	-0.66	73.03	66.17	0
2000	214	19	161.56	11.8	129.91	12.06	78.73	6.41	2.3	2.36	1.22	-1.14	-0.82	-0.32	72.76	66.21	0
2000	214	20	147.41	4.81	153.15	7.21	103.69	4.76	3.63	3.17	1.05	-0.97	-0.99	0.02	72.56	66.5	0
2000	214	21	134.78	4.67	130.41	9.22	102.08	20.02	3.93	4.26	1.22	-1.31	-0.95	-0.36	72.2	66.63	0
2000	214	22	136.59	2.2	143.88	6.47	134.5	26.18	6.08	5.57	1.37	-1.07	-0.82	-0.25	71.21	66.56	0.01
2000	214	23	160.27	19.01	176.45	30.39	183.25	52.67	7.23	6.17	2.82	-1.47	-0.91	-0.56	70.89	66.24	0
2000	215	0	206.64	9.47	229.45	8.81	208.12	20.09	6.43	5.34	2.28	-1.6	-1	-0.6	71.11	66.4	0
2000	215	1	190.59	8.54	191.84	9.47	164.11	16.91	5.15	3.91	1.8	-1.48	-0.98	-0.49	71.05	66.38	0
2000	215	2	174.82	8.37	158.55	13.78	109.42	17.31	4.38	2.93	1.44	-1.04	-0.86	-0.18	70.77	66.37	0
2000	215	3	188.1	10.01	213.18	11.01	181.19	12	3.77	3.52	1.64	-1.25	-0.89	-0.36	70.76	66.39	0
2000	215	4	155.38	15.52	205.97	12.64	189.91	14.08	2.68	2.56	1.58	-1.21	-0.69	-0.52	70.46	66.22	0
2000	215	5	168.56	7.86	198.06	13.01	194.9	17.12	4.44	3.86	2.48	-1.11	-0.57	-0.54	70.05	65.97	0

2000	215	6	195.36	8.88	219.27	11.32	198.78	21.49	6.32	5.22	2.62	-1.27	-0.56	-0.71	70.03	65.94	0
2000	215	7	178.12	12.77	203.52	26.69	196.27	26.51	3.81	2.79	1.95	-1.65	-0.69	-0.96	70.91	66.53	0
2000	215	8	161.26	8.82	165.05	11.88	175.22	18.58	4.61	3.75	2.5	-2.4	-1.13	-1.27	72.48	67.13	0
2000	215	9	158.56	7.98	165.32	10.04	173.15	20.28	5.53	5.25	3.47	-2.52	-1.17	-1.34	74.26	68.1	0
2000	215	10	169.3	9.74	170.92	10.2	172.97	20.99	8.34	7.13	4.4	-2.59	-1.14	-1.44	76.26	68.47	0
2000	215	11	176.26	19.77	179.8	18.86	178.09	21.98	5.94	5.55	4.51	-2.81	-1.33	-1.48	78.51	68.94	0
2000	215	12	175.89	12.98	178.58	14.95	178.86	25.49	7.09	6.98	4.97	-2.96	-1.17	-1.79	80.89	69.21	0
2000	215	13	164.87	9.68	172.34	11.28	177.53	18.83	9.26	8.44	5.97	-3.1	-1.29	-1.81	82.78	69.57	0
2000	215	14	170.79	11.42	173.16	12.12	174.69	23.79	10.8	9	5.12	-2.78	-1.09	-1.69	84.4	69.67	0
2000	215	15	193.58	8.47	203.58	11.87	189.51	15.95	15.26	13.08	8.28	-2.63	-1.3	-1.32	85.74	67.67	0
2000	215	16	202.01	9.96	212.38	12.78	192.91	17.63	15.63	13.51	8.09	-2.19	-1.14	-1.04	85.44	66.24	0
2000	215	17	201.42	7.68	211.46	9.45	192.01	16.29	12.72	10.98	6.44	-1.76	-1.08	-0.68	84.73	66.29	0
2000	215	18	198.73	6.86	205.99	7.95	192.24	11.71	10.01	8.02	3.57	-0.78	-0.89	0.11	82.88	67.22	0
2000	215	19	197.72	3.78	209.6	5.75	225.79	24.58	9.83	7.59	2.3	0.7	-0.54	1.25	80.32	67.73	0
2000	215	20	205.38	3	212.28	3.62	162.72	13.73	8.45	6.95	1.07	1.79	-0.24	2.03	78.67	68.13	0
2000	215	21	202.74	3.77	208.76	4.15	178.65	10.49	10.61	8.59	2.58	1.88	-0.31	2.19	77.98	68.2	0
2000	215	22	197.34	3.3	207.91	5.21	173.05	10.8	12.96	9.53	2.73	2.19	-0.04	2.23	76.57	68.47	0
2000	215	23	190.13	6.83	196.1	7.38	181.02	9.83	11	8.85	3.31	0.18	-0.9	1.08	77.7	68.07	0
2000	216	0	185.82	5.73	188.65	6.15	177.08	12.78	12.13	9.96	3.93	-0.59	-1.04	0.45	77.58	67.87	0
2000	216	1	191.36	6.04	191.14	7.65	179.82	12.97	11.98	9.34	4.41	-0.89	-0.95	0.06	77.08	68.24	0
2000	216	2	202.58	8.31	198.85	8.32	178.61	12.67	10.36	9.03	3.55	-0.36	-0.71	0.34	75.51	68.7	0.01
2000	216	3	201.64	14.98	198.8	15.29	181.95	14.15	11.07	8.6	3.95	-0.56	-0.72	0.17	73.79	68.16	0.08
2000	216	4	178.71	12.98	177.28	15.22	175.62	5.27	6.22	5.37	2.04	-0.25	-0.82	0.57	72.9	67.69	0
2000	216	5	173.36	5.6	192.84	8.59	198	16.82	10.03	8.92	4	-0.72	-0.73	0.01	72.88	67.57	0
2000	216	6	175.8	3.32	201.83	4.9	202.59	12.44	10.04	7.64	3.75	-0.81	-0.49	-0.32	72.86	67.8	0
2000	216	7	182.43	5.74	195.05	9.58	191.75	14.93	9.62	7.44	3.86	-1.54	-0.84	-0.71	74.01	68.45	0
2000	216	8	186.8	8.17	195.95	9.87	187.06	15.37	10	8.58	5.1	-2.07	-1.17	-0.91	75.17	68.72	0
2000	216	9	189.12	8.2	197.94	10.42	187.61	15.93	8.95	7.77	5.24	-2.33	-1.2	-1.13	76.33	68.91	0
2000	216	10	171.66	10.5	177.5	13.15	181.58	19.13	7.67	7.11	5.04	-2.66	-1.2	-1.46	78.11	69.4	0
2000	216	11	157.77	7.64	160.39	9.83	167.11	25.67	7.02	6.02	3.41	-2.5	-0.98	-1.51	78.71	70.01	0
2000	216	12	167.94	8.39	171.35	9.74	177.28	17.16	9.56	7.76	4.79	-2.34	-1.04	-1.3	79.87	70.41	0
2000	216	13	170.67	6.15	175.66	7.85	178.07	16.51	13.09	11	6.58	-2.58	-1.18	-1.41	80.98	70.55	0
2000	216	14	182.46	6.72	190.63	8.56	184.32	14.34	14.97	13.14	8.16	-2.35	-1.2	-1.15	81.79	69.92	0
2000	216	15	184.1	8.72	191.99	10.29	185.11	14.47	14.02	11.8	6.37	-1.59	-1.01	-0.58	81.24	69.31	0
2000	216	16	191.63	5.6	200.18	7.56	189.31	13.36	12.76	10.86	6.2	-1.59	-1.07	-0.52	80.96	69.03	0
2000	216	17	197.68	8.27	208.05	11.62	194.45	20.74	11.45	9.11	4.7	-1.29	-1	-0.29	80.3	69.03	0
2000	216	18	19.47	47.59	42.3	42.77	61.04	41.4	8.22	8.92	3.53	-0.51	-0.36	-0.15	71.77	64.96	0.27
2000	216	19	97.36	26.13	87.73	24.84	67.09	32.61	3.74	4.04	1.97	-1.02	-0.51	-0.5	69.97	65.37	0.06
2000	216	20	158.74	7.28	161.14	8.49	168.29	18.6	7.45	6.14	2.5	-1.02	-0.58	-0.44	68.94	64.71	0
2000	216	21	182.37	7.19	207.13	7.78	208.12	10.53	7.48	6.62	3.27	-1.15	-0.84	-0.31	68.81	64.25	0
2000	216	22	184.9	6.16	193.74	6.33	188.48	9.95	6.46	6.28	2.65	-1.22	-1.08	-0.14	68.6	64.07	0
2000	216	23	178.01	7.05	190.5	8.08	188.9	11.83	8.76	7.65	3.73	-1.18	-1.01	-0.17	68.83	64.07	0
2000	217	0	180.26	7.83	190.65	8.4	187.02	12.86	8.28	7.13	3.65	-1.41	-1.09	-0.33	69.23	64.2	0
2000	217	1	195.2	17.41	202.99	14.91	193.83	27.39	3.92	3.83	2.05	-1.22	-0.98	-0.24	68.8	63.88	0
2000	217	2	175.51	9.76	199.36	16.25	169.53	16.45	3.51	3.1	1.1	-0.87	-0.9	0.03	68.39	64.03	0
2000	217	3	42.4	47.13	274.51	24.22	280.37	17.35	3.58	3.71	2.14	-0.77	-0.67	-0.1	68.69	64.48	0
2000	217	4	356.17	9.38	12.76	13.24	24.79	19.1	8.57	6.65	3.58	-1.31	-0.83	-0.49	69.31	64.41	0
2000	217	5	358.72	10.04	4.48	9.63	12.34	16.09	11.05	10.19	5.82	-1.78	-1.12	-0.66	69.47	61.67	0
2000	217	6	355.62	10.05	3.1	10.48	5.41	16.18	11.71	11.01	6.39	-1.86	-1.12	-0.74	68.3	58.68	0

2000	217	7	359.61	9.2	10.87	17.02	12.14	21.68	10.4	8.71	5.34	-2.15	-1.21	-0.94	67.86	57.24	0
2000	217	8	350.43	6.84	1.1	10.76	3.12	19.6	8.39	7.54	4.82	-2.52	-1.24	-1.28	68.4	57.02	0
2000	217	9	354.83	11.68	3.2	14.11	5.06	22.77	8.04	7.51	4.8	-2.74	-1.28	-1.46	70.23	57.74	0
2000	217	10	8.26	16.93	21.72	18.99	21.35	22.33	7.54	7.36	5.85	-2.74	-1.3	-1.44	71.88	58.44	0
2000	217	11	6.58	14.09	19.87	15.06	12.99	22.29	8.59	8.15	6.41	-3.13	-1.46	-1.68	74.12	58.85	0
2000	217	12	8.76	14.62	17.07	16.65	13.86	21.57	7.8	7.52	6.13	-2.96	-1.4	-1.56	75.52	58.16	0
2000	217	13	17.04	11.25	32.84	13.66	29.19	18.43	7.99	7.59	6.11	-2.98	-1.41	-1.57	76.51	58.09	0
2000	217	14	42.19	22.48	56.11	26.54	36	49.66	5.55	5.67	4.55	-2.81	-1.28	-1.53	77.44	57.77	0
2000	217	15	342.66	46.93	4.51	42.02	357.44	45.54	3.07	3.1	2.38	-2.62	-1.21	-1.41	77.98	57.45	0
2000	217	16	239.1	44.13	284.66	51.57	317.06	59.38	2.77	2.71	2.18	-2.36	-1.18	-1.18	77.91	58.35	0
2000	217	17	253.91	7.94	266.07	7.26	228.97	19.21	4.69	4.86	2.59	-1.76	-0.97	-0.79	76.91	58.38	0
2000	217	18	255.58	15.9	271.49	22.06	306.4	26.14	4.04	3.01	1.68	-0.26	-0.28	0.02	74.77	60.41	0
2000	217	19	306.09	23.47	324.72	22.31	325.63	28.34	3.95	3.63	2.3	-0.37	-0.51	0.14	73.74	60.02	0
2000	217	20	5.66	10.27	14.41	12.14	18.3	16.34	8.95	7.21	4.53	-1.56	-0.96	-0.6	72.54	58.69	0
2000	217	21	5.65	8.66	15.78	8.3	20.11	13.97	8.89	7.28	3.99	-0.9	-0.7	-0.2	71.23	56.73	0
2000	217	22	4.47	3.68	20.29	7.03	27.21	10.38	9.96	8.34	5.41	0.5	-0.23	0.73	68.99	56.57	0
2000	217	23	356.09	7.36	11.58	10.45	26.92	14.47	13.49	10.09	5.05	0.52	-0.03	0.55	68.17	55.82	0
2000	218	0	354.81	9.5	11.02	8.65	10.9	15.58	12.82	10.72	6.53	-1.7	-0.99	-0.71	69.01	54.05	0
2000	218	1	354.03	8.38	3.9	10.97	9.7	16.73	13.47	12.09	6.54	-1.86	-1.07	-0.79	68.56	53.27	0
2000	218	2	359.56	9.49	12.09	12.73	26.1	18.11	11.27	9.39	5.52	-1.71	-1.02	-0.69	67.02	52.64	0
2000	218	3	0.19	10.54	13.3	13.05	25.78	17.47	11.23	8.9	5.5	-1.62	-1.02	-0.61	65.75	51.53	0
2000	218	4	355.95	10.73	8.56	14.4	19.12	17.17	10.82	8.33	4.86	-1.44	-0.95	-0.49	64.52	51.39	0
2000	218	5	353.59	9.59	3.12	14.02	9.45	22.13	10.92	8.69	4.14	-1.58	-1.01	-0.57	63.84	51.51	0
2000	218	6	352.44	9.52	1.4	14.26	12.53	19.66	12.81	10.18	5.09	-2.09	-1.12	-0.97	64.91	51.15	0
2000	218	7	349.74	8.39	358.55	12.94	5.41	20.08	15.04	13.18	6.89	-2.11	-1	-1.11	66.87	50.51	0
2000	218	8	350.37	9.93	359.71	13.62	6.86	18.64	15.43	14.02	8.11	-2.59	-1.2	-1.39	69.18	50.11	0
2000	218	9	348.6	7.26	359.02	11.06	4.26	20.87	14.49	13.83	7.65	-2.97	-1.33	-1.64	70.56	51.16	0
2000	218	10	346.62	6.22	356.08	8.63	0.84	22.91	11.95	11.88	6.65	-3.11	-1.3	-1.81	72.09	52.63	0
2000	218	11	340.52	9.91	348.8	12.36	356.66	28.75	10.24	10.07	5.49	-3.3	-1.35	-1.95	74.03	51.29	0
2000	218	12	341.83	11.05	353.44	14.31	1.75	26.69	8.76	8.09	5.23	-3.13	-1.41	-1.73	75.12	51.21	0
2000	218	13	347.14	10.8	355.19	14.74	357.45	25.39	9.16	8.54	4.98	-3.19	-1.43	-1.76	76.61	49.94	0
2000	218	14	0.76	13.93	6.59	18.78	5.09	32.54	7.87	6.92	5.06	-2.91	-1.4	-1.51	77.58	49.76	0
2000	218	15	8.97	19.46	23.88	27.21	18.7	41.15	5.7	5.31	3.81	-2.84	-1.31	-1.53	78.2	50.75	0
2000	218	16	354.23	20.19	2.19	23.7	339.79	40.12	3.98	3.79	2.41	-1.94	-1.07	-0.87	77.07	52.97	0
2000	218	17	281.87	23.34	300.8	34.47	284.43	40.11	2.18	2.1	2.07	-2.11	-1.06	-1.04	77.52	54.46	0
2000	218	18	231.4	12.45	244.04	13.98	256.97	17.73	2.01	1.9	1.75	0.41	-0.91	1.32	75.07	57.88	0
2000	218	19	159.99	39.77	43.64	45.45	6.24	35.36	1.73	2.1	1.85	1.99	0.36	1.64	71.89	58.78	0
2000	218	20	233.56	38.05	16.25	8.61	22.37	11.06	1.92	3.5	2.91	2.41	1.34	1.07	69.32	59.25	0
2000	218	21	249.8	38.6	17.53	6.85	19.53	12.89	1.61	5.26	3.76	3.24	2.18	1.05	67.65	58.71	0
2000	218	22	285.83	49.68	16.39	7.98	22.13	19.57	2.29	5.07	2.97	3.07	2.32	0.76	66.35	57.88	0
2000	218	23	45.23	66.23	22.6	8.5	30.44	19.45	2.22	5.41	2.61	4.12	2.96	1.16	64.66	57.64	0
2000	219	0	348.07	10.29	23.34	6.15	31.68	17.06	6.22	7.96	4.1	4.33	3.12	1.21	64.4	56.9	0
2000	219	1	327.87	20.58	21.28	7.56	30.1	13.67	4.43	6.19	3.82	3.36	3.13	0.23	63.3	56.43	0
2000	219	2	191.69	33.65	17.59	9.1	37.58	16.31	2	3.68	2.16	1.43	0.66	0.76	62.18	55.92	0
2000	219	3	228.83	20.39	13.96	6.1	25.54	9.38	2.31	4.22	3.09	2.12	1.38	0.73	61.48	55.58	0
2000	219	4	241.9	28.05	17.64	5.56	29.81	12.47	1.86	5.26	3.39	3.26	2.27	0.99	60.93	55.32	0
2000	219	5	118.83	24.27	19.29	6.61	28.71	14.12	1.76	5.84	3.35	3.25	2.97	0.29	60.6	55.16	0
2000	219	6	7.44	33.47	23.01	8.53	24.84	16.37	2.26	5.62	3.93	0.66	1.28	-0.62	61.93	55.46	0
2000	219	7	345.6	63.88	44.33	27.98	48.9	32.13	1.67	2.6	2.44	-0.84	0.17	-1	64.41	56.04	0

2000	219	8	154.61	46.6	164.72	33.59	132.47	65.26	2.14	2.23	2.09	-1.99	-0.87	-1.12	68.19	57.26	0
2000	219	9	153.72	12.25	171.4	15.2	189.99	23.18	3.51	3.48	3.28	-2.31	-0.97	-1.34	70.49	58.24	0
2000	219	10	157.41	13.42	182.26	15.7	184.87	22.64	4.47	4.17	3.35	-2.45	-1.05	-1.4	72.67	59.68	0
2000	219	11	178.55	11.33	190.23	13.44	184.73	16.19	12.74	10.83	5.84	-1.37	-0.97	-0.4	73.8	56.64	0
2000	219	12	179.98	6.37	194.17	8.25	188.49	13.02	12.35	10.28	5.48	-1.06	-0.92	-0.14	72.79	57.69	0
2000	219	13	170.42	6.19	181.38	7.55	182.68	15.01	12.07	10.83	5.95	-1.78	-1.06	-0.72	73.98	57.31	0
2000	219	14	168.52	6.33	179.31	8.48	181.84	15.71	17.04	14.97	8.29	-1.4	-1.02	-0.38	74.12	56.17	0
2000	219	15	157.97	5.31	169.19	8.59	173.64	19.14	14.64	14.47	7.72	-1.44	-1.03	-0.41	74.27	57.4	0
2000	219	16	159.45	5.57	170.41	8.9	174.94	19.85	15.52	15.12	7.95	-1.48	-1.04	-0.44	73.5	57.05	0
2000	219	17	160.76	4.82	171.84	8.06	177.12	17.87	15.78	15.32	7.65	-0.66	-0.77	0.1	70.97	61.24	0.01
2000	219	18	171.19	7.61	187.89	11.28	189.02	17.12	14.08	11.87	6.49	-1.36	-0.91	-0.45	71.4	62.94	0
2000	219	19	175.27	7.23	190.9	9.88	191.38	15.87	11.92	9.57	5.07	-1.43	-0.94	-0.5	71.23	63.69	0
2000	219	20	179.89	6.86	194.06	10.37	193.9	14.33	11.79	9.08	5.21	-1.6	-0.98	-0.62	71.42	64.11	0
2000	219	21	182.57	8.66	198.37	11.67	197.43	15.38	9.54	7.41	3.95	-1.56	-0.98	-0.58	71.7	64.83	0
2000	219	22	175.93	7.15	188.38	8.78	186.72	14.03	11.52	9.01	4.87	-1.49	-0.97	-0.52	72.25	65.62	0
2000	219	23	178.79	7.76	196.05	11.07	195.59	15.26	10.09	7.11	3.19	-1.19	-0.76	-0.43	71.75	66.31	0.13
2000	220	0	169.33	9.18	178.99	22.55	179.95	46.23	8.86	6.01	2.4	-0.92	-0.75	-0.17	71.78	67.12	0
2000	220	1	174.79	7.28	179.97	7.37	170.06	23.22	10.2	8.04	3.38	-0.95	-0.83	-0.11	72.16	67.48	0
2000	220	2	177.97	5.76	181.83	6.4	179.9	12.37	10.27	8.44	3.46	-1.14	-0.87	-0.27	72.44	67.95	0
2000	220	3	180.96	5.7	189.71	7.3	187.34	13.35	11.04	9.07	4.37	-1.22	-0.95	-0.27	73.06	68.34	0
2000	220	4	176.22	5.48	179.55	5.59	177.19	12.89	10.66	8.93	3.56	-0.94	-0.91	-0.03	73.52	68.68	0
2000	220	5	170.82	6.16	175.52	6.14	174.2	12.78	9.07	7.15	2.47	-0.82	-0.91	0.09	73.77	68.98	0
2000	220	6	180.74	5.72	184.58	6.5	180.39	13.57	12.35	10.44	4.88	-1.3	-0.98	-0.32	74.59	69.54	0
2000	220	7	176.04	5.25	182.41	7.01	179.81	15.47	12.85	11.02	5.87	-1.61	-1.02	-0.59	75.51	69.84	0
2000	220	8	190.18	9.65	194.79	11.36	186.94	16.39	14.66	12.06	7.58	-2.26	-1.19	-1.07	77.95	70.58	0
2000	220	9	216.54	12.09	223.13	14.6	205.13	25.58	16.09	13.27	7.67	-2.37	-1.15	-1.22	81.74	69.64	0
2000	220	10	233.22	10.9	240.31	13.77	222.67	35.89	14.99	13.05	6.1	-2.41	-1.17	-1.23	83.66	67.92	0
2000	220	11	244.21	10.8	254.97	12.39	233.43	38.33	15.69	13.73	5.54	-2.03	-1.11	-0.93	84.46	66.9	0
2000	220	12	243.17	12	253.37	15.31	235.49	34.24	14.32	12.14	5.31	-2.59	-1.17	-1.42	86.22	67.82	0
2000	220	13	231.39	11.88	240.55	14.62	218.93	33.63	15.67	13.53	6	-2.65	-1.22	-1.42	87.74	67.81	0
2000	220	14	227.15	8.8	237.74	12.64	213.94	34.52	16.24	14.09	5.53	-2.1	-1.06	-1.04	87.33	66.78	0
2000	220	15	222.65	10.99	231.06	14.66	206.87	30.56	16.3	14.19	6.45	-2.23	-1.14	-1.09	87.57	67.49	0
2000	220	16	234.38	9.45	245.78	14.06	226.21	33.99	14.33	12.15	4.86	-2.17	-1.04	-1.12	87.63	67.8	0
2000	220	17	236.5	7.99	244.12	10.95	227.29	33.16	13.96	11.51	4.12	-1.8	-0.98	-0.81	86.43	67.5	0
2000	220	18	231.74	7.16	237.27	9.01	202.94	22.6	11.96	9.4	3.14	-0.7	-0.85	0.14	84.76	67.3	0
2000	220	19	231.43	7.24	233.08	7.29	195.28	15.54	11.79	8.81	3.59	-0.01	-0.82	0.81	83.04	66.85	0
2000	220	20	219.74	8.08	220.8	8.33	191.22	13.09	11.08	9.43	4.31	-0.08	-0.9	0.82	82.02	66.21	0
2000	220	21	209.78	7.1	209.29	6.29	186.65	14.39	9.12	8.64	3.29	0.69	-0.81	1.5	79.79	66.39	0
2000	220	22	208.31	7.27	205.27	6.5	170.22	11.66	8.52	8.78	2.58	2.01	-0.07	2.08	77.45	66.83	0
2000	220	23	217.24	13.61	208.16	19.09	153.02	42.79	8.07	5.97	2.18	1.8	-0.37	2.17	76.91	67.17	0
2000	221	0	183.13	9.92	166.78	7.1	210.15	13.01	5.98	4.01	1.3	1.32	0.14	1.18	76.54	67.34	0
2000	221	1	204.58	14.39	184.75	14.44	137.11	57.6	5.59	4.43	1.28	2.17	0.65	1.52	75.19	67.7	0
2000	221	2	212.77	19.49	202.93	39.7	155.25	30.46	5.63	3.55	2.38	1.15	-0.21	1.35	74.52	67.84	0
2000	221	3	258.66	29.2	198.09	39.61	137.71	38.29	7.25	4.56	1.75	1.84	0.24	1.6	73.43	67.67	0
2000	221	4	269.84	23.5	259.51	36.38	166.19	44.83	7.7	5.26	2.48	1.96	-0.16	2.12	73.73	67.09	0
2000	221	5	300.8	23.37	340.89	43.01	114.18	65.66	7.43	4.57	1.93	1.79	-0.09	1.88	74.03	65.44	0
2000	221	6	288.28	11.46	297.9	38.66	236.04	64.81	15.83	11.65	3.17	-0.72	-0.92	0.2	76.39	65.1	0
2000	221	7	290.15	8.49	302.26	13.83	259.5	73.83	17.75	14.58	4.34	-2.12	-1.3	-0.82	78.27	63.82	0
2000	221	8	288.06	12.2	300.75	17.36	256.27	52.56	10.38	9.14	3.51	-2.99	-1.41	-1.58	80.37	64.23	0

2000	221	9	285.87	25.02	296.02	28.23	290.95	53	7	6.34	3.6	-2.83	-1.4	-1.42	81.6	64.16	0
2000	221	10	312.29	15.65	328.97	14.34	349.2	45.9	10.23	9.87	4.39	-2.99	-1.28	-1.7	82.58	63.82	0
2000	221	11	271.52	15.3	281.38	18.8	258.17	52.82	10.67	9.89	4.46	-3.36	-1.46	-1.9	84.16	63.28	0
2000	221	12	269.88	18.59	281.92	21.02	265.66	48.35	11.9	10.76	4.69	-3.17	-1.41	-1.76	85.12	62.38	0
2000	221	13	259.77	11.78	269.99	14.66	252.14	38.94	14.03	12.67	5.6	-3.13	-1.44	-1.69	86.43	60.02	0
2000	221	14	262.84	12.35	273.43	17.02	247.53	43.09	14.42	12.33	5.29	-3	-1.37	-1.63	87.04	58.98	0
2000	221	15	270.8	14.49	282.36	16.61	251.53	51.97	11.51	10.3	3.98	-3.11	-1.42	-1.7	87.39	59.01	0
2000	221	16	266.59	8.65	277.43	11.27	247.79	40.09	11.43	10.04	4.05	-2.73	-1.28	-1.45	87.09	59	0
2000	221	17	261.83	7.69	274.59	10.31	251.9	35.15	10.16	8.05	3.05	-1.71	-1.01	-0.7	85.44	60.01	0
2000	221	18	247.34	5.93	256.79	6.09	230.52	22.73	9.93	6.73	2.26	1.16	0.51	0.66	81.56	63.2	0
2000	221	19	251.17	6.72	261.64	22.81	227.34	26.05	9.94	7.01	2.97	2.2	0.79	1.41	79.57	61.9	0
2000	221	20	235.64	27	237.23	38.32	260.3	55.02	5.16	3.4	1.87	0.69	0.04	0.65	77.74	61.81	0
2000	221	21	244.49	11.94	258.5	16.9	224.73	6.81	4.96	3.8	1.58	1.28	-0.22	1.5	76.47	62.67	0
2000	221	22	227.99	13.08	200.6	23.84	236.5	40.23	4.39	2.49	1.64	2.44	-0.04	2.47	74.74	63.92	0
2000	221	23	164.24	12.1	163.79	26.33	4.67	27.8	3.91	2.25	1.77	2.94	0.62	2.31	73.86	64.77	0
2000	222	0	154.85	6.59	192.28	31.79	359.86	19.99	5.48	2.3	1.47	2.12	0.5	1.61	73.69	64.86	0
2000	222	1	164.48	6.67	217.2	33.68	39.45	28.01	6.48	2.41	1.87	2.41	0.5	1.91	73.19	64.77	0
2000	222	2	160.87	5.32	212.76	23.21	13.38	23.23	6.33	2.99	1.49	2.59	1.09	1.51	73.15	65.12	0
2000	222	3	166.44	10.37	218.34	36.15	32.5	34.72	6.31	3.1	1.85	2.38	0.42	1.96	72.98	65.07	0
2000	222	4	183.77	11.91	243.51	29.2	20.61	37.51	4.95	2.96	1.39	1.71	0.42	1.29	73.13	65.46	0
2000	222	5	191.01	8.06	199.84	8.93	183.75	15.23	15.61	12	5.48	0.72	-0.57	1.29	73.7	64.74	0
2000	222	6	212.78	7.52	218.08	11.84	188.01	27.77	17.02	12.11	5.89	-0.08	-0.41	0.32	72.76	64.74	0.02
2000	222	7	181.53	11.28	180.75	11.44	168.83	17.21	10.3	8.1	3.08	-0.25	-0.71	0.46	73.4	66.36	0
2000	222	8	160.28	7.39	161.15	8.52	162.89	26.35	7.94	7.14	3.03	-1.59	-0.83	-0.75	74.63	66.68	0
2000	222	9	149.25	7.25	154.75	10.02	166.86	28.87	8.47	7.67	3.81	-2.5	-0.99	-1.51	76.39	67.73	0
2000	222	10	148.69	12.58	158.49	15.02	174.52	23.35	6.9	6.1	4.91	-3.06	-1.28	-1.79	79.85	68.88	0
2000	222	11	154.99	16.39	156.06	18.23	165.7	24.9	6.46	5.92	4.37	-2.7	-0.75	-1.95	83.13	70.1	0
2000	222	12	215.07	44.77	194.03	38.4	188.87	31.51	5.64	4.82	2.84	-2.3	-1.04	-1.26	84.98	68.55	0
2000	222	13	222.63	12.95	230.32	11.03	202.7	24.76	10.95	9.74	4.68	-2.25	-1.19	-1.06	86.32	66.42	0
2000	222	14	204.44	5.35	213.96	8.25	193.93	17.24	14.68	12.63	7.05	-2.23	-1.15	-1.08	85.43	68.26	0
2000	222	15	209.82	8.73	222.2	10.75	197.76	22.4	13.51	11.73	5.83	-2.39	-1.18	-1.21	85.95	68.32	0
2000	222	16	217.87	8.6	228.48	13.32	201.14	23.88	10.48	8.66	4	-2.2	-1.08	-1.12	85.9	68.31	0
2000	222	17	214.73	8.63	223.23	10.91	191.29	18.68	11.52	9.36	4.42	-1.57	-1	-0.56	84.77	67.57	0
2000	222	18	207.82	5.55	213.14	6.99	190.9	12.67	11.18	9.33	4.46	-0.87	-0.94	0.08	82.91	66.92	0
2000	222	19	214.79	6.73	219.96	7.31	187.43	13.01	11.78	8.92	3.89	-0.2	-0.7	0.5	80.98	66.72	0
2000	222	20	207.42	9.65	200.12	10.06	165.29	11.36	9.13	7.46	2.29	0.56	-0.65	1.21	79.46	66.59	0
2000	222	21	216.25	9.27	210.47	12.78	193.15	33.17	7.48	5.51	1.78	0.43	-0.83	1.26	78.53	66.96	0
2000	222	22	219.14	8.27	236.56	11.67	217.06	21.49	7.89	6.22	1.94	0.69	-0.18	0.86	78.11	66.85	0
2000	222	23	207.02	5.83	217.64	7.5	184.39	15.2	10.51	6.82	1.98	1.1	-0.3	1.4	76.82	67.26	0
2000	223	0	278.18	21.68	289.02	20.67	296.29	61.45	14.04	11.8	3.84	-0.69	-0.7	0.01	75.95	65.25	0.07
2000	223	1	353.96	12.81	12.85	16.24	21.68	28.04	8.7	7.85	4.64	-1.15	-1	-0.16	72.13	63.9	0
2000	223	2	343.79	7.85	1.53	11.69	10.21	18.91	11.77	10.41	6.54	-1.15	-0.79	-0.36	71.18	63.23	0
2000	223	3	22.22	19.18	48.22	13.79	54.66	24.5	8.33	9.2	5.97	-1.1	-0.87	-0.23	70.07	62.22	0
2000	223	4	330.53	35.5	351.1	50.66	63.02	35.43	4.69	4.44	2.54	-1.17	-1.06	-0.11	69.87	60.56	0
2000	223	5	316.33	18.44	323.1	29.68	41.94	71.98	7.44	5.57	2.26	-1.34	-1.09	-0.25	69.55	60.12	0
2000	223	6	330.1	11.49	343.61	14.33	0.66	51.96	6.4	5.31	2.6	-1.97	-1.09	-0.88	70.19	60.71	0
2000	223	7	302.18	11.52	315.02	18.91	354.15	66.47	8.79	7.73	3.35	-2.58	-1.4	-1.18	72.11	61.27	0
2000	223	8	333.7	15.4	348.48	15.5	2.23	25.27	6.78	6.14	3.88	-2.66	-1.24	-1.42	73.94	61.48	0
2000	223	9	317.35	15.01	333.42	17.57	3.2	27.97	6.68	6.34	4.07	-2.78	-1.33	-1.45	75.53	61.52	0

2000	223	10	324.64	17.35	339.7	19.54	2.47	32.45	6	6.08	4.05	-2.93	-1.37	-1.57	77.01	61.56	0
2000	223	11	328.42	34.75	355.47	31.62	8.11	38.75	4.07	3.78	3.26	-2.57	-1.15	-1.42	78.25	61.03	0
2000	223	12	325.94	48.31	347.84	45.45	10.2	57.27	3.49	3.89	3.47	-2.65	-1.31	-1.34	79.61	60.68	0
2000	223	13	234.76	34.87	243.71	35.83	233.47	31.35	3.8	3.9	3.46	-2.86	-1.38	-1.48	81.22	61.01	0
2000	223	14	294.85	30.16	308	33.46	293.23	51.2	5.42	4.67	3.42	-2.91	-1.31	-1.6	81.98	61.45	0
2000	223	15	283.72	17.98	297.34	19.79	280.31	37.94	6.64	6.25	3.43	-3.09	-1.61	-1.48	82.89	61.66	0
2000	223	16	269.28	10.81	281.96	11.94	248.83	40.85	8.18	7.78	3.02	-3.11	-1.38	-1.73	83.19	61.87	0
2000	223	17	233.25	16.18	240.59	21.64	211.79	24.15	5.65	5.15	3.06	-2.36	-1.18	-1.19	82.93	61.37	0
2000	223	18	241.48	11.13	256.91	13.16	234.39	11.35	4	3.48	1.62	-0.79	-0.94	0.15	80.69	63.41	0
2000	223	19	244.26	10.9	269.85	12.56	284.31	43.59	4.55	4.09	1.62	1.17	-0.24	1.41	77.72	63.15	0
2000	223	20	283.26	25.41	2.7	44.88	25.43	19.84	5.09	3.7	2.67	2.02	0.67	1.35	74.94	64.97	0
2000	223	21	17.85	10.04	23.34	6.8	22.17	12.15	8.86	8.6	5.21	2.17	1.21	0.96	73.59	64.13	0
2000	223	22	23.46	11.4	13.37	8.24	28.24	11.8	4.63	4.64	3.15	1.47	0.28	1.19	72.45	63.85	0
2000	223	23	26.49	8.37	18.67	4.72	27.34	8.59	4.94	6.11	5.78	2.23	-0.02	2.25	71.18	63.59	0
2000	224	0	16.98	7.67	22.14	5.67	29.86	12.05	5.55	6.41	4.97	2.31	1.04	1.27	70.5	62.93	0
2000	224	1	18.5	8.23	20.75	6.22	29.79	10.96	7.27	8.1	5.84	2.16	1.47	0.69	69.85	62.65	0
2000	224	2	15.87	7.46	19.16	5.25	27.54	11.58	7.99	6.94	4.99	1.35	0.53	0.81	70.02	62.62	0
2000	224	3	4.89	6.97	21.07	5.51	36.52	13.06	6.19	6.12	4.99	1.72	0.29	1.43	69.88	62.64	0
2000	224	4	358.53	8.27	22.97	7.22	40.23	15.81	5.17	6.19	4.21	1.83	0.49	1.34	69.86	62.45	0
2000	224	5	3.66	7.41	22.92	5.17	31.47	11.28	8.48	8.13	5.63	0.73	0.48	0.24	69.49	62.31	0
2000	224	6	11.29	11.1	27.15	12.01	44.11	17.49	6.29	5.45	3.56	-0.33	-0.11	-0.22	70.34	62.14	0
2000	224	7	14.77	20.24	34.82	22.06	44.9	45.22	3.81	3.49	2.43	-2	-1.04	-0.96	72.36	60.94	0
2000	224	8	11.88	23.42	16.04	22.5	24.45	33.09	4.52	4.73	3.58	-2.42	-1.17	-1.25	73.94	61.31	0
2000	224	9	343.02	52.39	320.39	39.35	295.9	38.96	2.96	3.19	2.62	-2.98	-1.16	-1.82	76.73	63.12	0
2000	224	10	208.2	37.15	245.01	21.1	234.64	19.82	2.9	3.84	3.8	-2.64	-0.91	-1.73	78.6	63.64	0
2000	224	11	159.84	15.63	176.29	22.33	174.65	26.02	4.14	3.85	2.67	-2.26	-1.07	-1.19	79.14	64.4	0
2000	224	12	80.7	44.3	94.04	47.51	72.35	45.73	14.15	12.03	6.14	-1.98	-0.97	-1.02	75	63.73	0
2000	224	13	15.31	8.51	23.47	9.8	19.43	13.96	16.72	13.97	9.58	-1.06	-0.33	-0.73	69.58	63.05	0.03
2000	224	14	66.16	14.34	41.06	20.31	21.16	24.33	10.24	8.09	5.41	-0.56	0.01	-0.58	70.66	62.81	0
2000	224	15	57.56	33.26	31.36	27.81	9.4	40.85	6.37	5.59	3.04	-0.51	-0.47	-0.04	71.07	63.66	0.03
2000	224	16	253.02	16.69	281.34	16.66	278.87	38.69	6.56	6.32	2.51	-0.19	-0.21	0.02	69.71	63.93	0.14
2000	224	17	177.74	28.28	193.25	35.19	171.13	26.98	4.92	4.38	2.42	-0.65	-0.4	-0.25	69.6	64.8	0.01
2000	224	18	224.16	18.29	242.88	16.53	232.88	37.16	5.87	5.59	2.56	-1.35	-0.9	-0.45	69.3	63.84	0
2000	224	19	344.46	19.8	359.39	25.01	19.18	32.76	5.63	5.07	2.4	-0.98	-0.88	-0.1	69.56	64	0
2000	224	20	341.1	10.55	353.12	16.03	11.05	25.67	11.62	10.13	5.04	-1.73	-1.1	-0.63	69.78	63.59	0
2000	224	21	17.97	9.86	28.84	10.63	25.97	14.35	12.65	10.85	6.54	-1.67	-0.98	-0.69	68.15	62.18	0
2000	224	22	1.56	11.62	11.25	12.03	17.9	14.58	10.72	9.16	5.73	-1.67	-1.04	-0.63	67.92	61.68	0
2000	224	23	355.35	10.77	3.9	11.56	13.73	19.5	13.82	11.62	6.22	-1.84	-1.13	-0.71	67.76	60.89	0
2000	225	0	1.18	12.04	13.73	14.27	25.6	19.77	11.88	10.08	5.81	-1.81	-1.1	-0.71	67.47	60.91	0
2000	225	1	4.93	10.61	15.82	15.69	27.71	18	10.28	8.58	5.6	-1.92	-1.14	-0.77	67.7	60.64	0
2000	225	2	15.11	11.18	26.16	12.51	30.96	15.82	9.55	8.2	5.39	-1.9	-1.14	-0.76	67.18	59.7	0
2000	225	3	8.38	13.34	16.22	17.1	17.11	20.51	8.41	7.16	4.29	-2	-1.16	-0.84	66.84	58.97	0
2000	225	4	12.4	10.71	22.36	12.14	23.3	15.37	8.85	7.6	4.99	-1.88	-1.13	-0.76	66.73	59.29	0
2000	225	5	15.98	13.02	27.01	14.12	18.51	17.19	7.5	6.3	4.46	-1.92	-1.13	-0.79	66.81	59.48	0
2000	225	6	29.42	9.18	31.7	9.34	19	14.26	12.99	10.42	6.68	-1.36	-0.93	-0.43	66.11	60.32	0.53
2000	225	7	20.01	9.98	23.94	10.7	19.52	14.16	11.15	9.15	5.92	-1.72	-1.07	-0.65	66.18	60.59	0.04
2000	225	8	10.31	18.92	20.5	19.27	25.22	23.14	5.63	4.41	2.51	-1.74	-1.09	-0.66	66.77	59.96	0
2000	225	9	17.24	15.34	29.03	15.58	27.66	21.19	7.99	7	4.56	-1.94	-1.11	-0.83	67.48	60.15	0
2000	225	10	12.92	12.1	20.98	14.1	24.19	17.79	8.72	7	5.01	-2.06	-1.12	-0.94	68.17	59.68	0

2000	225	11	21.82	11.04	31.05	13.59	27.56	14.64	9.74	8.36	5.34	-1.73	-1.03	-0.69	68.79	59.19	0
2000	225	12	16.83	10.4	24.2	11.12	22.05	12.94	8.78	7.41	5.11	-1.73	-1.01	-0.71	69.01	59.27	0
2000	225	13	17.27	11.43	23.63	11.71	20.62	16.81	9.15	7.55	5.18	-1.81	-1.04	-0.77	69.28	59.4	0
2000	225	14	10	13.43	16.45	15.52	14	19.19	8.6	7.14	4.42	-1.97	-1.1	-0.87	69.61	59.15	0
2000	225	15	356.14	10.32	0.96	15.06	10.5	24.53	9.21	7.44	3.75	-1.98	-1.14	-0.84	70.11	58.71	0
2000	225	16	0.86	12.55	9.68	13.02	16.96	18.85	8.7	7.45	4.19	-1.81	-1.12	-0.69	70.48	58.89	0
2000	225	17	3.24	11.04	15.56	14.02	25.09	17.4	8.5	6.98	3.89	-1.63	-1.1	-0.54	70.39	58.54	0
2000	225	18	7.24	9.91	20.61	10.63	29.26	14.12	8.96	7.18	4.73	-1.44	-0.98	-0.46	70.26	58.72	0
2000	225	19	16.11	7.55	22.76	10.11	25.99	12.69	11.39	8.54	5.08	-1.37	-0.87	-0.5	69.63	59.06	0
2000	225	20	24.85	8.76	28.93	13.85	20.95	18.29	11.62	8.65	5.2	-1.77	-1.06	-0.71	69.55	58.24	0
2000	225	21	54.33	23.58	66.3	33.11	86.19	55.61	4.95	3.89	2.36	-1.54	-1.1	-0.44	68.75	55.91	0
2000	225	22	42.69	14.18	48.54	15.04	29.81	24.84	8.87	7.18	4.15	-1.74	-1.06	-0.68	68.01	53.92	0
2000	225	23	34.03	15.3	48.63	15.18	50.53	25.26	7.44	6.23	3.46	-1.56	-1.1	-0.46	67.27	53.59	0
2000	226	0	15.67	16.07	27.03	18.32	30.48	22.54	7.87	6.47	3.72	-1.49	-1.06	-0.43	66.11	53.87	0
2000	226	1	6.72	7.37	22.61	9.24	30.61	14.4	11.01	8.53	5.2	-1.3	-0.91	-0.39	64.99	54.36	0
2000	226	2	5	8.41	16.37	12.61	23.75	15.8	14.03	10.78	6.68	-1.84	-1.13	-0.71	64.68	54.53	0
2000	226	3	0.79	11.77	10.72	13.45	20.83	16.68	14.41	12.09	7.45	-2.13	-1.23	-0.9	64.66	54.07	0
2000	226	4	7.23	8.14	18.31	12.04	19.38	15.52	14.29	11.45	7.37	-2.14	-1.26	-0.89	64.67	53.91	0
2000	226	5	3.06	9.33	14.82	15.05	21.73	18.03	14.15	11.32	7.26	-2.05	-1.22	-0.83	64.6	54.06	0
2000	226	6	359.67	10.01	9.52	16.18	18.79	16.62	15.1	12.37	7.43	-2.26	-1.28	-0.98	64.88	54.3	0
2000	226	7	3.06	10.68	14.79	13.01	19.22	17.84	13.93	11.63	7.23	-2.33	-1.28	-1.05	65.35	54.54	0
2000	226	8	4.05	11	16.55	14.41	18.18	17.1	13.39	11.09	7.38	-2.42	-1.3	-1.12	65.96	55.18	0
2000	226	9	5.28	11.32	16.39	13.86	19.24	16.44	13.58	11.27	7.76	-2.53	-1.33	-1.2	66.97	55.94	0
2000	226	10	4.07	10.01	12.63	15.01	16.44	17.5	11.44	9.72	6.17	-2.55	-1.31	-1.24	68.34	56.87	0
2000	226	11	22.6	11.49	34.62	14.57	25.95	17.32	12.35	10.43	6.75	-2.45	-1.23	-1.22	69.92	57.3	0
2000	226	12	29.96	12.99	39.3	17.02	30.4	18.13	15.05	12.71	8.15	-2.5	-1.27	-1.23	71.31	57.55	0
2000	226	13	27.7	12.54	37.89	17.61	27.46	18.65	13.37	11.16	7.7	-2.77	-1.35	-1.42	72.34	57.9	0
2000	226	14	37.86	8.6	50	12.06	38.1	19.05	14.82	12.52	7.66	-2.15	-1.15	-1	72.02	57.48	0
2000	226	15	37.29	8.14	48.3	10.93	33.9	16.38	14.65	12.18	7.7	-2.09	-1.14	-0.95	71.15	57.65	0
2000	226	16	60.09	10.14	71.7	13.82	55.56	27.45	13.96	11.01	5.56	-1.94	-1.1	-0.84	69.64	57.75	0
2000	226	17	59.21	7.83	72.31	12.85	61.86	22.96	9.09	6.85	3.1	-1.67	-1.05	-0.62	68.07	58.58	0
2000	226	18	28.69	13.13	54.39	14.49	56.16	16.87	7.67	6.67	3.39	-0.96	-0.77	-0.19	66.71	59.71	0
2000	226	19	22.65	7.56	31.89	9.29	26.55	13.77	13.96	11.52	7.12	-1.66	-1.04	-0.62	66.69	59.65	0
2000	226	20	11.21	9.35	20.89	11.19	20.21	17.18	11.75	9.51	5.93	-1.74	-1.05	-0.68	66.12	59.3	0
2000	226	21	358.59	11.51	10.68	15.21	23.09	20.16	9.48	8.07	4.69	-1.84	-1.14	-0.71	66.71	59.09	0
2000	226	22	353.79	11.06	5.44	17.21	21.34	24.3	10.13	8.2	4.45	-1.88	-1.16	-0.72	66.84	58.88	0
2000	226	23	355.24	9.35	4.69	14.78	23.61	19.2	10.97	9.07	5.27	-1.96	-1.21	-0.76	66.99	58.3	0
2000	227	0	349.76	7.51	359.65	13.63	16.88	21.11	14.55	12.17	5.86	-2.01	-1.24	-0.77	66.98	57.7	0
2000	227	1	351.26	7.62	0.11	13.1	10.21	21.03	16.97	14.37	6.99	-1.96	-1.17	-0.79	66.94	57.47	0
2000	227	2	353.74	10.16	3.38	14.14	17.39	19.17	17.88	15.21	8.25	-1.98	-1.22	-0.76	67.28	56.49	0
2000	227	3	357.3	9.29	7.45	12.26	18.75	17.16	16.03	13.18	7.85	-2.03	-1.23	-0.8	67.3	56.68	0
2000	227	4	354.81	9.35	2.48	15.26	16.3	19.49	16.77	14.53	7.74	-2.19	-1.28	-0.91	66.99	56.55	0
2000	227	5	359.43	9.97	9.46	13.16	18.55	16.21	15.96	13.22	8.08	-2.15	-1.28	-0.87	66.87	56.71	0
2000	227	6	356.24	10.33	3.64	15.87	14.42	18.38	16.08	13.63	7.62	-2.36	-1.28	-1.08	67.06	56.85	0
2000	227	7	356.64	10.81	7.67	14.22	16.62	16.77	18.12	15.14	8.96	-2.26	-1.26	-1	67.54	56.51	0
2000	227	8	359.61	11.35	10.35	15.09	14.96	17.71	19.51	16.25	9.82	-2.45	-1.32	-1.13	68.07	57.13	0
2000	227	9	358.73	9.86	9.07	15.08	17.12	17.53	19.1	16.02	9.53	-2.72	-1.39	-1.33	68.79	57.62	0
2000	227	10	2.58	8.9	12.89	13.46	15.39	17.49	15.7	13.39	8.36	-2.69	-1.36	-1.33	69.89	57.88	0
2000	227	11	347.66	8.62	355.98	14.12	10.34	21.37	17.17	15.17	7.38	-2.27	-1.24	-1.04	70.62	58.28	0

2000	227	12	351.78	7.38	1.72	11.94	10.15	19.41	17.27	15.17	7.95	-2.27	-1.23	-1.05	70.97	58.06	0
2000	227	13	8.79	9.7	24.78	15.25	34.12	20.72	14.04	11.16	5.74	-1.52	-0.96	-0.57	70.17	58.7	0
2000	227	14	77.41	19.36	110.25	14.85	136.9	24.47	13.08	11.27	4.8	-0.33	-0.19	-0.14	66.17	60.67	0.24
2000	227	15	354.59	8.82	3.89	13.19	16.03	17.09	22.33	18.68	9.95	-1.73	-1.06	-0.66	66.2	60.61	0.05
2000	227	16	354.2	12.5	6.52	16.19	16.45	19.98	21.66	18.58	9.85	-1.54	-1	-0.54	66.2	60.41	0
2000	227	17	350.29	9.33	0.49	13.79	14.18	17.98	24.94	21.51	10.82	-1.67	-1.04	-0.63	66.43	58.76	0
2000	227	18	355.82	10.65	6.53	14.91	21.35	17.58	18.25	14.89	8.18	-1.73	-1.08	-0.66	66.01	57.69	0
2000	227	19	357.55	9.39	8.48	13.48	17.98	18.12	19.31	16.31	9.36	-1.9	-1.15	-0.75	65.94	58.74	0
2000	227	20	355.86	10.03	5.76	14.27	12.83	18.47	17.64	15.59	8.5	-1.99	-1.19	-0.8	66.11	58.94	0
2000	227	21	354.1	10.61	2.91	12.77	11.88	19.43	15.86	13.8	7.33	-2.06	-1.22	-0.84	66.18	58.83	0
2000	227	22	356.53	11.21	7.89	12.33	14.44	17.11	16.34	14.74	8.98	-2.12	-1.23	-0.88	66.71	58.86	0
2000	227	23	350.43	8.73	0.75	10.37	15.55	16.86	14.13	12.11	6.69	-2.15	-1.23	-0.93	66.57	59.04	0
2000	228	0	348.71	6.76	358.47	12.97	13.79	18.2	15.7	13.75	7.4	-2.13	-1.2	-0.93	66.48	59.21	0
2000	228	1	354.83	11.87	3.61	10.76	11.13	17.85	16.2	13.93	7.66	-2.2	-1.29	-0.92	66.36	59.26	0
2000	228	2	351.94	6.62	1.65	11.98	10.68	17.76	14.95	12.52	6.28	-2.49	-1.49	-1	65.32	59.84	0.01
2000	228	3	353.09	10.34	3.76	12.37	13.94	17.7	13.96	12.23	6.84	-1.95	-1.25	-0.7	65.97	59.94	0
2000	228	4	2.59	8.87	17.2	9.74	25.4	14.27	12.24	10.08	6.31	-1.66	-1.03	-0.62	65.61	59.74	0
2000	228	5	355.34	8.88	6.82	10.85	15.79	17.26	12.59	10.79	5.84	-1.71	-1.08	-0.63	66.1	59.74	0
2000	228	6	358.45	10.17	11.53	12.27	17.4	16.61	10.03	8.16	5.21	-1.97	-1.11	-0.86	66.48	59.75	0
2000	228	7	352.71	9.45	1.48	11.93	3.94	19.22	11.43	10.44	5.76	-2.57	-1.28	-1.3	67.64	60.24	0
2000	228	8	353.28	12.4	0.76	14.57	7.21	22.71	10.35	9.57	5.56	-2.82	-1.37	-1.45	69.12	60.59	0
2000	228	9	1.49	9.34	11.66	14.3	16.19	19.58	12.82	10.86	6.88	-2.61	-1.36	-1.25	70.49	60.38	0
2000	228	10	349.52	16.53	357.5	19.88	1.87	38.72	10.27	9.29	6.12	-3.3	-1.58	-1.72	73.56	61.08	0
2000	228	11	334.5	12.02	343.17	14.99	1.98	30.63	8.84	8.27	4.78	-3.2	-1.45	-1.75	74.96	61.09	0
2000	228	12	328.5	12.6	338.59	16	0.07	33.69	10.72	9.78	4.93	-3.07	-1.43	-1.64	76.2	60.54	0
2000	228	13	350.66	10.07	1.95	13.22	3.57	23.37	9.56	8.64	5.57	-3.13	-1.44	-1.69	77.6	59.39	0
2000	228	14	326.81	11.77	334.85	15.49	352.58	33.37	10.15	9.08	4.33	-3.06	-1.47	-1.59	78.27	59.97	0
2000	228	15	334.98	13.22	345.36	17.29	359.04	38.35	9.51	8.52	4.32	-3.02	-1.41	-1.61	79	59.76	0
2000	228	16	335.84	16.04	349.68	17.07	5.37	20.63	6.35	5.9	3.86	-2.59	-1.31	-1.27	79.17	59.34	0
2000	228	17	353.24	23.28	8.52	19.69	357.51	24.54	3.75	3.58	2.62	-2.15	-1.22	-0.93	78.71	59.23	0
2000	228	18	216.37	37.2	212.43	49.93	183.84	46.62	1.95	1.64	1.41	-0.19	-0.89	0.7	76.52	61.52	0
2000	228	19	241.11	24.69	261.34	52.68	226.98	41.85	4.22	2.17	1.36	2.22	0.6	1.62	73.34	62.59	0
2000	228	20	241.51	18.26	339.43	37.08	41.76	68.98	3.85	2.61	1.93	2.85	0.82	2.04	71.12	62.71	0
2000	228	21	202.94	12.63	356.29	29.02	17.29	26.9	3	1.88	1.91	2.37	0.79	1.58	69.71	62.73	0
2000	228	22	196.48	11.72	336.26	32.28	23.25	44.75	3.93	2.01	1.69	2.43	1.05	1.38	68.29	62.51	0
2000	228	23	189.25	16.53	340.21	23.77	15.24	8.87	3.23	2.11	1.14	2.28	1.2	1.08	67.5	62.07	0
2000	229	0	171.96	6.92	300.29	22.65	17.65	27.47	4.95	2.06	1	1.54	0.65	0.89	66.84	61.74	0
2000	229	1	171.8	6.49	212.68	22.56	251.31	26.58	9.35	4.8	1.22	1.9	0.79	1.1	67.17	62.16	0
2000	229	2	168.85	4.95	185.1	7.3	198.04	24.08	10.43	7.92	2.67	1.33	-0.27	1.6	67.57	61.94	0
2000	229	3	174.08	4.56	185.69	5	182.51	10.8	11.63	10.19	4.34	0.01	-0.78	0.79	67.94	61.34	0
2000	229	4	178.9	12.51	189.89	18.81	193.2	34.97	11.17	9.52	4.43	-0.78	-0.8	0.02	68.35	61.93	0.31
2000	229	5	164.27	9.7	164.19	11.37	179.1	22.19	10.64	8.2	4.02	-0.5	-0.34	-0.16	67.25	62.64	0.43
2000	229	6	175.37	12.19	211.74	32.18	217.47	2.16	999.99	2.49	1.21	-0.84	-0.53	-0.3	68.32	63.81	0
2000	229	7	181.74	10.43	207.26	14	204.14	8.76	999.99	3.98	1.94	-1.15	-0.51	-0.64	69.18	64.46	0
2000	229	8	187.81	18.17	185.34	13.48	182.93	16.99	999.99	5.93	4.13	-1.94	-0.86	-1.08	71.28	65.04	0
2000	229	9	266.51	15.51	268.66	18.99	234.36	47.5	999.99	9.06	3.89	-2.05	-0.89	-1.16	76.16	64.63	0
2000	229	10	269.23	13.04	280.5	16.49	245.32	44.17	999.99	11.6	4.65	-2.79	-1.32	-1.46	79.44	58.97	0
2000	229	11	283.72	12.95	297.38	16.52	273.37	67.01	999.99	17.27	5.94	-3.18	-1.47	-1.71	80.03	55.97	0
2000	229	12	299.64	8.6	313.19	12.58	330.12	73.46	999.99	19.96	6	-3.42	-1.46	-1.95	79.43	53.13	0

2000	229	13	290.35	13.57	303.9	15.96	295.04	69.72	999.99	17.23	5.61	-3.46	-1.54	-1.91	79.88	52.69	0
2000	229	14	300.97	15.85	315.31	19.33	329.8	66.23	999.99	16.48	5.8	-3.01	-1.42	-1.59	79.7	52.23	0
2000	229	15	305.8	11.67	319.4	13.6	347.27	58.7	999.99	17.93	6	-2.84	-1.37	-1.47	79.01	51.35	0
2000	229	16	298.32	11.85	309.58	15.45	311.37	75.01	999.99	15.78	4.96	-2.79	-1.41	-1.38	78.65	50.67	0
2000	229	17	293.59	12.03	309.59	14.77	302.27	76.23	999.99	14.46	4.37	-2.28	-1.3	-0.98	77.81	49.81	0
2000	229	18	295.05	9.58	304.84	11.92	310.02	74.23	999.99	12.85	3.57	-1.5	-1.26	-0.24	75.94	49.81	0
2000	229	19	297.89	8.94	307.46	11.91	288.03	67.24	999.99	12.82	3.54	-0.99	-1.11	0.12	74.24	49.66	0
2000	229	20	314.53	11.47	326.31	14.16	340.21	61.3	999.99	13.22	4.87	-1.54	-1.17	-0.37	73.21	49.61	0
2000	229	21	312.2	12.86	321.33	14.9	347.04	57.93	999.99	12.01	4.03	-1.51	-1.16	-0.35	71.65	48.35	0
2000	229	22	296.59	15.08	304.37	17.99	292.64	55.46	999.99	8.49	3.08	-1.09	-1.1	0.01	69.9	47.72	0
2000	229	23	293.12	9.7	301.83	12.23	279.31	68.01	999.99	12.13	3.31	-1.12	-1.15	0.04	68.62	48.63	0
2000	230	0	291.27	9.47	301.11	11.43	289.05	65.02	999.99	16.59	4.8	-1.9	-1.27	-0.63	68.64	49.44	0
2000	230	1	288.47	9.22	300.5	11.21	267.42	59.1	999.99	12.56	3.74	-1.95	-1.35	-0.59	67.45	49.97	0
2000	230	2	282.48	6.14	293.66	9.33	265.47	58.52	999.99	15.95	4.79	-1.78	-1.22	-0.56	65.1	50.84	0
2000	230	3	291.77	9.55	302.54	12.67	298.68	85.11	999.99	15.51	4.58	-1.96	-1.3	-0.66	64.29	51.26	0
2000	230	4	300.06	10.32	314.33	15.14	354.61	73.86	999.99	11.49	3.54	-1.73	-1.25	-0.48	63.41	50.99	0
2000	230	5	308.79	9	321.65	12.69	2.49	48.45	999.99	10.97	4.31	-1.73	-1.18	-0.55	63.18	50.16	0
2000	230	6	294.27	6	302	12.18	266.67	70.93	999.99	13.16	3.94	-2.4	-1.36	-1.04	63.44	50.02	0
2000	230	7	298.05	11.74	307.64	14.29	276.18	71.29	999.99	12.67	4.24	-2.9	-1.37	-1.53	64.41	48.68	0
2000	230	8	312.43	16.81	325.19	22.18	344.1	60.31	999.99	12.62	5.01	-2.99	-1.34	-1.65	64.92	47.19	0
2000	230	9	303.56	15.05	318.41	19.87	337.48	64.77	999.99	13.2	5.24	-3.43	-1.43	-2	66.4	48.27	0
2000	230	10	309.46	21.6	321.37	14.8	355.32	53.4	999.99	13.87	5.3	-3.52	-1.41	-2.11	67.7	48.54	0
2000	230	11	292.81	14.55	305.17	18.89	296.97	68.47	999.99	12.78	4.93	-3.87	-1.45	-2.42	69.43	48.7	0
2000	230	12	292.2	14.84	306.38	16.21	309.87	69.05	999.99	11.45	4.34	-4.22	-1.57	-2.64	70.83	49.96	0
2000	230	13	289.78	18.83	303.49	22.24	320.69	68.23	999.99	10.03	4.22	-3.99	-1.7	-2.29	71.34	49.77	0
2000	230	14	294.74	16.8	307.9	19.74	308.24	72.07	999.99	9.82	3.74	-3.47	-1.51	-1.96	71.86	49.64	0
2000	230	15	271.41	18.79	284.09	22.29	271.08	60.87	999.99	8.46	3.8	-3.26	-1.41	-1.85	73.11	50.37	0
2000	230	16	264.76	8.83	275.58	12.49	248.12	37.7	999.99	8.23	3.47	-2.71	-1.28	-1.43	73.14	50.85	0
2000	230	17	282.86	10.1	289.34	13.43	248.63	24.5	999.99	6.65	2.48	-1.53	-1.06	-0.47	71.97	52.48	0
2000	230	18	264.91	3.21	268.6	7.56	232.31	23.03	999.99	7.77	2.77	-0.53	-0.35	-0.18	70.39	53.36	0
2000	230	19	266.48	5.97	283.74	32.08	227.82	36.94	999.99	5.41	1.95	0.57	0.33	0.24	68.46	54.2	0
2000	230	20	319.29	59.2	331.41	36.93	86.96	36.43	999.99	3.03	2.12	-0.68	-0.77	0.09	67.74	53.44	0
2000	230	21	327.92	50.42	29.45	23.92	41.5	20.6	999.99	3.39	2.95	0.65	-0.68	1.33	65.7	54.56	0
2000	230	22	30.64	59.31	50.17	40.97	42.3	25.34	999.99	2.86	2.8	0.47	-0.85	1.32	65.45	52.65	0
2000	230	23	340.18	12.62	11.93	15.5	23.91	15.65	999.99	8.24	5.58	0.79	-0.01	0.8	63.23	53.52	0
2000	231	0	356.38	8.79	17.09	11.16	28.27	18.78	999.99	9.72	5.66	-0.18	-0.16	-0.02	61.78	53.22	0
2000	231	1	356.89	7.97	16.25	10.94	33.54	14.39	999.99	7.07	3.95	0.05	-0.11	0.16	60.46	52.23	0
2000	231	2	359.73	9.83	21.38	7.38	36.39	12.98	999.99	6.81	3.6	0.52	-0.12	0.64	59.47	50.88	0
2000	231	3	358.22	9.31	19.26	7.04	29.92	11.35	999.99	8.82	5.86	0.41	0.23	0.18	58.89	50.81	0
2000	231	4	359.87	9.35	18.06	8.66	28.74	12.09	999.99	8.26	5.47	-0.45	-0.11	-0.34	59.11	50.25	0
2000	231	5	359.59	10.83	19.67	11.26	33.11	16.45	999.99	7.56	4.73	-0.9	-0.47	-0.42	59.54	49.72	0
2000	231	6	0.53	10.8	19.05	14.4	29	17.15	999.99	6.33	4.69	-1.82	-0.93	-0.9	60.29	49.77	0
2000	231	7	6.3	13.74	21.31	17.51	21.44	19.68	999.99	5.08	4.11	-2.18	-1.17	-1.01	61.8	48.87	0
2000	231	8	12.33	13.2	26.44	17.66	20.44	24.19	999.99	5.13	3.52	-2.2	-1.13	-1.07	62.53	48.78	0
2000	231	9	57.11	25.18	66.83	32.02	45.18	29.81	999.99	2.63	2.06	-2.26	-1.18	-1.07	63.03	50.28	0
2000	231	10	86.06	24.47	111.53	41.71	142.63	40.43	999.99	1.89	1.64	-2.42	-1.17	-1.24	63.64	52.55	0
2000	231	11	141.63	37.38	162.14	31.18	171.09	23.41	999.99	2.2	2.2	-2.42	-1.18	-1.25	64.17	53.86	0
2000	231	12	14.66	79.48	192.19	72.31	204.28	23.61	999.99	1.34	1.42	-2.15	-1.11	-1.05	64.27	54.25	0
2000	231	13	187.36	42.26	159.11	36.65	123.98	41.68	999.99	2.87	2.02	-1.88	-1.05	-0.83	64.12	54.99	0

2000	231	14	255.43	50.6	240.75	43.06	168.34	46.15	999.99	3.64	2.3	-1.29	-0.65	-0.64	58.74	41.44	0
2000	231	15	357.36	23.95	20.65	26.83	22.05	31.18	999.99	3.71	2.41	-2.04	-1.13	-0.91	64.29	56.09	0
2000	231	16	351.23	16.57	7.74	20.39	14.41	22.99	999.99	3.71	2.61	-2.07	-1.16	-0.91	64.88	56.47	0
2000	231	17	338.25	9.15	351.79	11.69	10.14	17.32	999.99	5.9	3.7	-2.07	-1.16	-0.91	65.5	56.31	0
2000	231	18	355.15	11.78	5.66	13.39	8.5	16.79	999.99	5.5	3.74	-2.01	-1.14	-0.88	65.45	56.09	0
2000	231	19	343.08	10.24	354.94	12.6	5.51	18.63	999.99	6.92	4.18	-2.08	-1.19	-0.89	65.2	56.08	0
2000	231	20	344.14	8.94	358.3	13.33	9.44	22.29	999.99	6.92	3.92	-2.05	-1.19	-0.86	65.08	55.63	0
2000	231	21	333.51	10.43	346.54	11.82	11.29	21.13	999.99	7.57	3.83	-1.9	-1.13	-0.77	64.85	54.28	0
2000	231	22	343.09	11.26	352.55	13.15	3.3	26.47	999.99	6.93	3.03	-1.52	-1.05	-0.47	64.2	53.77	0
2000	231	23	349.8	10.55	3.79	13.01	15.21	19.87	999.99	7.2	3.78	-1.4	-0.91	-0.49	63.06	54.24	0
2000	232	0	342.05	11.22	350.86	18.56	35.38	32.16	999.99	5.29	2.27	-0.47	-0.82	0.36	61.71	54.56	0
2000	232	1	335.91	10.83	1.8	12.07	13.3	20.07	999.99	7.26	3.95	-1.02	-0.8	-0.22	62.27	54.17	0
2000	232	2	315.08	8.44	331.59	18.59	59.92	54.15	999.99	6.49	2.15	0.28	-0.74	1.02	61.17	53.99	0
2000	232	3	334.03	7.04	347.49	11.31	14.28	27.3	999.99	10.15	4.5	-1.39	-0.85	-0.54	62	53.72	0
2000	232	4	332.91	9.76	350.69	17.71	31.08	32.52	999.99	8.16	3.65	-0.56	-0.64	0.09	61.13	53.14	0
2000	232	5	319.76	8.48	335.83	19.13	138.01	51.81	999.99	8.1	2.59	1.46	-0.62	2.09	58.7	52.05	0
2000	232	6	331.25	12.74	348.77	18.69	21.07	56.76	999.99	9.13	4.09	-1.27	-0.98	-0.29	61.49	51.63	0
2000	232	7	326.06	12.94	343.88	13.24	4.33	25.75	999.99	11.17	5.6	-2.26	-1.14	-1.12	64.2	51.76	0
2000	232	8	329.7	15.15	347	17.48	359.68	31.36	999.99	9.73	5.47	-2.59	-1.23	-1.36	66.58	51.89	0
2000	232	9	344.4	10.19	0.22	12.46	4.51	20.82	999.99	13.73	7.37	-3	-1.34	-1.66	68.43	51.77	0
2000	232	10	334.12	12.94	344.02	17.22	0.55	38.55	999.99	10.15	5.34	-3.25	-1.4	-1.85	70.12	52.35	0
2000	232	11	348.65	12.54	357.9	18.53	7.78	24.77	999.99	8.2	5.61	-3.31	-1.53	-1.78	71.29	51.97	0
2000	232	12	337.62	16.57	349.27	20.46	356.5	38.76	999.99	7.62	4.45	-3.11	-1.35	-1.76	72.25	52.24	0
2000	232	13	347.37	18.06	1.73	18.34	5.42	23.63	999.99	8.57	6.02	-3.12	-1.46	-1.66	73.59	51.97	0
2000	232	14	358.92	25.93	20.3	20.83	19.44	30.14	999.99	5.58	4.42	-2.62	-1.26	-1.36	73.99	50.94	0
2000	232	15	357.15	18.85	14.37	21.93	7.95	36.79	999.99	5.92	4.22	-2.4	-1.25	-1.15	74.37	50.23	0
2000	232	16	315.72	10.08	333.83	11.76	359.72	34.49	999.99	10.17	4.12	-2.33	-1.22	-1.11	74.8	49.52	0
2000	232	17	319.54	10.64	332.08	11.97	346.05	49.55	999.99	8.64	3.37	-2.35	-1.3	-1.05	74.36	50.2	0
2000	232	18	348.3	12.85	358.26	15.65	2.29	22.18	999.99	6.04	3.33	-1.36	-0.97	-0.39	71.82	52.92	0
2000	232	19	6.18	9.06	15.5	7.81	14.56	13.6	999.99	6.49	3.58	-0.36	-0.71	0.36	69.71	53.33	0
2000	232	20	354.59	6.96	14.02	5.32	29.14	9.29	999.99	6.3	4.68	1.97	0.48	1.5	66.5	54.15	0
2000	232	21	347.23	6.13	15.75	9.2	32.31	12	999.99	6.69	4.92	2.55	1.82	0.74	64.86	54.05	0
2000	232	22	352.53	8.56	14.5	10.32	40.1	16.74	999.99	7.57	3.47	0.74	0.24	0.5	65.05	53.07	0
2000	232	23	342.13	8.02	357.6	12.95	17.88	34.68	999.99	8.77	3.33	-1.2	-0.97	-0.24	66.01	50.99	0
2000	233	0	310.41	6.63	327.92	8.79	5.79	45.56	999.99	16.84	5.08	-1.57	-1.03	-0.54	66.21	47.69	0
2000	233	1	292.56	7.24	311.71	9.55	337.46	78.31	999.99	17.97	4.95	-1.82	-1.19	-0.64	64.88	45.26	0
2000	233	2	294.4	7.66	321.87	7.74	348.48	62.34	999.99	19.93	5.67	-1.72	-0.96	-0.76	62.91	44.7	0
2000	233	3	287.11	11	331.15	7.16	5.84	45.17	999.99	15.65	5.1	-1.25	-0.65	-0.61	61.07	44.67	0
2000	233	4	250.48	12.72	332.54	11.46	12	35.69	999.99	15.82	5.87	-1.72	-1.04	-0.68	60.49	44.67	0
2000	233	5	306.41	12.87	336.48	13.54	5.04	47.25	999.99	10.81	4.31	-1.45	-1.02	-0.43	60.26	43.42	0
2000	233	6	335.72	12.9	1.55	13.99	9.27	17.51	999.99	10.35	6.01	-1.64	-0.78	-0.85	59.14	45.76	0
2000	233	7	335.33	18.06	355.31	22.53	11.89	24.16	999.99	7.83	4.95	-2.33	-1.17	-1.16	60.77	45.77	0
2000	233	8	357.48	16.51	19.04	21.67	24.83	24.57	999.99	7.48	5.42	-2.65	-1.32	-1.33	62.35	45.2	0
2000	233	9	350.12	12.22	5.44	12.8	8.02	23.28	999.99	10.44	6.98	-3.14	-1.43	-1.71	64.14	43.61	0
2000	233	10	337.11	12.63	352.95	14.49	7.38	27.73	999.99	9.99	6.41	-3.3	-1.41	-1.88	65.19	43.52	0
2000	233	11	319.14	17.34	331.93	21.21	351.38	51.03	999.99	9.08	5.03	-3.62	-1.57	-2.05	66.75	43.38	0
2000	233	12	346.22	18.72	1.16	22.51	9.3	28.56	999.99	9.18	6.27	-3.37	-1.45	-1.92	67.82	43.27	0
2000	233	13	356.27	21.32	9.47	24.02	15	25.86	999.99	7.53	5.98	-3.08	-1.51	-1.57	68.54	43.65	0
2000	233	14	0.11	19.89	11.52	19.47	11.24	27.18	999.99	7.77	5.91	-3.11	-1.41	-1.7	69.43	43.85	0

2000	233	15	11.38	16.59	19.6	17.64	20	19.96	999.99	7.81	6.17	-2.91	-1.37	-1.54	69.96	44.48	0
2000	233	16	12.71	13.73	24.72	16.8	22.01	20.03	999.99	7.65	5.88	-2.88	-1.43	-1.44	70.3	44.94	0
2000	233	17	7.35	13.1	21.65	14.71	20.93	16.3	999.99	7.47	5.45	-2.36	-1.22	-1.15	69.72	45.52	0
2000	233	18	10.35	8.77	20.24	12.28	18.27	16.6	999.99	7.76	5.41	-1.75	-0.94	-0.81	67.81	47.24	0
2000	233	19	9.76	6.96	19.05	10.77	27.43	13.65	999.99	7.06	4.98	-1.21	-0.69	-0.52	64.83	47.26	0
2000	233	20	1.21	9.09	16.56	6.66	22.87	10.97	999.99	5.86	4.04	0.01	-0.39	0.4	62.77	46.4	0
2000	233	21	354.6	4.92	14.92	6.01	26.81	9.98	999.99	5.83	4.49	1.63	0.25	1.38	60.48	48.62	0
2000	233	22	342.08	14.07	14.71	6.72	19.97	9.13	999.99	5.58	4.94	2.71	1.54	1.17	58.67	48.95	0
2000	233	23	309.66	16.55	22.02	6.77	28.91	10.06	999.99	6.97	5.9	2.44	1.53	0.91	57.19	48.08	0
2000	234	0	335.13	7.18	23.1	7.02	34.36	11.95	999.99	8.88	6.4	3.34	2.21	1.13	56.26	47.97	0
2000	234	1	330.88	7.17	28.24	9.2	51.06	18.12	999.99	7.57	3.79	3.15	2.47	0.68	54.72	47.57	0
2000	234	2	344.35	12.18	22.86	9.13	37.14	12.63	999.99	7.93	5.73	1.71	0.77	0.94	54.72	47.55	0
2000	234	3	342.62	16.82	27.12	12.12	45.78	12.41	999.99	6.81	5.04	0.28	0.28	0	54.41	47.42	0
2000	234	4	332.04	51.76	45.67	9.7	79.64	16.77	999.99	6.55	3.59	0.36	0.37	-0.01	53.35	46.73	0
2000	234	5	342.71	11.05	28.7	11.66	47.58	16.03	999.99	6.42	3.44	0.33	0.48	-0.15	53.27	46.88	0
2000	234	6	346.65	11.87	28.11	7.91	41.75	14.49	999.99	8.22	5.62	0.13	0.68	-0.55	54.67	47.53	0
2000	234	7	354.15	9.72	14.81	11.97	25.19	16.44	999.99	8	5.79	-1.97	-0.8	-1.17	57.33	47.79	0
2000	234	8	354.74	12.8	7.55	13.4	8.85	20.12	999.99	8.9	5.99	-2.87	-1.35	-1.51	60.56	47.49	0
2000	234	9	346.52	8.42	355.36	12.95	5.42	23.18	999.99	10.95	5.99	-3.15	-1.41	-1.74	63.41	47.37	0
2000	234	10	346.89	9.44	356.54	11.64	3.63	21.83	999.99	11.56	6.81	-3.33	-1.44	-1.89	65.33	48.08	0
2000	234	11	343.49	11	354.92	13.86	3.32	23.28	999.99	9.75	5.7	-3.37	-1.4	-1.97	67.32	47.63	0
2000	234	12	343.79	10.19	355.32	10.95	2.03	25.8	999.99	12.81	6.85	-3.36	-1.38	-1.97	68.97	47.23	0
2000	234	13	5.41	14.67	15.61	15.43	9.74	22.86	999.99	10.1	7.4	-3.17	-1.49	-1.68	70.46	47.66	0
2000	234	14	10.31	19.77	26.74	23.25	25.41	35.23	999.99	6.92	5.15	-2.8	-1.34	-1.46	71.03	48.06	0
2000	234	15	6.61	19.9	21.27	19	15.93	22.46	999.99	6.29	5.15	-2.82	-1.34	-1.48	71.93	48.47	0
2000	234	16	4.04	25.18	16.43	25.78	4.73	36.3	999.99	5.09	3.8	-2.57	-1.3	-1.27	72.47	49.01	0
2000	234	17	4.35	18.84	18.47	22.42	15.79	22.6	999.99	4.79	3.68	-2.26	-1.19	-1.07	72.22	49.11	0
2000	234	18	12.79	11.97	20.7	12.18	357.06	18.24	999.99	3.62	2.08	-0.45	-0.71	0.26	69.95	52.6	0
2000	234	19	36.3	6.44	21.79	6.88	23.41	15.22	999.99	4.63	3.68	2.24	1	1.24	66.87	54.39	0
2000	234	20	9.88	10.65	15.86	5.24	13.26	19.43	999.99	6.17	4.32	3.25	2.53	0.72	64.41	53.84	0
2000	234	21	341.63	14.73	17.36	5.5	18.16	13.69	999.99	5.57	3.93	3.92	3.58	0.34	62.6	53.5	0
2000	234	22	246.66	12.81	18.82	7.85	29.52	17.42	999.99	4.95	3.53	4.94	4.19	0.75	60.64	52.98	0
2000	234	23	269.67	55.39	17.83	4.4	26.82	9.06	999.99	6.28	4.72	4.43	3.43	1	59.22	52.04	0
2000	235	0	303.04	50.06	17.49	5.11	23.48	10.94	999.99	6.51	4.08	4.25	3.67	0.58	58.23	51.15	0
2000	235	1	263.45	31.85	20.69	6.66	30.92	11.47	999.99	6.53	4.65	4.42	3.68	0.74	57.49	50.79	0
2000	235	2	247.16	43.17	20.15	5.99	32.75	14.04	999.99	6.36	3.97	3.14	2.58	0.56	56.93	50.39	0
2000	235	3	226.51	70.48	21.07	6.66	35.44	11.89	999.99	6.2	4.2	2.32	1.73	0.59	56.52	50.18	0
2000	235	4	353.69	82.72	25.42	6	40.37	15.44	999.99	6.72	3.36	1.43	0.91	0.53	56.03	49.55	0
2000	235	5	145.19	69.05	25.35	7.35	49.56	14.58	999.99	5.82	3.25	1.27	0.36	0.91	55.8	49.99	0
2000	235	6	359.73	13.36	31	11.42	37.9	17.43	999.99	5.67	3.81	0.33	0.85	-0.52	56.83	50.78	0
2000	235	7	29.49	65.71	43.66	42.24	39.49	24.65	999.99	2.35	2.35	-1.68	-0.72	-0.97	59.43	52.03	0
2000	235	8	208.54	56.49	205.69	70.25	8.66	56.35	1.81	1.74	1.76	-1.97	-0.9	-1.06	63.44	53.96	0
2000	235	9	208.77	58.62	276.9	36.36	304.17	51.71	2.4	2.97	2.57	-2.49	-0.99	-1.5	67.18	55.3	0
2000	235	10	149.16	17.22	174.45	23.71	191.55	32.51	4.01	3.91	3.7	-2.7	-1.22	-1.47	71.21	52.7	0
2000	235	11	149.48	22.36	180.29	26.1	189.57	30.76	4.61	4.48	4	-2.99	-1.3	-1.7	73.7	51.86	0
2000	235	12	140.97	15.95	158.77	24.49	179.57	42.9	5.58	5.17	3.56	-3.35	-1.31	-2.05	74.76	51.04	0
2000	235	13	141.29	17.56	156.68	23.97	162.85	40.42	6.02	5.73	3.85	-3.62	-1.54	-2.09	75.91	50.66	0
2000	235	14	159.93	25.42	178.11	27.19	175.34	33.03	6.79	6.23	4.56	-3.11	-1.41	-1.7	76.55	49.97	0
2000	235	15	167.91	18.69	182.05	19.17	180.81	22.49	6.99	5.86	4.26	-2.73	-1.15	-1.58	76.81	50.93	0

2000	235	16	198.36	8.98	213.53	11.51	197.16	20.31	9.03	8.1	4.72	-2.58	-1.2	-1.39	76.83	51.78	0
2000	235	17	207.34	10.2	226.79	12.86	193.3	15.72	8.78	7.13	3.17	-1.37	-0.98	-0.39	75.01	52.54	0
2000	235	18	199.13	3.25	229.48	6.2	206.26	19.44	9.85	7.07	2.36	0.6	0.13	0.47	72.45	53.77	0
2000	235	19	185.51	2.51	220.21	4.8	177.6	8.71	8.62	6.21	2.17	1.83	0.39	1.45	69.79	53.22	0
2000	235	20	170.02	8.77	198.57	11.11	189.88	24.85	11.04	8.06	3.06	1.3	-0.37	1.67	67.62	54.17	0
2000	235	21	177.61	5.42	198.67	6.56	194.3	11.61	9.41	8.2	3.79	-0.24	-0.98	0.74	67.76	53.87	0
2000	235	22	174.55	6.9	203.29	7.7	192.1	13.63	8.57	7.07	2.61	0.27	-0.62	0.88	66.42	53.66	0
2000	235	23	164.2	6.65	195.96	9.25	209.58	14.51	9.23	6.83	1.81	0.66	-0.63	1.29	65.32	54.61	0
2000	236	0	168.31	6.52	206.93	9.44	216.26	15.44	8.21	6.05	2.58	0.21	-0.44	0.64	64.78	55.02	0
2000	236	1	163.56	6.02	204.06	12.65	228.83	19.67	7.53	5.39	2.01	0.55	-0.49	1.04	63.52	54.67	0
2000	236	2	161.14	11.93	219.31	25.16	295.51	24.72	7.17	3.9	1.69	0.65	-0.31	0.96	62.23	56.09	0
2000	236	3	155.83	8.04	208.6	13.56	241.05	28.36	7.36	5.06	1.82	-0.04	-0.54	0.5	61.98	55.19	0
2000	236	4	141.53	5.88	196.14	6.75	225.2	14.18	7.04	4.64	2.17	-0.15	-0.44	0.29	61.93	54.77	0
2000	236	5	147.83	6.44	200.24	9.74	219.48	15.9	7.34	5.75	2.67	-0.11	-0.32	0.21	61.86	54.71	0
2000	236	6	151.8	6.31	204.53	9.98	207.31	16.1	8.63	6.82	3.46	-0.98	-0.5	-0.48	62.76	55.08	0
2000	236	7	161.82	10.07	197.23	12.33	196.77	17.61	8.44	6.87	4.27	-2.06	-0.9	-1.15	64.37	55.9	0
2000	236	8	161.09	7.23	174.85	9.71	179.47	16.56	10.09	9.2	5.92	-2.62	-1.21	-1.4	66.6	57.19	0
2000	236	9	161.49	6.65	171.25	9.27	176.42	17.69	12.57	10.45	6.05	-2.48	-1.19	-1.29	69.06	58.29	0
2000	236	10	167.15	5.35	179.81	8.55	181.37	15.57	18.57	14.92	8.69	-2.25	-1.21	-1.04	70.91	58.41	0
2000	236	11	165.66	4.6	178.71	7.17	179.43	15.89	20.85	17.76	9.79	-1.9	-1.14	-0.76	71.59	57.96	0
2000	236	12	169.45	5.41	182.93	7.72	183.5	14.84	20.42	17.47	9.37	-1.14	-0.95	-0.19	71.41	58.22	0
2000	236	13	167.63	5.21	181.44	8.19	183.02	15.59	19.06	14.97	7.53	-0.34	-0.54	0.19	68.67	59.67	0.02
2000	236	14	165.76	6.09	180.68	9.02	186.95	14.76	15.71	12.3	6.36	-0.88	-0.71	-0.17	68.1	61.34	0.01
2000	236	15	165.75	6.46	178.13	9.62	182.48	14.99	16.51	13.21	7.39	-1.26	-0.83	-0.44	67.68	62.23	0.07
2000	236	16	172.9	6.3	186.75	9.18	186.26	14.63	17.64	14.07	7.72	-1.09	-0.8	-0.29	67.46	61.62	0.02
2000	236	17	179.12	6.37	193.82	8.23	189.93	13.35	14.36	11.82	6.75	-1.22	-0.89	-0.33	67.38	61.77	0
2000	236	18	190.85	7.53	199.28	8.53	188.86	11.88	11.77	9.49	5.44	-1.29	-0.95	-0.34	67.11	60.44	0.01
2000	236	19	196.77	9.87	191.04	9	169.04	18.97	12.18	10.35	4.22	-0.11	-0.4	0.29	67.1	60.11	0
2000	236	20	188.84	11.33	177.46	8.69	160.58	22.99	9.28	7.8	2.29	0.67	-0.46	1.12	66.93	60.37	0
2000	236	21	183.44	6.49	195.05	19.88	193.46	27.21	7.76	7.07	2.08	0.11	-0.79	0.9	67.27	61.07	0
2000	236	22	195.58	14.47	211.25	46.78	119.82	31.84	4.97	2.17	1.26	-0.39	-0.65	0.27	66.48	60.78	0
2000	236	23	207.08	11.9	234.2	20.51	114.59	49.61	5.65	3.16	1.16	-0.94	-0.73	-0.21	66.54	61.05	0
2000	237	0	202.95	8.33	215.76	14.84	189.07	17.36	7.54	5.35	2.18	-0.56	-0.38	-0.19	66.61	61.15	0
2000	237	1	218.85	11.65	217.81	13.21	187.54	27.58	6.94	4.87	2.19	-0.18	0.07	-0.26	66.86	61.1	0
2000	237	2	27.38	29.95	155.01	47.62	118.56	36.22	2.47	1.93	1.59	0.7	-0.74	1.44	66.53	60.99	0
2000	237	3	146.89	38.87	173.27	28.02	161.33	17.5	3.34	2.9	1.47	0.31	-0.7	1	66.41	60.82	0
2000	237	4	248.49	10.95	258.72	13.9	202.83	43.35	4.75	4.18	1.63	0.52	-0.46	0.97	66.31	61	0
2000	237	5	271.84	36.25	285.1	29.89	234.11	38.07	2.9	1.89	1.25	-0.61	-0.69	0.08	66.54	61.02	0
2000	237	6	274.57	28.03	325.62	30.91	36.85	51.64	3.05	2.47	1.64	-0.62	-0.67	0.04	66.71	61.41	0
2000	237	7	347.77	24.76	61.03	22.31	56.72	22.5	4.74	3.83	3.09	-0.5	-0.44	-0.06	67.02	61.56	0
2000	237	8	351.38	12.03	19.92	12.97	23.59	17.65	8.44	7.6	5.83	-1.82	-0.85	-0.97	68.77	62.17	0
2000	237	9	8.79	40.19	29.09	43.96	257.54	46.2	4.72	4.54	3.52	-2.18	-1.03	-1.15	71.29	62.25	0
2000	237	10	180.48	15.99	186.33	16.29	183.28	24.93	4.86	5.08	4.08	-2.65	-1.14	-1.51	73.6	63.1	0
2000	237	11	119.28	42.38	157.42	43.77	189.78	45.19	3.36	3.34	3.13	-2.77	-1.26	-1.51	75.64	63.07	0
2000	237	12	165.8	39.71	173.28	44.38	198.72	36.79	3.49	4.57	3.78	-2.32	-0.89	-1.43	76.29	63.17	0
2000	237	13	274.69	60.63	270.53	56.43	248.5	60.42	3.14	3.07	2.73	-2.75	-1.37	-1.38	78.08	62.26	0
2000	237	14	355.45	22.6	357.98	25.95	347.07	34.63	4.92	4.77	3.22	-2.27	-1.18	-1.09	78.54	60.46	0
2000	237	15	3.47	17	3.75	17.48	358.31	27.66	5.65	5.56	3.53	-2.35	-1.17	-1.18	79.37	59.68	0
2000	237	16	3.09	11.89	5.68	9.68	356.67	16.7	6.64	6.68	4.27	-2.08	-1.11	-0.97	79.22	59.84	0

2000	237	17	3.73	12.9	11.24	16.98	349.09	20.08	4.04	3.94	2.41	-1.31	-1.16	-0.15	78.32	60.45	0
2000	237	18	19.07	13.19	33.19	36.04	326.94	46.23	5.01	4.39	2.96	0.56	-0.48	1.04	75.64	62.34	0
2000	237	19	356.24	14.48	359.67	17.47	13.79	41.65	8.41	6.58	3.14	-1.17	-0.82	-0.35	75.12	59.27	0
2000	237	20	358.57	13.3	21.31	19.73	42.95	22.23	5.51	4.52	2.06	0.46	-0.55	1.01	73.78	58.64	0
2000	237	21	353.26	5.6	13.9	5.28	27.6	10.07	5.82	5.55	3.51	0.86	-0.31	1.18	72.35	59.18	0
2000	237	22	351.1	7.51	15.04	5.24	27	10.89	6.79	6.65	4.46	0.94	0.04	0.9	70.21	58.68	0
2000	237	23	345.28	12.15	20.22	10.01	35.63	12.54	6.19	6.81	5.33	0.89	0.24	0.64	68.41	58.62	0
2000	238	0	346.64	4.19	25.46	7.84	38.15	12.12	8.69	8.11	6.01	1.92	1.28	0.63	66.45	57.91	0
2000	238	1	344.48	4.59	19.97	7.59	38.16	12.39	11.37	9.09	5.77	2.31	0.98	1.33	65.56	57.27	0
2000	238	2	344.27	6.5	18.25	8.54	46.88	16.49	11.29	8.67	4.52	2	0.98	1.02	64.9	56.3	0
2000	238	3	339.73	5.4	12.82	6.68	29.84	11.77	10.92	9.29	5.03	1.1	0.69	0.41	64.26	56.27	0
2000	238	4	348.98	7.39	12.07	9.82	27.45	14.37	10.63	8.85	4.88	-0.31	-0.38	0.06	63.85	55.78	0
2000	238	5	350.51	8.8	9.55	10.78	22.19	16.39	14.14	11.05	5.76	-0.89	-0.76	-0.12	64.61	54.85	0
2000	238	6	355.9	14.43	12.98	11.43	19.87	15.66	15.86	12.01	6.89	-1.7	-1.01	-0.69	65.6	54.56	0
2000	238	7	357.82	11.05	13.57	10.06	14.74	16.2	17.52	14.4	9.12	-2.34	-1.15	-1.19	67.18	54.32	0
2000	238	8	351.06	10.94	3.81	13.03	9.27	17.36	13.57	12.79	7.62	-2.91	-1.34	-1.57	69.29	55.08	0
2000	238	9	336.84	8.33	353.51	9.79	0.93	23.11	12.19	11.67	6.3	-3.05	-1.33	-1.72	71.07	55.39	0
2000	238	10	338.38	9.09	353.81	12.83	358.61	25.04	9.18	9.02	5.37	-3.11	-1.35	-1.75	73.18	55.53	0
2000	238	11	331.52	8.1	348.08	10.51	358.47	23.73	7.64	7.69	4.87	-3.11	-1.39	-1.72	74.98	53.79	0
2000	238	12	334.18	15.15	353.34	15.15	0.89	23.55	6.87	6.54	4.51	-3.11	-1.45	-1.66	76.46	52.17	0
2000	238	13	333.64	12.11	350.87	13.45	357.4	25.67	7.19	7.17	4.5	-3.24	-1.41	-1.83	77.71	50.78	0
2000	238	14	315.2	14.42	334.14	19.39	349.7	44.22	6.23	6.03	3.92	-3.02	-1.46	-1.57	78.4	49.8	0
2000	238	15	294.9	27.97	323.18	23.94	335.6	47.85	5.38	4.8	3.07	-2.86	-1.41	-1.44	78.87	47.58	0
2000	238	16	281.68	27.25	321.72	24.07	339.69	47.42	4.95	4.56	3.08	-2.66	-1.31	-1.35	78.76	50.16	0
2000	238	17	337.33	12.82	348.67	11.42	358.76	26.76	5.21	4.53	2.08	-1.51	-0.93	-0.58	77.36	53.33	0
2000	238	18	352.77	8.28	16	6.15	8.84	15.15	4.13	3.62	1.95	1.84	-0.48	2.32	73.78	55.87	0
2000	238	19	353.93	6.27	13.1	7.81	20.41	12.4	3.94	5.44	3.77	4.28	2.73	1.54	70.64	56.11	0
2000	238	20	314.11	12.1	16.49	5.93	20.95	22.8	3.35	5.2	2.62	5.45	4.61	0.84	67.91	56.09	0
2000	238	21	201.13	42.94	18.81	5.74	23.15	15.35	2.22	5.5	3.68	3.31	1.79	1.52	65.68	56.63	0
2000	238	22	311.76	56.06	11.54	17.06	58.23	22.07	1.5	3.36	2.11	3.53	2.51	1.03	63.97	56.03	0
2000	238	23	216.57	53.45	14.79	7.71	26.91	13.51	1.6	4.86	3.21	4.41	3.1	1.31	62.96	55.6	0
2000	239	0	39.87	25.94	17.16	5.14	20.75	10.53	1.87	6.23	3.86	3.52	2.63	0.89	61.92	54.62	0
2000	239	1	16.87	17.58	15.2	4.48	25.52	10.09	1.42	6.21	4.35	4	3.1	0.9	61.23	53.76	0
2000	239	2	7.27	8.51	17.18	4.94	25.85	10.76	3.42	6.66	4.42	4.5	3.93	0.57	60.57	53.56	0
2000	239	3	336.08	22.87	22.77	6.17	29.15	13.59	3.39	7.57	4.87	5.03	4.87	0.16	60.07	53.18	0
2000	239	4	247.67	63.95	24.24	6.46	37.58	16.82	1.7	6.75	3.66	3.32	2.77	0.54	59.89	53.4	0
2000	239	5	317.28	49.86	22.55	6.81	32.75	14.21	4.15	7.45	5.43	3.08	2.64	0.44	60.03	53.52	0
2000	239	6	306.3	19.96	23.86	8.99	35.41	17.01	4.83	6.29	3.99	1.46	1.92	-0.46	60.82	54.07	0
2000	239	7	334.86	23.08	38.22	24.15	34.08	15.6	2.88	2.9	2.93	-0.74	0.12	-0.87	63.35	55.15	0
2000	239	8	61.7	44.68	36.02	43.74	12.17	29.03	1.95	2.12	1.98	-2.02	-0.98	-1.04	67.58	56.59	0
2000	239	9	40.4	19.71	26.24	25.79	4.42	26.57	2.89	2.77	2.58	-1.79	-0.75	-1.04	71.08	56.96	0
2000	239	10	105.49	37.67	315.7	36.58	304.66	34.95	2.42	2.8	2.96	-2.49	-1.06	-1.43	74.97	57.76	0
2000	239	11	135.1	20.95	191.32	22.38	189.3	48.66	3.83	3.99	3.27	-2.65	-1.13	-1.52	78.13	56.37	0
2000	239	12	177.63	28.6	201.12	32.6	206.53	46.03	3.48	3.68	3.18	-2.73	-1.21	-1.52	79.01	55.62	0
2000	239	13	197.48	24.3	204.42	28.32	196.58	32.33	4.52	4.62	3.78	-3.26	-1.49	-1.77	80.16	55.78	0
2000	239	14	236.22	32.1	251.1	33.77	234.92	48.67	4.08	4.04	3.31	-3.03	-1.33	-1.7	80.73	55.52	0
2000	239	15	203.69	52.06	225.77	45.61	229.76	55.78	2.89	2.97	2.82	-2.69	-1.19	-1.5	81.03	55.42	0
2000	239	16	162.58	17.74	171.85	16.14	174.4	23.97	3.66	3.71	3.15	-2.45	-1.03	-1.42	80.95	56.1	0
2000	239	17	151.23	6.09	168.21	7.71	178.05	11.34	3.88	3.96	2.63	-1.01	-0.54	-0.48	79.01	57.83	0

2000	239	18	151.08	5.36	184.47	8.11	208.07	32.3	4.46	4.29	1.47	1.4	0.02	1.38	75.75	58.91	0
2000	239	19	172.35	10.05	229.75	28.05	338.7	33.24	3.78	2.65	1.49	2.88	0.53	2.36	72.26	59.41	0
2000	239	20	154.68	10.72	254.36	43.75	2.2	32.75	4.51	2.2	1.98	1.62	0.08	1.54	70.39	60.63	0
2000	239	21	179.87	10.36	297.98	24.03	353.43	10.17	3.85	2.3	1.86	2.51	0.49	2.01	68.82	60.56	0
2000	239	22	157.73	10.16	318.44	32.62	7.12	12.92	3.45	1.95	1.81	3.15	0.78	2.37	67.11	59.34	0
2000	239	23	172.35	8.34	0.07	21.59	0.52	10.19	3.3	2.21	1.51	3.3	0.93	2.38	65.79	58.43	0
2000	240	0	179.07	10.06	333.51	21.62	357.48	10.25	3.32	2.03	1.51	2.63	0.86	1.77	65	58.18	0
2000	240	1	167.39	10.31	305.37	33.9	9.5	16.8	3.68	1.93	1.37	2.37	0.36	2.01	64.25	57.45	0
2000	240	2	153.07	7.65	310.12	32.47	3	13.77	4.27	1.86	1.7	1.6	0.36	1.24	64.4	57.93	0
2000	240	3	161.93	5.78	287.1	45.41	37.08	23.13	4.61	1.64	1.2	1.66	0.38	1.28	64.09	57.74	0
2000	240	4	155.07	9.84	283.69	42.92	18.05	15.78	4.34	2.03	1.57	1.2	0.06	1.14	64.01	57.69	0
2000	240	5	155.49	9.96	260.55	57.43	42.25	23.98	4.6	1.66	1.34	1.16	-0.08	1.24	63.87	57.77	0
2000	240	6	174.22	25.52	330.69	66.5	42.02	33.99	2.91	1.94	1.95	0.45	-0.09	0.55	64.59	58.19	0
2000	240	7	161.5	12.95	179.49	30.93	161.77	19.91	3.48	2.27	1.69	-1.54	-0.73	-0.81	67.35	59.12	0
2000	240	8	137.34	20.67	157.79	20.69	181.38	31.14	3.11	3.12	2.63	-2.63	-1.2	-1.43	70.44	59.49	0
2000	240	9	159.95	15.7	184.13	17.13	183.57	22.12	3.94	4.37	3.49	-2.65	-1.12	-1.52	73.25	59.64	0
2000	240	10	167.95	15.35	183.88	15.16	187.46	23.52	4.75	4.9	4.11	-2.75	-1.14	-1.61	75.75	61.15	0
2000	240	11	144.23	21.66	175.73	24.8	195.26	31.94	4.3	4.2	3.42	-2.82	-1.2	-1.62	78.66	62.93	0
2000	240	12	146.74	10.85	161.85	11.8	168.41	27.82	6.11	5.87	3.91	-3	-1.18	-1.82	80.83	62.85	0
2000	240	13	131.15	10.45	154.86	12.57	166.37	32.71	6.4	6.1	3.67	-3.18	-1.26	-1.93	81.94	62.13	0
2000	240	14	128.7	6.71	152.83	9.72	159.21	31.92	6.9	6.29	3.13	-2.69	-1.12	-1.58	81.65	62.6	0
2000	240	15	143.71	12.97	159.23	15.08	173	24.47	4.55	4.2	3.19	-2.77	-1.09	-1.68	82.73	61.98	0
2000	240	16	129.7	11.88	153.6	14.7	141.95	18.03	2.53	2.38	1.59	-1.74	-1	-0.74	81.85	61.5	0
2000	240	17	86.32	41.92	89.44	46.81	231.98	47.33	2.03	1.86	1.33	-1.13	-0.95	-0.19	80.53	62.65	0
2000	240	18	118.03	21.35	139.29	20.8	196.41	13.43	3.8	3.64	1.5	-0.3	-0.84	0.54	77.92	62.87	0
2000	240	19	138.11	6.38	156.99	9.03	160.65	16.39	6.77	5.21	1.47	-0.44	-0.85	0.41	75.82	63.7	0
2000	240	20	153.98	3.93	168.21	6.63	174.51	14.24	7.75	6.47	2.32	-0.61	-0.84	0.22	74.56	64.56	0
2000	240	21	139.21	3.58	151.2	4.37	100.68	16.61	4.64	4.34	1.58	-0.58	-0.91	0.33	73.56	64.08	0
2000	240	22	115.12	6.53	81.78	18.97	19.55	17.86	3.95	3.69	2.12	0.01	-0.48	0.49	72.06	63.23	0
2000	240	23	93.15	15.17	31.04	12.77	29.53	18.5	3.76	3.63	2.88	0	-0.28	0.28	70.78	62.78	0
2000	241	0	39.02	25.07	23.11	5.96	19.39	12.41	3.11	5.14	3.65	-0.24	-0.29	0.05	70.31	62.62	0
2000	241	1	30.74	7.5	27.69	5.94	28.59	11.03	4.74	6.68	4.46	0.21	0.18	0.03	69.36	62.54	0
2000	241	2	25.54	5.52	32.32	4.59	33.82	11.47	7.98	7.42	4.62	-0.13	-0.26	0.13	68.89	62.86	0
2000	241	3	16.29	7	36.71	6.6	33.06	11.15	7.35	6.77	4.63	-0.73	-0.15	-0.58	68.22	62.69	0
2000	241	4	11.56	6.53	32.14	5.98	37.68	13.68	7.9	7.97	4.64	-1.26	-0.8	-0.46	68.71	63.26	0
2000	241	5	34.01	10.69	36.49	10.6	26.26	15.29	6.89	6.07	4.17	-1.89	-1	-0.89	69.33	63.48	0
2000	241	6	41.67	14.6	45.42	15.38	30.32	19.71	7.24	6.03	4.15	-2.15	-1.19	-0.96	69.71	63.09	0
2000	241	7	35.04	14.14	43.17	18.27	27.84	25.18	8.53	7.01	4.84	-2.39	-1.26	-1.13	70.26	62.38	0
2000	241	8	18.13	9.52	26.47	12.01	25.4	17.28	11.06	9.7	6.6	-2.58	-1.36	-1.21	69.88	61.78	0
2000	241	9	40.64	10.09	49.15	13.54	40.92	21.24	7.18	6.24	4.24	-2.34	-1.24	-1.09	70.48	61.97	0
2000	241	10	13.25	19.9	21.32	19.59	27.79	23.69	5.32	4.66	3.2	-2.27	-1.19	-1.08	71.71	62.54	0
2000	241	11	7.94	13.74	18.19	19.19	26.2	20.32	6.09	5	3.88	-2.27	-1.22	-1.05	73.11	62.73	0
2000	241	12	27.93	20.5	40.36	23.31	32.9	24.56	6.5	6.02	4.47	-2.62	-1.28	-1.34	75.02	63.78	0
2000	241	13	84.16	19.35	98.66	24.6	86.9	52.42	6.69	5.51	2.84	-2.56	-1.26	-1.3	76.8	64.4	0
2000	241	14	175.4	16.85	195.5	23.28	187.31	33.34	8.19	6.71	3.05	-1.62	-0.92	-0.7	74.26	65.36	0.06
2000	241	15	158.41	12.27	181.18	23.58	181.84	43.56	7.49	5.71	2.84	-1.37	-0.75	-0.62	74.35	66.38	0
2000	241	16	128.88	12.18	158.99	13.84	165.33	20.36	3.58	3.07	2	-1.86	-1.06	-0.8	74.76	65.57	0
2000	241	17	146.06	14.55	200.26	15.25	217.31	28.48	3.79	3.48	1.69	-1.01	-0.9	-0.11	73.9	64.08	0
2000	241	18	121.19	10.76	150.02	21.03	24.59	35.86	5.21	2.96	1.22	-0.14	-0.8	0.66	72.78	65	0

2000	241	19	101.98	16.18	112.14	20.78	81.62	30.61	6.34	4.62	1.99	-1.42	-1.08	-0.35	72.7	64.47	0
2000	241	20	95.18	21.5	111.11	38.15	112.21	56.56	5.55	3.57	1.68	-1.7	-1.1	-0.6	71.64	64.01	0
2000	241	21	98.26	11.8	118.02	18.14	135.89	44.41	8.25	5.96	1.98	-1.5	-0.99	-0.51	70.76	63.29	0
2000	241	22	110.34	11.33	127.39	15.98	132.22	37.36	8.67	5.97	1.91	-1.53	-1	-0.53	70.07	62.44	0
2000	241	23	115.66	11.95	136.16	15.79	157.68	37.82	7.7	4.85	1.86	-1.65	-1.03	-0.62	69.79	61.73	0
2000	242	0	112.31	17.76	135.59	13.23	137.27	28.03	6.36	4.9	1.72	-1.5	-1.02	-0.48	69.33	61.39	0
2000	242	1	82.15	15.26	89.94	17.31	77.23	34.44	5.96	4.64	2.14	-1.64	-1.05	-0.59	68.91	60.99	0
2000	242	2	56.42	30.95	69.84	47.64	60.67	51.32	5.61	4.33	2.88	-1.99	-1.14	-0.85	68.56	60.44	0
2000	242	3	84.29	24.93	95.26	39.62	79.02	43.67	5.17	3.66	2.19	-2.03	-1.14	-0.89	67.88	59.57	0
2000	242	4	81.3	16.91	91.11	21.44	73.9	35.66	6.75	5.11	2.34	-1.88	-1.11	-0.77	67.36	58.67	0
2000	242	5	34.69	14.32	45.57	13.14	28.43	14.84	6.28	5.63	4.22	-2.09	-1.14	-0.96	67.16	58.07	0
2000	242	6	38.94	17.82	49.13	15.06	33.77	19.2	5.41	5.11	3.74	-2.25	-1.2	-1.06	66.85	57.03	0
2000	242	7	32.21	15.85	43.35	17.53	28.39	20.57	7.03	6.1	4.44	-2.39	-1.23	-1.16	67.36	56.94	0
2000	242	8	69.18	18.59	78.7	21.03	61.41	40.36	6.42	5.93	4.04	-2.51	-1.25	-1.26	69.08	56.41	0
2000	242	9	92.91	15.56	111.49	18.3	101.77	44.75	8.35	7.32	3.42	-2.91	-1.29	-1.62	71.55	56.53	0
2000	242	10	93.1	13.47	106.1	17.31	95	51.08	10.42	9.14	4.53	-3.07	-1.39	-1.68	73.58	56.54	0
2000	242	11	97.56	14.56	111.51	20.22	92.26	50.89	9.52	8.54	4.38	-3.15	-1.37	-1.78	75.2	55.84	0
2000	242	12	86.32	13.9	99.15	18.36	70.46	40.19	10.51	9.42	5.22	-3.01	-1.37	-1.64	75.78	56.35	0
2000	242	13	95.32	11.52	109.67	15.94	101.26	44.54	11.74	10.3	4.75	-3.65	-1.64	-2.01	76.64	56.16	0
2000	242	14	84.59	11.81	97.77	17.98	75.57	49.29	11.5	10.22	5	-3.17	-1.44	-1.73	76.17	55.45	0
2000	242	15	83.77	9.72	98.86	13.22	82.01	40.83	9.62	8.59	4.17	-2.86	-1.34	-1.52	76.06	55.78	0
2000	242	16	96.68	8.37	111.59	11.89	102.98	39.73	10.91	9.91	3.73	-2.29	-1.19	-1.11	74.83	54.42	0
2000	242	17	104.45	12.52	118.62	14.67	114.77	36.7	8.15	6.62	2.24	-1.43	-1	-0.43	72.02	51.47	0
2000	242	18	85.23	16.49	95.75	16.67	66.5	21.36	6.78	5.95	3.06	-1.49	-1.07	-0.42	70.21	49.38	0
2000	242	19	62.03	12.62	76.12	16.45	55.72	21.93	7.02	5.35	2.76	-1.58	-1.09	-0.49	68.18	48.3	0
2000	242	20	41.61	21.83	48.85	23.81	34.98	33.51	5.36	4.26	2.41	-1.48	-1.06	-0.42	66.59	47.4	0
2000	242	21	28.65	25.36	41.5	19.7	37.88	32.19	4.47	3.74	2.04	-1.39	-1.08	-0.3	65.97	46.86	0
2000	242	22	22.03	13.85	26.63	14	20.52	20.92	5.54	5.14	3.18	-1.5	-1.09	-0.4	65.37	47.26	0
2000	242	23	14.88	19.44	30.19	12.83	20.07	17.23	5.4	4.97	3.57	-1.98	-1.06	-0.92	65.4	46.73	0
2000	243	0	7.58	17.24	22.76	12.42	21.53	16.56	6.07	5.74	4.45	-1.93	-1.07	-0.86	65.57	45.32	0
2000	243	1	5.15	14.36	24.98	14.87	31.62	17.12	7.55	6.36	4.17	-1.82	-1.03	-0.78	65.83	46.34	0
2000	243	2	9.25	12.44	25.86	12.61	24.38	17.92	8.61	7.63	5.69	-2.07	-1.12	-0.94	65.26	47.73	0
2000	243	3	0.67	21.46	22.68	16.74	26.78	20.02	7.57	6.51	4.57	-2.04	-1.14	-0.91	64.96	48.91	0
2000	243	4	7.41	16.55	23.46	16.35	21.47	18.54	7.3	6.43	4.63	-2.13	-1.17	-0.97	64.51	51.72	0
2000	243	5	7.7	17.34	25.86	17.31	28.55	21.46	6.66	6.11	4.29	-2.15	-1.16	-1	64.07	53.6	0
2000	243	6	357.86	19.76	13	16.72	17.48	22.49	6.98	6.16	4.1	-2.21	-1.19	-1.02	63.99	54.21	0
2000	243	7	356.68	20.16	10.56	17.74	17.04	22.9	7.01	6.01	4.01	-2.34	-1.2	-1.14	64.28	55.09	0
2000	243	8	2.18	27.85	27.84	32.09	36.73	44.5	4.72	4.38	3.19	-2.46	-1.24	-1.22	64.75	56.11	0
2000	243	9	342.5	38.63	347.81	32.31	2.11	59.1	3.31	3.56	2.74	-2.69	-1.28	-1.41	66.01	57.29	0
2000	243	10	346.53	23.12	354.8	19.59	0.58	26.1	5.28	5.01	3.56	-2.6	-1.27	-1.33	67.8	58.81	0
2000	243	11	9.22	38.92	11.53	36.4	18.21	36.15	3.21	3.48	3.24	-2.43	-1.14	-1.29	70.17	60.49	0
2000	243	12	16.75	27.46	354.53	18.27	351.17	26	4.01	4.59	4.03	-2.15	-0.83	-1.33	72.29	62.07	0
2000	243	13	336.63	54.73	345.13	49.44	358.89	65.33	4.7	4.5	3.28	-2.78	-1.33	-1.45	75.22	63.41	0
2000	243	14	185.55	41.05	232.21	28.12	207.09	31.51	3.99	4.3	4.21	-2.88	-1.41	-1.47	77.45	64.1	0
2000	243	15	133.11	15.2	185.05	15.73	187.9	17.99	5.97	5.99	4.69	-2.8	-1.18	-1.62	78.65	64.37	0
2000	243	16	125.87	9.66	165.29	15.45	169.34	33.36	5.33	5	3.28	-2.77	-1.22	-1.55	79.07	64.77	0
2000	243	17	118.28	5.93	161.55	7.39	177.85	21.01	5.87	4.73	2.36	-1.87	-1.04	-0.84	77.57	64.97	0
2000	243	18	121.05	5.35	169.2	7.73	177.34	14.92	7.19	6.46	3.37	-1.5	-0.99	-0.51	75.93	65.74	0
2000	243	19	97.11	8.19	161.58	8.27	170.4	11.78	4.88	4.67	1.6	-1	-0.91	-0.09	74.4	65.83	0

2000	243	20	119.89	6.43	159.03	6.33	165.61	10.13	4.52	3.83	1.36	-1.06	-0.97	-0.09	73.11	65.11	0
2000	243	21	121.97	9.45	139.39	10.76	79.77	20.99	3.37	2.97	2.02	-0.86	-0.96	0.1	72.31	64.64	0
2000	243	22	128.91	13.12	131.37	14.2	104.84	25.01	2.45	2.62	1.73	-0.6	-1.01	0.41	71.72	64.38	0
2000	243	23	63.36	37.38	80.7	12.29	60.91	17.05	2.4	3.68	2.08	-0.94	-0.84	-0.1	71.58	64.34	0
2000	244	0	40.84	9.1	38.09	10.99	30.78	13.81	3.29	3.49	1.92	-0.69	-0.48	-0.22	70.9	64.43	0
2000	244	1	51.86	14.2	39.23	9.44	43.6	22.42	2.88	3.53	2.26	-0.88	-0.42	-0.46	70.77	64.43	0
2000	244	2	26.56	7.91	41.08	10.68	29.82	15.83	4.29	5.08	3.71	-1.16	-0.38	-0.78	70.71	64.48	0
2000	244	3	35.29	11.31	39.69	7.72	22.99	12.17	3.98	5.24	4.12	-0.94	-0.04	-0.9	70.48	64.71	0
2000	244	4	31.58	8.89	25.85	9.33	15.35	14.33	5.12	5.56	4.2	-1.2	-0.38	-0.82	70.44	65.14	0
2000	244	5	41.93	9.22	45.7	14.82	30.77	14.95	6.02	4.52	3.21	-1.56	-0.69	-0.87	70.48	65.12	0
2000	244	6	47.79	22.16	55.72	21.79	48.21	24.29	2.84	2.75	2.17	-2.05	-1.09	-0.96	71.05	65.24	0
2000	244	7	90.13	23.51	97.68	24.32	104.68	37.9	2.27	2.17	1.62	-2.29	-1.21	-1.08	71.75	65.45	0
2000	244	8	141.83	53.28	216.58	74.15	217.37	58.11	1.84	1.74	1.8	-2.09	-1.09	-1	72.69	65.91	0
2000	244	9	317.94	47.7	307.56	38.18	300.78	55.23	3.05	3.13	2.56	-2.43	-1.22	-1.21	74.62	66.34	0
2000	244	10	321.05	50.79	328.75	39.56	358.2	40.92	2.96	2.94	2.8	-2.25	-1.13	-1.12	76.33	65.33	0
2000	244	11	174.4	22.23	195.33	26.21	182.93	43.12	5.62	5.43	4.39	-3.07	-1.31	-1.75	79.97	64.7	0
2000	244	12	138.43	16.61	162.48	19.8	174.83	31.1	5.83	5.71	4.5	-3.3	-1.36	-1.94	81.62	63.97	0
2000	244	13	166.8	17.14	187.57	19.36	192.43	21.55	5.57	5.45	4.5	-2.95	-1.27	-1.68	82.42	63.93	0
2000	244	14	165.11	13.06	185.47	13.48	188.93	17.56	6.16	6.41	5.27	-3.06	-1.34	-1.72	83.38	64.34	0
2000	244	15	153.87	9.04	170.49	11.52	182.46	20.79	7.73	7.94	6.08	-3.16	-1.27	-1.9	83.65	65.91	0
2000	244	16	149.96	6.49	164.18	10	173.26	24.13	11.23	9.55	5.85	-2.93	-1.25	-1.68	82.49	66.96	0
2000	244	17	145.99	5.93	162.27	9.36	175.77	21.32	10.01	7.53	3.98	-2.13	-1.05	-1.07	80.78	67.01	0
2000	244	18	140.81	4.66	154.7	8.23	169.46	25.47	10.56	7.66	3.09	-1.39	-0.94	-0.44	79.02	65.85	0
2000	244	19	140.86	4.96	153.22	9.27	171.88	25.02	9.71	7.03	2.42	-1.27	-0.98	-0.28	77.75	66.03	0
2000	244	20	143.75	4.42	157.71	7.51	168.65	22.94	11.18	7.85	3.57	-1.48	-1.01	-0.47	76.78	66.26	0
2000	244	21	151.14	4.3	158.84	6.32	173.05	20.11	8.68	6.67	2.45	-1.13	-0.89	-0.23	75.44	66.85	0
2000	244	22	155.77	3.09	159.07	5.98	139.18	13.39	5.8	4.69	1.26	-0.4	-0.69	0.29	73.92	67.51	0
2000	244	23	159.68	3.01	156.31	2.32	142.08	26.03	6.63	5.81	1.27	0.02	-0.74	0.75	72.86	66.18	0
2000	245	0	162.24	4.21	163.49	6.29	166.03	13.97	7.04	5.08	1.39	-0.57	-0.64	0.07	73.04	66.6	0
2000	245	1	190.61	13.84	167.01	28.47	116.36	31.23	3.03	2.15	1.83	-0.83	-0.8	-0.02	73.02	65.87	0
2000	245	2	194.15	17.2	187.67	18.7	127.16	30.49	3.05	1.96	1.68	-0.92	-0.89	-0.03	73.05	66.26	0
2000	245	3	189.93	44.99	135.98	40.81	65.88	14.26	2.38	2.08	1.55	-1.21	-0.85	-0.37	73.51	66.47	0
2000	245	4	68.66	14.65	69.76	7.94	49.16	16.85	3.01	4.54	2.58	-1.01	-0.71	-0.3	73.36	66.38	0
2000	245	5	66.61	10.68	46.39	10.66	27.13	15.46	4.42	4.68	3.46	-1.24	-0.55	-0.69	73.32	67.04	0
2000	245	6	116.9	33.9	155.5	42.71	199.47	41.3	5.09	2.93	1.97	-1.5	-0.72	-0.78	73.22	66.5	0
2000	245	7	152.67	10.4	168.32	12.2	182.8	21.05	5.46	5.03	3.69	-2.15	-1.07	-1.08	74.66	65.62	0
2000	245	8	152.9	10.44	169.48	13.06	182.02	20.34	5.7	5.6	4.22	-2.6	-1.25	-1.35	76.25	66.8	0
2000	245	9	139.52	9.16	152.55	12.05	168.94	31.82	5.23	5.12	3.06	-2.54	-1.18	-1.36	76.72	67.47	0
2000	245	10	131.14	10.93	147.35	15.76	158.13	29.05	4.39	4.22	2.98	-2.73	-1.26	-1.47	78.17	67.46	0
2000	245	11	143.83	31.1	171.17	61	133.23	58.73	3.68	3.51	2.77	-2.56	-1.17	-1.39	79.65	67.65	0
2000	245	12	140.71	7.38	156.39	12.97	178.14	27.39	6.7	5.2	3	-2.07	-0.89	-1.18	78.97	67.72	0.08
2000	245	13	134.13	14.88	150.52	26.1	170.23	50.32	6.96	4.77	2.48	-1.75	-0.96	-0.78	79.48	69.42	0.02
2000	245	14	133.4	3.84	151.28	7.61	160.52	38.3	13.18	11.07	4.23	-1.8	-0.95	-0.85	81.34	67.56	0
2000	245	15	140.65	3.73	156.84	8.48	166.11	32.1	13.58	9.98	4.36	-1.72	-0.93	-0.79	81.77	67.59	0
2000	245	16	147.65	3.49	161.91	7.87	169.34	24.67	12.11	9.57	4.37	-1.01	-0.69	-0.32	80.39	67.14	0
2000	245	17	162.9	4.02	174.35	7.48	177.03	16.33	11.51	8.84	3.9	-1.04	-0.9	-0.14	78.93	66.26	0
2000	245	18	160.26	3.53	171.06	6.03	172.03	16.73	7.18	6.28	2.17	-0.69	-0.87	0.18	77.51	66.67	0
2000	245	19	158.23	4.1	160.17	10	132.03	16.59	6.26	4.12	1.52	-0.07	-0.48	0.42	75.88	67.37	0
2000	245	20	167.75	10.4	132.51	48.05	30.66	16.59	3.89	1.76	1.67	-0.64	-0.66	0.02	75.17	67.77	0

2000	245	21	164.6	10.23	176.68	22.54	35.87	4.99	2.55	1.67	1.31	-0.64	-0.68	0.04	74.61	68.09	0
2000	245	22	181.6	53.12	36.27	18.2	15.39	9.2	1.7	2.31	2.23	-0.74	-0.45	-0.29	74.27	68.18	0
2000	245	23	192.76	10.24	185.76	15.14	85.65	16.61	4.1	2.93	1.46	-0.46	-0.67	0.2	73.69	67.67	0
2000	246	0	190.02	5.11	194.58	5.44	161.54	2.78	7.04	5.46	1.3	-0.35	-0.64	0.29	73.62	67.51	0
2000	246	1	185.54	3.76	199.18	3.97	190.86	9.39	8.37	7.46	3.47	-0.8	-1.04	0.24	73.94	67	0
2000	246	2	180.92	4.74	194.95	3.63	193.11	11.99	7.86	7.19	2.51	-0.81	-1.05	0.24	73.74	66.64	0
2000	246	3	205.13	46.64	210.66	35.14	218.88	45.08	4.43	3.63	1.36	-0.96	-0.97	0.01	73.34	66.9	0
2000	246	4	152.67	28.87	147.02	20.79	74.8	21.31	3.09	2.53	1.32	-1.25	-0.95	-0.29	73.24	66.36	0
2000	246	5	182.94	5.67	198.07	6.88	170.14	7.25	4.56	3.85	1.3	-0.95	-0.66	-0.3	72.88	66.52	0
2000	246	6	188.28	20.41	208.61	13.67	183.42	11.52	2.31	3.18	1.76	-1.13	-0.69	-0.44	73.45	66.65	0
2000	246	7	150.02	38.14	165.56	23.28	177.58	11.23	1.16	1.67	1.19	-1.67	-0.76	-0.9	74.13	67.55	0
2000	246	8	165.67	26.01	182.48	29.44	179.45	35.75	3.31	3.44	2.8	-2.32	-1.16	-1.16	75.33	68.55	0
2000	246	9	160.62	22.09	160.02	21.59	183.01	36.11	3.65	3.54	2.59	-2.28	-1.04	-1.24	76.56	68.82	0
2000	246	10	182.09	24.7	201	27.84	205.52	31.95	3.48	3.35	2.83	-2.22	-0.99	-1.24	78.56	69.78	0
2000	246	11	165.17	10.54	182.98	13.92	186.59	14.21	6.27	6.16	4.5	-2.15	-1.03	-1.12	78.11	70.04	0.01
2000	246	12	179.61	19.2	198.13	18.02	203.87	22.76	5.5	4.48	3.23	-1.71	-0.64	-1.07	77.33	69.25	0
2000	246	13	165.99	12.65	166.07	12.61	171.64	23.8	6.58	5.54	3.9	-2.89	-1.12	-1.77	81.09	69.85	0
2000	246	14	142.14	9.48	158	13.69	171.38	31.74	5.94	4.74	2.84	-2.38	-1.04	-1.34	80.71	69.82	0
2000	246	15	130.52	9.45	152.02	12.33	164.25	35.15	6.58	6.39	3.47	-2.74	-1.13	-1.6	82.54	69.99	0
2000	246	16	120.92	18.27	131.74	34.14	110.05	46.55	6.72	4.99	2.31	-1.69	-0.98	-0.71	81.43	68.69	0
2000	246	17	125.13	16.5	116.44	34.93	83.9	45.26	7.17	4.49	2.25	-1.74	-1.03	-0.71	80.65	68.76	0
2000	246	18	119.71	23.49	131.78	26.29	140.26	45.9	12.66	10.58	5.92	-2	-1.11	-0.89	75.54	64.39	0
2000	246	19	104.53	30.38	114.03	33.14	110.3	46.68	7.67	7.93	3.94	1.31	0.68	0.63	74.01	62.86	0
2000	246	20	207.43	37.45	265.77	47.94	173.43	41.52	3.99	4.49	2.44	1.7	1.09	0.61	73.27	64.24	0
2000	246	21	32.38	14.93	36.28	12.59	22.58	12.73	9	9.27	6.07	0.16	0.48	-0.32	71.22	64.57	0
2000	246	22	21.75	15.74	28	30.96	39.52	37.01	9.17	6.93	4.1	-0.52	-0.27	-0.25	72.4	64.26	0
2000	246	23	215.33	30.24	228.84	21.29	183.87	31.65	3.4	4.02	2	-0.18	-0.76	0.57	72.14	63.89	0
2000	247	0	205.77	11.04	212.49	17.85	184.75	17.6	6.18	4.98	1.37	0.77	-0.01	0.78	71.98	64.45	0
2000	247	1	275.44	33.56	337.03	25.76	43.54	36.96	4.62	5.14	3.3	-0.06	-0.14	0.08	71.72	64.19	0
2000	247	2	7.35	9.66	28.58	5.9	36.17	13.48	6.59	7.02	4.6	-0.29	-0.25	-0.05	70.93	64.16	0
2000	247	3	38.82	25.42	30.64	16.55	26.06	23.59	4.77	5.43	3.59	-0.42	-0.13	-0.29	70.96	64.44	0
2000	247	4	22.49	11.28	21.23	6.47	27.67	10.45	4.19	5.82	4.66	-0.83	-0.32	-0.51	71.13	65.1	0
2000	247	5	11.42	15.6	22.79	9.14	28.46	11.27	3.95	5.02	4.03	-1.38	-0.65	-0.73	71.46	65.34	0
2000	247	6	5.1	11.28	21.42	11.44	20.32	14.58	3.74	4.7	3.76	-1.27	-0.42	-0.85	71.64	65.02	0
2000	247	7	5.71	8.05	31	7.01	29.52	13.7	5.18	6.68	5.26	-0.9	0.01	-0.92	72.19	65.52	0
2000	247	8	2.24	7.12	23.39	8.72	25.36	14.17	6.46	6.69	5.36	-1.29	-0.37	-0.92	73.34	65.83	0
2000	247	9	7.31	12.62	13.95	17.06	12.91	18.79	5.87	5.76	4.49	-2.33	-1.18	-1.15	74.75	66.2	0
2000	247	10	7.28	10.33	17.96	13.91	17.24	17.6	6.57	6.6	5.12	-2.58	-1.22	-1.36	75.6	66.23	0
2000	247	11	353.62	13.66	6.95	14.41	3.4	19.87	6.66	6.73	5.09	-3.05	-1.46	-1.59	77.49	66.75	0
2000	247	12	347.42	11.26	1.77	13.89	5.96	18.22	7.07	7.63	5.47	-2.95	-1.33	-1.62	78.44	66.72	0
2000	247	13	8.78	20.92	14.67	24.46	16.65	28.63	5.77	5.6	4.41	-2.7	-1.33	-1.37	80.19	66.93	0
2000	247	14	57.53	32.1	68.8	35.87	61.46	42.45	4.19	3.99	3.14	-2.54	-1.21	-1.32	81.61	67.49	0
2000	247	15	153.77	12.4	175.42	13.03	180.78	24.34	6.89	7.18	4.86	-2.66	-1.17	-1.49	81.6	68.32	0
2000	247	16	161.58	11.82	168.92	11.58	174.01	21.36	8.69	7.71	4.49	-2.08	-0.86	-1.22	77.87	68.41	0
2000	247	17	169.77	7.33	176.78	9.52	176.38	23.27	8.24	6.76	3.18	-1.56	-0.86	-0.7	76.93	68.52	0
2000	247	18	175.64	44.68	197.41	10.09	178.73	11.97	5.47	5.08	2.07	-0.85	-0.94	0.09	76.17	66.64	0
2000	247	19	176.05	5.51	194.14	8.36	189.51	12.7	8.43	7.05	2.78	-1.14	-1.02	-0.12	75.69	67.18	0
2000	247	20	179.11	6.78	219.91	8.02	202.7	17.49	6.12	5.38	2.51	-1.2	-0.86	-0.34	75.26	67.18	0
2000	247	21	173.99	9.08	215.33	11.24	200.63	17.09	5.84	5.37	2.14	-1.29	-0.87	-0.42	74.9	67.04	0

2000	247	22	178.05	5.16	202.77	6.55	199.03	15.86	7.15	6.54	2.75	-1.21	-0.92	-0.29	74.54	67.7	0
2000	247	23	185.21	4.73	206.32	7.36	203.47	18.01	7.25	5.78	2.66	-0.91	-0.9	-0.01	73.97	67.15	0
2000	248	0	179.93	7.74	185.76	7.66	180.44	14.07	9.4	7.84	2.81	-0.71	-1	0.29	73.2	67.34	0
2000	248	1	182.67	5.94	191.59	7.57	187.75	12.92	9.21	8.19	4.26	-1.48	-1.11	-0.38	73.29	66.75	0
2000	248	2	179.53	13.52	190.62	14.12	191.31	16.12	4.37	3.94	1.44	-1.17	-0.97	-0.2	72.79	67.04	0
2000	248	3	166.53	11.16	197.47	25.89	204.81	21.4	3.51	2.92	1.29	-0.77	-0.54	-0.23	72.67	66.83	0
2000	248	4	166.74	25.53	211.86	32.12	240.57	29.85	2.61	2.35	1.24	-1.29	-0.82	-0.48	72.63	67.01	0
2000	248	5	290.59	60.49	270.99	68.41	176	12.07	1.38	0.98	0.99	-1.01	-1.03	0.03	72.37	66.84	0
2000	248	6	279.79	40.03	178.87	52.21	73.36	45.75	2.79	2.38	1.52	-0.47	-0.38	-0.09	72.33	67.15	0
2000	248	7	163.45	49.98	182.32	26.51	184	34.29	2.41	2.81	2.04	-1.76	-0.67	-1.09	74.33	67.57	0
2000	248	8	13.36	25.54	30.12	28.64	22.57	31.28	4.92	4.58	3.75	-2.24	-1.15	-1.09	75.4	67.51	0
2000	248	9	1.87	9.77	14.24	11.77	14.52	18	11.77	10.67	6.77	-2.97	-1.32	-1.65	76.11	67.09	0
2000	248	10	346.38	5.58	357.71	9.37	5.34	19.08	11.73	11.04	6.12	-2.83	-1.23	-1.6	75.9	65.96	0
2000	248	11	346.87	9.48	357.39	11.65	4.41	21.59	8.6	8.08	5.09	-2.9	-1.3	-1.6	77.64	65.56	0
2000	248	12	349.79	11.36	2.71	13.04	3.6	20.97	8.37	7.94	5.27	-3.1	-1.42	-1.68	78.94	65.75	0
2000	248	13	349.31	10.97	1.2	13.82	4.93	19.66	12.75	11.95	6.62	-2.86	-1.31	-1.56	79.29	65.33	0
2000	248	14	344.81	8.5	357.46	12.02	8.8	22.82	19.86	18.13	9.25	-2.71	-1.27	-1.44	75.25	64.68	0
2000	248	15	349.84	12.23	2.7	14.63	11.01	18.9	21.5	19.15	10.76	-2.6	-1.32	-1.27	69.66	61.72	0
2000	248	16	348.11	11.47	1.29	13.86	11.09	20.03	22.23	19.72	10.63	-2.77	-1.36	-1.41	68.95	58.8	0
2000	248	17	349.41	11.83	2.86	15.33	14.04	18.73	23.9	20.83	11.23	-2.6	-1.31	-1.29	67.37	55.58	0
2000	248	18	343.68	7.93	359.19	15.63	12.33	19.38	25.95	22.88	11.98	-2.4	-1.28	-1.12	64.37	51.66	0
2000	248	19	347.79	11.02	2.42	14.57	14.08	18.68	27.41	23.43	13.24	-2.4	-1.34	-1.06	62.25	49.69	0
2000	248	20	347.53	11.26	0.91	16	16.18	19.77	29.43	24.66	13.34	-2.36	-1.33	-1.03	61.83	47.37	0
2000	248	21	343.8	15	2.08	16.07	14.95	18.67	26.96	21.89	11.69	-2.24	-1.27	-0.96	61.29	45.45	0
2000	248	22	351.31	16.2	8.67	14.87	19.68	16.92	20.71	16.98	9.67	-2.16	-1.24	-0.92	60.43	44.92	0
2000	248	23	352.29	11.66	5.99	15.54	17.99	18.14	19.06	15.65	9.12	-2.17	-1.23	-0.94	59.61	44.82	0
2000	249	0	2.85	9.18	16.69	12.74	20.99	15.23	19.25	15.72	10.12	-2.05	-1.2	-0.85	58.58	45.24	0
2000	249	1	0.1	0.6	8.3	16.95	19.03	17.46	22.26	18.02	11.2	-2.16	-1.26	-0.9	57.13	44.58	0
2000	249	2	359.94	0.04	10.77	13.09	15.85	17.58	22.55	18.59	11.39	-2.22	-1.27	-0.95	55.33	41.04	0
2000	249	3	359.95	0.02	15.97	10.72	18.44	16.7	21.61	18.13	11.21	-2.12	-1.23	-0.89	53.78	37.99	0
2000	249	4	359.97	0.15	17.05	11.55	20.75	15.02	20.84	17.19	11.25	-1.99	-1.15	-0.84	52.34	37.23	0
2000	249	5	0.41	1.86	18.07	13.67	22.47	16.49	20.29	16.67	10.18	-2	-1.17	-0.83	51.21	36.75	0
2000	249	6	359.99	0.04	17.95	12.26	20.93	16.07	17.34	14.1	9.38	-2.16	-1.22	-0.94	50.63	37.25	0
2000	249	7	0.22	0.71	358.72	17.16	12.75	21.78	19.75	16.87	8.97	-2.89	-1.47	-1.41	52.25	37.62	0
2000	249	8	0.7	0.68	359.65	16.54	14.79	23.91	17.69	14.57	8.13	-3.27	-1.56	-1.71	54.26	37.72	0
2000	249	9	0.06	0.72	355.69	15.51	11.95	24.43	18.04	15.11	7.63	-3.64	-1.61	-2.03	56.29	38.28	0
2000	249	10	20.15	15.87	357.46	16.98	10.87	24.23	15.01	13.15	7.35	-3.6	-1.58	-2.02	58.25	37.89	0
2000	249	11	11.39	5.62	356.53	19.75	6.96	29.42	13.73	11.94	6.92	-3.77	-1.61	-2.16	60.68	38.06	0
2000	249	12	6.01	1.18	346.54	13.51	2.43	29.29	14.88	13.56	6.77	-3.79	-1.54	-2.25	62.25	38.85	0
2000	249	13	6.25	1.05	345.95	13.7	355.7	35.51	15.09	14.09	6.72	-3.64	-1.41	-2.23	63.33	39.42	0
2000	249	14	8.62	1.67	349.64	13.95	358.68	31.91	14.39	13.35	6.91	-3.51	-1.41	-2.1	64.25	40.55	0
2000	249	15	20.35	11.64	346	13.08	1.93	28.29	15.35	13.96	6.68	-3.36	-1.41	-1.95	64.74	41.33	0
2000	249	16	9.01	1.19	351.08	11.34	1.83	27.77	15.08	13.85	6.58	-2.98	-1.37	-1.61	64.67	41.44	0
2000	249	17	2.82	3.5	9.26	13.42	9.86	19.04	13.56	11.71	7.32	-2.57	-1.36	-1.21	64.22	40.72	0
2000	249	18	3.78	4.84	13.68	11.8	20.66	16.1	13.02	10.37	6.54	-1.88	-1.1	-0.77	62.36	40.22	0
2000	249	19	3.54	4.86	16.97	9.84	24.14	14.8	12.96	10.55	6.52	-1.43	-0.96	-0.47	60.35	39.9	0
2000	249	20	2.85	4.57	17.37	9.03	26.89	12.46	11.45	9.01	5.7	-0.77	-0.78	0.01	58.49	39.25	0
2000	249	21	6.46	6.49	13.21	8.54	26.43	9.96	9.81	7.46	4.37	-0.05	-0.36	0.31	56.87	41.4	0
2000	249	22	5.72	5.44	14.41	7.23	26.88	9.22	10.87	8.48	5.26	0.8	-0.07	0.87	55.74	41.19	0

2000	249	23	4.45	5.95	16.44	6.07	37.8	11.84	12.21	9.36	5.15	1.78	0.42	1.36	54.51	41.07	0
2000	250	0	4.69	10.64	14.66	7.69	24.46	10.79	13.24	10.05	5.91	0.97	0.31	0.66	54.2	41.09	0
2000	250	1	16.74	39.95	15.41	8.95	22.39	12.18	13.14	10.35	5.81	-0.17	-0.46	0.3	54.17	40.97	0
2000	250	2	7.02	18.02	18.06	10.17	18.44	16.11	14.23	11.46	6.83	-1.56	-1.05	-0.51	54.55	40.31	0
2000	250	3	12.01	20.98	17.75	12.48	23.79	15.83	13.48	10.77	6.66	-1.47	-0.98	-0.49	53.61	40.05	0
2000	250	4	11.3	16.15	12.67	16.55	29.5	16.74	13.48	10.47	6.82	-1.6	-1.07	-0.53	53.27	39.86	0
2000	250	5	10.1	8.63	10.84	14.39	24.77	18.87	14.32	11.94	7.59	-1.88	-1.18	-0.71	52.7	38.95	0
2000	250	6	6.12	11.41	22.67	13.78	28.89	15.38	13.21	10.93	7.59	-2	-1.12	-0.88	52.53	39.53	0
2000	250	7	4.44	9.99	26.53	11.87	25.92	15.71	12.36	11.06	8.15	-2.41	-1.22	-1.19	53.82	39.82	0
2000	250	8	4.23	5.15	39.05	21.03	26.59	26.21	7.81	7.19	5.5	-2.57	-1.26	-1.31	56.42	41.04	0
2000	250	9	9.29	9.24	67.06	54.29	30.89	75.91	4.49	4.15	3.22	-2.61	-1.3	-1.31	59.56	42.37	0
2000	250	10	5.02	3.53	63.62	34.08	38.81	45.12	6.3	5.76	4.22	-2.87	-1.3	-1.56	61.97	41.65	0
2000	250	11	10.08	7.82	41.37	44.12	31.92	56.86	6.72	6.37	4.68	-3.06	-1.35	-1.71	63.64	41.09	0
2000	250	12	12.7	8.38	2	30.33	5.39	45.39	7.33	6.79	4.91	-3.33	-1.46	-1.87	65.12	41.79	0
2000	250	13	6.45	5.71	64.51	42.71	51.74	44.44	6.19	5.1	4.19	-3.15	-1.55	-1.6	66.7	41.51	0
2000	250	14	28.65	11.22	254.38	56.24	240.3	55.19	5.03	4.64	3.54	-3.26	-1.55	-1.7	67.66	42.27	0
2000	250	15	230.24	63.52	270.44	50.16	250.68	63.67	3.73	3.7	3.11	-2.66	-1.23	-1.44	67.84	42.26	0
2000	250	16	94.44	24.83	109.36	36.25	127.03	50.99	4.54	4.3	2.57	-2.67	-1.2	-1.47	68.53	42.79	0
2000	250	17	133.36	23.14	152.84	15.4	151.01	27.27	3.65	3.63	2.22	-1.96	-1.08	-0.88	67.6	44.03	0
2000	250	18	196.16	29.39	210.44	22.69	224.24	23.82	3.7	3.55	1.54	0.48	-0.78	1.26	64.13	47.18	0
2000	250	19	189.1	13.5	230.72	10.53	276.75	25.9	6.42	4.51	1.28	0.19	-0.54	0.72	61.67	47.83	0
2000	250	20	255.21	30.58	334.86	29.78	354.44	23.63	4.3	3.7	2.31	0.57	-0.22	0.79	60.09	49.88	0
2000	250	21	218.18	44.49	20.87	9.98	28.43	15.14	2.22	4.34	3.17	2.16	0.65	1.51	57.14	49.32	0
2000	250	22	251.41	28.3	15.44	7.84	31.26	11.86	3.08	5.1	3.96	2.69	1.44	1.25	55.6	48.78	0
2000	250	23	192.36	56.73	347.62	47.19	35.94	11.6	3.16	3.19	2.69	1.99	0.26	1.74	54.29	47.79	0
2000	251	0	231.55	12.41	351.69	25.25	35.93	11.97	3.97	2.45	2.67	2.48	0.32	2.15	53.33	47.05	0
2000	251	1	256.85	13.77	10.51	11.47	29.66	11.53	4.82	4.49	3.72	3.39	1.2	2.2	52.49	46.7	0
2000	251	2	89.16	31.94	17.32	7.65	31.39	12.47	3.56	4.82	4.01	3.27	1.01	2.26	52.08	46.62	0
2000	251	3	119.42	40.18	19.53	5.66	38.4	13.1	2.05	6.22	4.1	3.72	2.02	1.7	51.57	46.2	0
2000	251	4	38.16	40.68	19.07	6.2	25.52	11.46	1.85	4.22	2.76	2.5	1.66	0.85	51.49	46.18	0
2000	251	5	359.97	0.06	24.09	17.44	26.72	13.22	2.05	2.86	2.09	2.13	0.49	1.65	50.88	45.29	0
2000	251	6	359.98	0.02	29.63	7.39	26.78	11.83	1.79	4.5	3.24	1.59	0.76	0.82	51.64	46.02	0
2000	251	7	359.99	0.02	49.11	21.46	32.53	18.41	2.91	3.51	3.22	-0.68	0.09	-0.76	54.73	47.58	0
2000	251	8	0	0.02	156.9	51.15	127.88	60.69	2.61	2.28	1.88	-2.29	-1.11	-1.18	59.13	48.37	0
2000	251	9	359.99	0.02	166.82	27.09	173.27	25.02	3.54	3.8	3.23	-2.7	-1.15	-1.55	62.74	49.56	0
2000	251	10	359.99	0.03	155.86	23.59	160.82	37.3	5.33	5.49	3.93	-2.84	-1.16	-1.68	65.4	48.63	0
2000	251	11	13.01	39.27	160.21	18.74	173	32.98	6.36	6.59	4.76	-3.54	-1.33	-2.21	67.44	48.39	0
2000	251	12	142.33	14.68	153.82	17.29	166	38.54	6.5	6.49	4.76	-3.76	-1.46	-2.3	68.92	48.56	0
2000	251	13	145.98	13.32	156.77	16.53	166.35	32.57	8.75	8.28	5.21	-3.97	-1.49	-2.48	70.67	49.47	0
2000	251	14	190.79	14.48	202.44	18.1	190.07	19.36	10.51	9.62	6.76	-3.45	-1.43	-2.02	71.94	47.54	0
2000	251	15	183.65	15.14	195.67	17.93	186.81	20.28	9.27	8.23	5.88	-3	-1.24	-1.76	72.33	47.05	0
2000	251	16	187.19	11.24	197.63	14.51	186.22	16.07	10.69	9.65	6.12	-2.7	-1.2	-1.5	72.26	48.29	0
2000	251	17	190.51	7.91	200.95	10.42	191.16	13.7	12.32	10.75	6.79	-1.77	-1.1	-0.67	70.65	48.93	0
2000	251	18	194.2	3.98	211.52	6.4	195.79	11.44	11.3	9.13	4.77	-0.82	-0.82	0.01	67.86	49.07	0
2000	251	19	206.65	4.57	227.3	10.42	189.63	14.44	9.38	6.61	2.58	0.28	-0.08	0.37	64.53	49.83	0
2000	251	20	187.14	4.47	206.9	8.04	187.7	13.03	10.55	7.81	3.85	0.39	-0.37	0.76	62.32	49.79	0
2000	251	21	186.27	2.64	202.39	4.74	200.15	11.87	12.08	9.13	4.3	0.11	-0.38	0.49	60.73	50.48	0
2000	251	22	190.65	6.04	200.16	4.16	192.66	9.67	11.88	9.16	4.43	0.35	-0.45	0.8	59.63	50.65	0
2000	251	23	115.89	16.21	199.82	5.15	180.01	10.87	12.01	10.22	4.76	0	-0.51	0.5	58.51	50.4	0

2000	252	0	94.24	9.65	194.3	4.21	186.12	9.93	9.39	8.88	4.07	-0.21	-0.6	0.39	57.65	50.37	0
2000	252	1	76.95	48.09	205.24	6.72	206.79	15.01	9.4	7.1	2.77	-0.23	-0.57	0.34	56.43	50.17	0
2000	252	2	175.09	6.47	213.47	9.89	207.63	12.32	6.92	5.53	2.92	-0.36	-0.4	0.04	55.82	50.17	0
2000	252	3	165.02	4.63	206.92	6.42	198.08	12.38	8.59	6.9	3.77	0.06	-0.17	0.23	54.6	49.42	0
2000	252	4	27.3	34.22	210.77	10.85	193.33	17.45	9.79	7.15	3.33	0.16	-0.04	0.2	54.15	48.93	0
2000	252	5	62.85	20.93	196.28	4.91	175.41	11.35	11.21	9.41	3.57	1.96	0.6	1.37	53.36	48.23	0
2000	252	6	52.91	7.21	197.44	6.38	194.69	14.31	10.12	7.22	3.53	0.76	0.61	0.15	54.61	48.99	0
2000	252	7	35.77	18.43	188.51	9.63	183.53	15.48	9.57	7.78	5.09	-1.86	-0.79	-1.07	57.99	50.24	0
2000	252	8	1.65	0.45	178.46	10.33	178.94	19.59	7.76	7.43	5.12	-2.77	-1.21	-1.57	61.75	51.68	0
2000	252	9	359.94	0	167.13	12.46	175.11	25.54	7.57	7.03	5.51	-3.02	-1.28	-1.75	65.53	53.42	0
2000	252	10	15.5	9.55	160.63	13.37	173.03	24.25	7.6	7	5.29	-3.24	-1.23	-2	69.34	55.15	0
2000	252	11	52.76	4.53	152.76	12.32	164.98	34.37	8.13	7.45	4.33	-3.72	-1.42	-2.3	71.8	56.42	0
2000	252	12	54.93	4.31	158.91	14.68	169.37	27.99	7.66	7.21	5.21	-3.65	-1.38	-2.27	73.9	57.48	0
2000	252	13	75.23	8.06	180.89	16.33	182.92	27.2	9.08	8.07	5.17	-3.26	-1.31	-1.96	76.26	58.2	0
2000	252	14	104.74	14	206.43	12.2	191.87	17.02	9.69	8.73	5.98	-2.85	-1.3	-1.55	77.26	58.55	0
2000	252	15	145.38	7.13	212.21	12.79	198.32	20.45	9.22	8.36	5.51	-2.66	-1.23	-1.43	77.7	58.91	0
2000	252	16	145.71	6.35	207.86	9.68	193.22	16.13	11.52	10.52	6.42	-2.33	-1.21	-1.12	76.77	59.52	0
2000	252	17	145.19	10.31	209.44	15.48	189.44	17.45	9.01	7.74	4.09	-1.55	-1.07	-0.48	74.96	59.21	0
2000	252	18	138.89	5	193.45	6.08	183.03	11.42	10.24	9.88	5.34	-1	-1.04	0.04	73.16	59.06	0
2000	252	19	138.86	6.19	194.44	7.94	181.72	11.1	9.97	9.57	4.66	-0.62	-1.05	0.44	71.86	58.72	0
2000	252	20	138.63	4.55	197.03	8.15	186.51	51.13	7.51	6.26	1.69	-0.05	-0.72	0.67	70.25	58.89	0
2000	252	21	145	12.94	222.37	33.45	47.56	33.59	5.38	3.17	1.48	0.18	-0.64	0.82	69.34	59.2	0
2000	252	22	130.23	12.21	195.96	45.52	59.5	37.66	4.53	2.89	1.58	0.83	-0.44	1.27	67.8	59.91	0
2000	252	23	136.44	11.57	175.83	14.74	175.22	38.66	5.35	4.46	2.07	1.41	-0.18	1.59	66.89	59.61	0
2000	253	0	127.87	22.86	198.43	43.81	160.14	39.78	5.06	3.89	1.88	0.36	-0.11	0.47	66.49	59.48	0
2000	253	1	176.97	21.3	219.98	42.51	139.09	55.25	4.2	3.22	1.75	-0.16	-0.62	0.46	66.32	59.13	0
2000	253	2	185.43	8.83	187.09	7.77	149.8	20.95	4.65	5.51	1.64	0.71	-0.02	0.72	65.51	58.1	0
2000	253	3	170.29	25.66	231.6	43.05	157.32	5.34	2.24	2.35	1.14	0.56	-0.11	0.67	65.51	57.75	0
2000	253	4	138.37	11.62	209.89	41.11	117.31	29.23	2.98	1.55	1.38	0.53	-0.01	0.54	65.3	57.37	0
2000	253	5	129.56	9.71	163.65	34.02	52.61	25.66	2.83	1.57	1.38	0.41	-0.21	0.61	65.1	57.93	0
2000	253	6	165.28	27.64	335.82	63.76	73.84	56.71	2.64	1.84	1.62	0.46	-0.21	0.68	65.22	58.39	0
2000	253	7	152.8	15.18	156.75	19.04	143.33	19.88	2.85	2.2	1.88	-1.46	-0.79	-0.67	67.59	60.57	0
2000	253	8	149.96	20.57	173.07	17.47	183.15	22.79	2.88	3.24	2.97	-2.28	-1.05	-1.24	70.47	61.74	0
2000	253	9	135.41	15.94	176.71	15.04	187.27	18.6	3.47	4.34	4.08	-2.7	-1.28	-1.42	72.91	61.76	0
2000	253	10	166.57	16.26	211.03	17.71	209.57	25.61	4.02	4.68	4.12	-2.32	-0.96	-1.36	74.92	61.87	0
2000	253	11	349.28	41.78	178.95	47.07	207.25	26.45	2.59	2.62	2.61	-2.45	-1.13	-1.33	76.01	62.51	0
2000	253	12	358.86	42.27	8.7	39.07	9.3	55.62	4.3	4.17	3.16	-2.93	-1.32	-1.6	79	63.39	0
2000	253	13	5.98	40.72	23.57	42.23	46.88	57.9	3.43	3.49	2.97	-2.9	-1.35	-1.55	80.48	63.97	0
2000	253	14	339.18	37.66	336.49	35.33	314.53	49.47	4.99	4.08	2.47	-1.97	-1.01	-0.96	79.75	64.46	0
2000	253	15	66.12	36.88	103.6	31.98	95.26	31.59	4.91	4.47	2.94	-1.17	-0.71	-0.46	77.69	65.13	0
2000	253	16	116.46	54.27	171.93	9.99	168.59	18.8	3.53	4.24	2.44	-0.99	-0.11	-0.88	75.8	65.35	0
2000	253	17	172.09	8.65	206.63	9.56	199.4	11.2	4.11	3.52	2.58	-0.8	-0.51	-0.3	74.96	64.71	0
2000	253	18	196.84	8.92	207.6	13.88	138.24	23.13	3.4	3.31	1.44	0.25	-0.56	0.82	73.59	63.83	0
2000	253	19	270.68	53.33	321.76	48.99	356.09	40.79	1.74	2.79	2.12	0.24	-0.19	0.43	72.27	64.25	0
2000	253	20	9.57	8.72	26.05	4.86	30.55	10.01	6.86	7.92	5.43	0.46	0.14	0.32	71.43	64.89	0
2000	253	21	10.47	9.85	27.55	6.91	40.37	17.13	5.86	6.21	3.99	0.78	0.45	0.33	70.55	63.41	0
2000	253	22	18.29	8.45	28.85	6.94	32.77	17.91	4.81	5.64	3.18	0.14	0.5	-0.37	70.12	63.24	0
2000	253	23	13.85	9.71	26.7	8.96	33.62	17.82	3.03	4.82	2.8	0.18	0.16	0.02	69.3	62.12	0
2000	254	0	25.82	13.86	21.92	5.93	30.95	10.85	2.71	5.1	3.56	1.09	1.16	-0.06	68.2	61.56	0

2000	254	1	21.02	5.08	23.93	5.21	31.52	10.41	3.59	6.53	5.68	1.76	1.24	0.52	67.59	62	0
2000	254	2	13.01	10.4	23.81	5.78	29.08	9.77	6.49	8.91	6.41	1.56	1.84	-0.28	67.17	62.19	0
2000	254	3	22.47	24.67	15.25	8.4	27.38	12.09	7.32	7.03	4.71	-0.56	-0.31	-0.25	67.42	62.24	0
2000	254	4	32.27	27.38	13.5	9.11	27.79	15.26	7.24	6.42	3.61	-0.62	-0.56	-0.07	67.23	61.6	0
2000	254	5	10.08	27.02	19.69	13.91	43.2	18.59	4.58	4.82	2.27	-0.68	-0.68	0	67.42	61.42	0
2000	254	6	4.47	8.93	32.1	7.23	34.76	12.74	7.54	7.48	4.83	-1.16	-0.49	-0.67	66.74	61.25	0
2000	254	7	1.18	11.88	29.4	10.89	34.28	15.54	6.79	5.4	3.91	-1.76	-0.81	-0.95	67.82	61.94	0
2000	254	8	21.26	16.4	37.2	17.83	35.56	21.1	6.06	5.69	4.15	-2.45	-1.26	-1.19	69.62	61.87	0
2000	254	9	32	47.14	13.51	33.69	25.2	26.7	3.72	3.74	3.6	-2.28	-1.06	-1.22	71.06	61.35	0
2000	254	10	224.91	43.57	265.18	26.84	259.93	33.77	4.3	4.55	3.88	-2.79	-1.17	-1.62	73.34	61.25	0
2000	254	11	195.7	17.97	210.67	21.13	199.19	23.17	5.39	5.39	4.76	-2.99	-1.28	-1.72	75.59	62.12	0
2000	254	12	180.93	12.62	196.57	13.53	190.02	21.6	6.39	6.11	4.91	-3.01	-1.28	-1.73	76.99	62.06	0
2000	254	13	162.61	9.48	182.35	12.81	187.53	18.55	6.7	6.65	5.22	-2.9	-1.27	-1.63	78.15	61.81	0
2000	254	14	156.26	10.03	175.38	11.68	180.08	22.64	7.15	7.52	5.82	-3.03	-1.27	-1.76	78.95	61.78	0
2000	254	15	151.89	9.13	167.39	10.49	176.58	26.29	6.25	6.34	4.42	-3	-1.13	-1.87	79.45	61.1	0
2000	254	16	144.48	6.85	163.13	10.38	176.22	19.5	8.69	7.49	4.4	-2.41	-1.11	-1.3	78.5	61.11	0
2000	254	17	133.82	5.56	149.99	8.2	157.51	27.86	7.86	6.26	2.02	-1.39	-1.01	-0.38	75.88	59.99	0
2000	254	18	137.97	3.39	151.74	5.29	161.46	25.23	9.22	7.34	2.07	-0.4	-0.73	0.33	73.24	56.93	0
2000	254	19	136.83	2.68	145.84	3.58	104.52	17.05	9.52	7.65	2.22	0.66	-0.46	1.12	70.92	57.35	0
2000	254	20	133.21	5.7	151.98	2.93	122.27	22.78	7.61	7.67	1.91	1.53	-0.62	2.16	69.19	56.9	0
2000	254	21	160.43	4.24	156.18	3.02	132.31	16.44	7.32	6.3	1.18	1.75	-0.72	2.47	68.01	54.78	0
2000	254	22	154.9	4.05	158.55	4.58	176.24	13.43	6.19	5.96	1.6	1.58	0.07	1.51	67.31	55.15	0
2000	254	23	154.41	4.78	163.09	10.27	164.93	14.35	6.93	5.31	1.49	0.62	-0.34	0.96	67.51	55.74	0
2000	255	0	161.29	11	170.94	11.22	149.08	24.26	3.84	3.2	1.51	-0.66	-0.86	0.2	67.65	57.26	0
2000	255	1	155.38	10.71	168.37	25.68	120.33	14.06	3.74	3.05	1.73	-0.48	-0.86	0.38	66.98	57.76	0
2000	255	2	145.69	7.93	165.41	6.32	120.37	14.88	5.29	3.93	1.53	0.07	-0.72	0.79	65.87	57.97	0
2000	255	3	167.98	31.12	163.87	36.48	110.78	18.72	2.03	1.91	2.16	0.46	-0.55	1.01	64.97	58.1	0
2000	255	4	126.92	25.73	140.48	10.42	84.45	24.23	4.04	4.42	2.01	0.29	-0.65	0.94	64.85	58.63	0
2000	255	5	174.52	18.81	143.71	30.41	102.23	16.7	3.09	2.91	1.34	-0.61	-0.63	0.02	65.46	59.24	0
2000	255	6	166.96	13.89	135.85	45.42	101.44	23.07	3.54	2.68	1.7	-0.67	-0.63	-0.04	65.73	59.62	0
2000	255	7	150.1	16.9	144.99	22.32	142.69	25.37	3.29	3.04	1.6	-1.78	-0.92	-0.87	67.1	60.5	0
2000	255	8	188.91	14.45	216.16	17.94	230.73	29.68	4.64	3.68	2.44	-2.2	-1.1	-1.1	68.65	61.28	0
2000	255	9	144.07	15.19	163.16	16.53	176.99	27.18	5.98	6.12	4.33	-3	-1.28	-1.72	71.67	61.13	0
2000	255	10	139.37	7.49	157.27	10.03	165.83	30.79	8.95	8.52	5.77	-3.58	-1.37	-2.21	73.41	60.21	0
2000	255	11	140.78	7.18	159.29	11.27	171.19	28.33	9.93	9.36	6.3	-3.77	-1.44	-2.33	74.96	59.82	0
2000	255	12	134.85	8.84	153.08	12.18	168.18	33.14	11.05	10.18	5.51	-3.76	-1.45	-2.32	76.17	60.57	0
2000	255	13	138.11	6.74	157.17	10.82	168.86	30.09	11.76	10.4	6.08	-3.5	-1.42	-2.08	76.44	60.91	0
2000	255	14	138.63	5.6	157.56	9.31	169.2	28.64	13.05	10.86	6.32	-3.24	-1.36	-1.88	76.44	60.88	0
2000	255	15	140.42	6.14	157.71	9.2	169.25	28.09	11.08	9.24	4.7	-2.52	-1.2	-1.31	75.7	60.76	0
2000	255	16	136.42	5.22	155.05	8.85	165.55	27.34	11.71	9.2	4.27	-2.15	-1.13	-1.02	75.28	60.62	0
2000	255	17	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	1000	1000	1000	999.99	999.99
2000	255	18	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	1000	1000	1000	999.99	999.99
2000	255	19	138.79	5.16	156.99	8.82	171.38	29.96	12.51	10.1	4.43	-1.61	-1.07	-0.54	71.74	60.25	0
2000	255	20	142.1	5.92	162.27	8.2	170.15	24.1	12.94	10.7	5.62	-1.88	-1.11	-0.77	71.02	61.27	0
2000	255	21	137.47	6.11	163.27	9.17	171.07	25.11	11.86	10.56	5.32	-1.89	-1.13	-0.76	70.46	61.87	0
2000	255	22	121.96	5.28	162.93	9.75	170.73	23.56	10.54	8.77	4.43	-1.86	-1.1	-0.76	70.12	62.33	0
2000	255	23	119.53	27.9	169.61	9.66	173.9	18.93	8.92	7.84	4.25	-1.8	-1.09	-0.71	70.26	62.65	0
2000	256	0	159.63	17.46	179.88	7.36	182.36	13.86	9.14	8.19	4.42	-1.74	-1.11	-0.63	70.31	62.35	0
2000	256	1	166.69	5.85	186.84	9.6	190.66	14.56	10.61	8.59	4.83	-1.61	-1.05	-0.56	70.19	62.1	0

2000	256	2	173.11	5.73	205.06	9.22	204.27	16.29	8.83	7.13	3.53	-1.27	-0.78	-0.49	69.65	62.13	0
2000	256	3	166.71	5.69	189.14	7.69	189.17	12.01	8.96	7.3	3.51	-1.28	-0.97	-0.31	69.5	62.15	0
2000	256	4	162.56	5.8	184.49	8.85	187.63	13.68	10.22	8.4	4.52	-1.42	-0.97	-0.45	69.71	62.29	0
2000	256	5	166.3	6.32	194.95	8.73	199.52	13.07	10.45	7.99	4.31	-1.21	-0.8	-0.41	69.22	62.24	0
2000	256	6	164.22	4.64	187.76	8.79	193.19	14.2	12.63	9.86	5.58	-1.59	-0.94	-0.65	69.67	62.81	0
2000	256	7	166.55	6.17	186.5	10.02	186.88	14.89	11.14	9.28	6.15	-2.32	-1.17	-1.15	71	62.77	0
2000	256	8	162.26	8.84	175.5	9.93	179.09	14.55	8.74	8.17	5.73	-2.54	-1.21	-1.34	72.97	62.69	0
2000	256	9	154.67	8.5	170.56	10.04	178.9	17.18	10.3	9.38	6.23	-2.85	-1.27	-1.57	75.06	61.8	0
2000	256	10	149.16	8.81	172.88	12.94	178.24	20.83	11.14	9.85	6.72	-3.22	-1.41	-1.82	77.13	62.71	0
2000	256	11	163.15	10.33	188.21	13.32	184.39	18.4	12.57	11	6.93	-2.8	-1.26	-1.54	78.15	62.27	0
2000	256	12	168.37	9.96	194.4	12.53	189.1	17.98	13.05	11.15	6.98	-2.56	-1.25	-1.31	79.32	62.6	0
2000	256	13	178.19	8.35	202.3	11.95	189.46	14.94	13.87	11.6	7.44	-2.51	-1.27	-1.25	79.99	62.46	0
2000	256	14	177.8	8.94	200.43	11.26	189.74	16.9	15.55	13.34	8.56	-2.71	-1.32	-1.39	81.24	62.73	0
2000	256	15	119.9	39.33	169.3	10.82	174.95	23.36	13.45	10.83	6.39	-2.56	-1.05	-1.5	80.88	64.02	0
2000	256	16	126.85	5.11	159.13	8.54	170.47	26.59	15.56	11.77	5.76	-2	-0.92	-1.08	79.44	64.4	0
2000	256	17	134.33	4.12	161.09	8.64	170.67	24.6	15.3	11.65	5.51	-1.61	-0.86	-0.75	78.26	64.63	0
2000	256	18	135.04	4.25	163.55	8.25	169.81	23.09	10.95	9.44	4.51	-1.22	-0.77	-0.45	76.88	64.71	0
2000	256	19	132.74	3.75	157.99	7.13	164.98	24.2	11.43	9.32	3.84	-1.2	-0.68	-0.52	75.93	65.83	0
2000	256	20	144.32	5.4	175.15	9	177.87	17.94	16.07	12.07	6.25	-1.11	-0.79	-0.31	75.68	65.43	0
2000	256	21	147.49	10.85	181.82	8.86	183.84	15.28	17.01	13.67	7.33	-1.47	-1.03	-0.45	75.68	64.8	0
2000	256	22	144.67	8.44	182.74	8.5	179.99	15.37	15.93	13.48	7.59	-1.58	-1.07	-0.52	75.14	63.08	0
2000	256	23	135.74	10.66	177.08	8.2	177.89	16.32	14.64	12.08	6.23	-1.58	-1.06	-0.52	74.43	62.21	0
2000	257	0	93.76	5.94	198.31	11.39	191.66	21.22	13.11	10.92	5.71	-1.64	-1.06	-0.58	74.08	62	0
2000	257	1	166.54	9.8	211.4	8.83	186.56	16.67	14.1	11.42	5.46	-0.76	-0.71	-0.05	70.48	63.36	0.22
2000	257	2	178.77	7.49	207.05	8.35	175.3	11.72	9.74	8.56	3.43	-0.2	-0.5	0.3	68.89	62.95	0.07
2000	257	3	148.26	15.35	182.12	14.14	144.27	12.21	5.53	4.88	1.99	-0.49	-0.63	0.15	68.69	62.27	0.02
2000	257	4	208.17	22.4	223.04	33.16	189	13.7	5.65	4.06	2.07	-0.22	-0.83	0.61	69.14	63.47	0
2000	257	5	224.89	14.89	249.48	20.99	210.99	36.63	6.34	4.81	2.29	-0.86	-0.88	0.02	69.7	62.83	0
2000	257	6	260.58	19.36	288.37	22.92	254.39	62.91	8.45	7.35	2.43	-0.72	-1	0.28	69.88	60.24	0
2000	257	7	260.58	12.21	310.33	31.87	98.7	70.21	14.29	9.4	3.45	-1.53	-1.16	-0.38	70.21	60.89	0
2000	257	8	313.08	30	357.61	19.33	14.24	34.34	10.48	9.1	5.29	-2.54	-1.29	-1.25	71.21	60.94	0
2000	257	9	291.15	10.34	339.14	13.3	359.38	36.67	11.85	10.84	4.84	-2.61	-1.24	-1.37	71.81	60.13	0
2000	257	10	306.04	10.76	350.08	11.35	359.25	30.85	12.62	11.86	5.71	-2.71	-1.29	-1.42	71.59	58.16	0
2000	257	11	319.97	22.11	0.94	12.6	4.26	23.43	11.58	10.55	6.44	-3.16	-1.37	-1.79	73.37	57.59	0
2000	257	12	348.28	25.62	13.68	19.23	12.33	25.75	8.64	7.79	5.92	-3.06	-1.43	-1.63	74.28	57.05	0
2000	257	13	347.17	33.44	12.84	19.45	7.36	29.13	8.2	7.68	5.79	-3.1	-1.42	-1.68	75.59	56.95	0
2000	257	14	346.92	26.57	8.05	16.65	8.22	20.25	8.63	7.94	5.64	-2.97	-1.43	-1.54	76.01	56.35	0
2000	257	15	333.76	21.49	3.12	13.44	0.53	23.09	7.54	7.14	4.58	-2.59	-1.31	-1.28	75.98	55.45	0
2000	257	16	1.89	17.93	14.86	14	12.25	18.95	8	7.59	5.32	-2.51	-1.27	-1.24	76.14	55.67	0
2000	257	17	10.03	11.92	13.89	11.69	359.98	14.73	7.03	6.54	4.03	-1.37	-0.89	-0.48	74.33	56.68	0
2000	257	18	17.28	6.54	18.89	7.85	18	13.28	8.72	6.72	3.64	0.11	-0.04	0.14	71.43	57.55	0
2000	257	19	2.65	12.15	18.64	6.61	30.84	11.62	9.5	7.92	5.21	1.36	0.26	1.1	68.13	56.68	0
2000	257	20	329.02	16.52	12.16	8.09	28.76	16.64	6.3	5.61	3.67	1.62	0.13	1.49	66.27	55.89	0
2000	257	21	310.17	16.53	12.1	8.46	23.61	10.3	7.13	5.98	4.81	2.65	1.37	1.29	64.81	55.88	0
2000	257	22	262.71	33.13	13.87	5.48	26.22	9.9	11.17	8.88	6.1	3.67	1.27	2.4	63.33	54.35	0
2000	257	23	53.54	20.24	10.29	6.95	28.56	10.09	10.18	8.56	5.23	1.99	0.49	1.51	62.58	53.42	0
2000	258	0	331.64	7.53	10.64	7.03	26.3	9.76	10.72	8.88	5.07	1.61	0.4	1.2	62.03	52.4	0
2000	258	1	341.21	11.2	13.24	8.87	21.02	12.13	12.69	10.36	6.05	-0.13	-0.32	0.19	62.5	51.53	0
2000	258	2	342.79	15.27	14.11	8.75	21.31	14.14	12.12	9.59	5.63	-0.77	-0.53	-0.24	61.63	51.03	0

2000	258	3	340.84	19.01	12.83	9.46	25.46	15.11	12.18	9.95	5.49	-0.24	-0.58	0.35	61.87	48.91	0
2000	258	4	346.2	15.72	17.28	8.93	28.12	13.41	13.28	11.08	6.56	-0.16	-0.3	0.14	60.99	48.8	0
2000	258	5	342.15	13.38	20.76	8.8	36.43	14.41	10.31	8.75	4.99	0.4	0.15	0.26	59.35	48.81	0
2000	258	6	320.54	15.66	24.46	7.07	37.95	13.98	7.14	7.66	5.23	1.22	0.68	0.54	59.08	50.03	0
2000	258	7	335.98	23.17	31.91	8.63	39.43	15.48	4.61	7.2	4.98	0.32	0.69	-0.38	60.76	51.2	0
2000	258	8	9.16	17.09	37.94	14.86	41.82	18.69	5.36	5.51	4.26	-1.66	-0.63	-1.03	63.69	50.38	0
2000	258	9	267.56	68.52	320.24	31.39	331.19	41.82	3.26	3.62	3.06	-2.62	-1.11	-1.51	66.61	51.65	0
2000	258	10	184.21	20.92	232.25	24.53	214.83	25.38	4.44	4.94	4.37	-2.81	-1.22	-1.59	70.05	52.77	0
2000	258	11	138.09	13.82	168.01	16.56	179.58	25.32	6.4	6.74	5.53	-3.09	-1.27	-1.82	73.41	53.26	0
2000	258	12	126.44	7.62	146.59	12.26	157.17	39.88	8.69	8.81	4.48	-4	-1.41	-2.59	75.21	54.11	0
2000	258	13	132.61	6.97	158.7	10.55	169.63	28.28	11.13	10.42	6.42	-3.7	-1.42	-2.28	75.94	55.05	0
2000	258	14	129.94	8.41	159.52	9.8	170.21	26.95	11.8	10.5	6.75	-3.26	-1.35	-1.9	76.15	55.7	0
2000	258	15	110.99	6.03	156.45	9.97	169.32	30.79	12.29	10.53	5.13	-2.68	-1.22	-1.46	75.57	56.12	0
2000	258	16	114.17	4.92	152.33	9.36	167.8	31.8	12.48	10.29	4.38	-2.36	-1.16	-1.2	74.86	56.46	0
2000	258	17	113.49	5.83	144.08	10.27	150.8	47.46	11.71	9.11	2.85	-1.35	-0.89	-0.46	72.8	56.47	0
2000	258	18	121.51	6.33	151.19	9.49	148.46	35.22	11.82	8.85	3.03	-0.77	-0.78	0.01	71.22	56.21	0
2000	258	19	118.49	5.38	154.66	9.61	166.36	34.82	14.22	11.21	4.92	-1.65	-1.06	-0.59	70.38	58.92	0
2000	258	20	106.04	5.44	147.49	9.89	158.4	43.7	11.1	9.03	3.21	-1.79	-1.03	-0.76	69.14	59.79	0
2000	258	21	105.9	5.56	142.11	11.66	140.08	50.36	12.44	9.39	3.1	-1.26	-0.79	-0.47	67.87	60.1	0
2000	258	22	103.56	10.61	135.5	16.17	91.31	44.54	9.75	7.01	2.42	-0.82	-0.58	-0.24	67.3	60.35	0
2000	258	23	110.52	6.52	152.86	10.31	155.28	36.35	12.38	9.51	3.91	-1.39	-0.93	-0.46	68.74	61.25	0
2000	259	0	158.5	17.25	202.04	19.95	189.84	27.6	12.95	10.77	5.42	-1.42	-0.95	-0.47	67.67	60.61	0.32
2000	259	1	125.12	57.03	169.19	12.66	171.02	22.38	10.87	9.19	4.05	-1.06	-0.9	-0.16	64.36	57.98	0.2
2000	259	2	162.91	8.66	181.29	12.42	187.69	18.93	11.54	9.88	5.57	-1.21	-0.84	-0.37	64.27	58.52	0.08
2000	259	3	189.19	10.62	216.35	14.12	202.37	21.42	10.95	8.94	3.89	-1.09	-0.6	-0.49	64.48	59.08	0.06
2000	259	4	206.76	17.02	231.99	13.97	217.79	29.98	7.01	5.27	2.22	-1.2	-0.85	-0.35	64.79	59.27	0
2000	259	5	182.49	11.38	191.81	13.57	169.24	32.47	6.73	5.42	2.31	-1.08	-0.96	-0.12	65.04	59.66	0
2000	259	6	229.8	19.7	232.37	22.86	207.26	42.07	7.12	5.47	2.51	-1.25	-0.87	-0.38	65.19	59.35	0
2000	259	7	319.02	31.42	343.4	32.25	348.1	64.36	8.5	7.5	4.09	-1.55	-1.08	-0.47	63.81	54.48	0
2000	259	8	283	41.92	314.32	41.88	134.38	59.16	6.37	5.72	2.97	-1.52	-1.01	-0.51	63.58	53.44	0
2000	259	9	259.21	30.19	261.29	32.42	238.97	64.95	7.14	6.46	3.49	-2.32	-1.23	-1.09	64.84	53.48	0
2000	259	10	278.77	16.44	291.76	23.66	274	62.26	13.4	11.28	4.81	-2.8	-1.44	-1.36	66.71	53.32	0
2000	259	11	274.03	14.79	289.03	18.05	260.38	63.2	17.58	15.97	5.6	-3.04	-1.4	-1.64	68.68	50.79	0
2000	259	12	271.31	11.89	283.83	14.66	252.27	51.86	16.33	14.53	5.29	-3.26	-1.45	-1.81	69.73	48.87	0
2000	259	13	287.44	10.22	302.93	13.53	304.1	65.76	16.28	14.69	4.87	-3.6	-1.53	-2.06	70.11	49.6	0
2000	259	14	275.2	10.26	288.02	13.99	258.7	56.97	15.67	14.07	5.13	-3.4	-1.47	-1.93	70.79	47.95	0
2000	259	15	282.1	14.35	295.57	17.92	278.68	66.91	13.71	11.57	4.21	-3.3	-1.47	-1.84	70.45	48.17	0
2000	259	16	268.19	11.16	279.34	13.17	248.86	43.54	12.39	11.22	4.3	-2.61	-1.27	-1.34	70.24	46.93	0
2000	259	17	283.29	7.29	296.64	9.92	273.57	43.42	14.01	11.84	3.79	-1.71	-1.15	-0.56	68.09	47.03	0
2000	259	18	296.94	8.85	312.96	12.02	329.58	67.11	16.65	14.11	3.89	-2.08	-1.32	-0.77	65.2	46.79	0
2000	259	19	290.67	8.72	305.77	12.17	298.84	82.95	18.84	15.31	4.15	-2.06	-1.31	-0.75	63.76	46.35	0
2000	259	20	289.67	7.26	303.48	14.37	302.17	89.28	21.13	15.91	4.41	-2.09	-1.36	-0.74	62.66	45.57	0
2000	259	21	294.38	8.38	308.25	16.49	243.48	90.19	22.65	16.57	4.88	-2.14	-1.35	-0.79	61.93	46.37	0
2000	259	22	282.65	13.18	305.28	15.82	257.88	91.33	22.47	16.86	4.84	-2.22	-1.39	-0.82	60.41	46.91	0
2000	259	23	279.9	12.13	307.12	13.85	276.38	80.27	23.57	18.92	5.53	-2.32	-1.34	-0.98	59.85	46.81	0
2000	260	0	276.87	11.02	310.25	13.78	319	82.02	22.06	18.09	5.31	-2.33	-1.36	-0.97	59.39	46.41	0
2000	260	1	230.68	22.35	310.42	14.03	324.66	84.52	20.14	16.7	4.93	-2.25	-1.3	-0.95	58.66	45.37	0
2000	260	2	291.59	20.37	329.63	15.62	356.11	48.97	16.78	14.83	5.45	-2.05	-1.16	-0.89	57.59	44.26	0
2000	260	3	289.38	18.47	325.18	17.7	3.96	41.5	14.61	12.41	5.04	-1.94	-1.21	-0.73	56.59	43.31	0

2000	260	4	301.31	16.36	331.88	18.05	3.57	50.49	12.15	10.08	4.27	-1.85	-1.18	-0.68	55.96	41.92	0
2000	260	5	303.51	15.19	331.95	11.36	9.15	42.68	12.07	10.9	3.74	-1.75	-1.1	-0.66	54.79	41.29	0
2000	260	6	296.77	25.87	334.24	14.2	9.03	61.4	10.63	9.24	3.46	-1.95	-1.12	-0.83	54.67	41.21	0
2000	260	7	199.54	47.8	316.52	16.94	336.75	63.74	8.58	8.31	3.47	-2.69	-1.34	-1.35	55.35	41.39	0
2000	260	8	300.37	33.47	337.82	50.53	340.05	63.04	10.18	8.94	4.64	-2.86	-1.32	-1.54	57.82	41.11	0
2000	260	9	195.33	18.25	308.75	21.27	305.98	75.45	15.74	14.2	5.2	-3.38	-1.43	-1.95	59.87	41.38	0
2000	260	10	266.91	28.42	309.28	18.09	295.39	66.58	13.67	12.39	4.8	-3.65	-1.5	-2.15	60.96	42.12	0
2000	260	11	286.51	17.47	315.86	16.57	325.7	61.91	13.75	12.37	4.69	-3.38	-1.48	-1.9	62.17	41.77	0
2000	260	12	276.89	13.78	302.01	16.64	286.42	70.4	13.26	12.26	4.28	-3.37	-1.45	-1.92	63.27	41.78	0
2000	260	13	270.48	12.01	292.13	14.18	262.71	62.13	14.49	13.22	4.5	-3.02	-1.44	-1.58	63.46	42	0
2000	260	14	283.56	10.75	305.3	14.45	299.06	62.17	15.43	13.87	4.52	-2.76	-1.4	-1.36	63.35	41.31	0
2000	260	15	290.73	9.82	312.58	13.59	343.87	61.36	12.56	10.93	3.79	-2.7	-1.41	-1.28	63.16	39.81	0
2000	260	16	288.8	17.15	310.5	18.59	335.35	68.38	13.15	11.63	4.31	-2.89	-1.41	-1.48	63.69	40.63	0
2000	260	17	287.25	7.95	306.99	14.36	234.72	82.08	12.12	9.41	2.65	-2.06	-1.47	-0.59	62.58	39.33	0
2000	260	18	279.49	5.81	296.77	9.73	228.25	28.77	13.61	9.66	2.75	0.02	-0.82	0.84	59.48	40.72	0
2000	260	19	284.93	4.75	302.4	11.19	183.01	67.89	14.7	10.7	2.52	0.04	-0.85	0.89	58.53	39.56	0
2000	260	20	271.85	10.3	288.19	7.95	233.56	34.45	11.7	9.32	2.36	0.61	-0.41	1.01	56.7	39.75	0
2000	260	21	269.37	8.91	294.28	10.11	231.27	28.68	15.43	10.96	3.01	0.37	-0.62	0.98	56.24	38.98	0
2000	260	22	253.22	11.68	271.35	11.22	243.14	41.43	11.26	8.68	2.76	-0.7	-0.57	-0.13	55.93	38.3	0
2000	260	23	207.88	12.74	252.38	10.57	217.02	21.91	8.84	7.56	2.89	-0.37	-0.52	0.15	54.71	39.61	0
2000	261	0	165.98	16.5	252.5	5.12	221.41	27.57	13.48	10.13	3.26	0.52	0.12	0.41	53.37	38.82	0
2000	261	1	168	14.58	251.08	7.98	217.74	19.6	13.05	9.45	3.33	0.98	-0.19	1.17	53.03	39.07	0
2000	261	2	281.81	36.21	260.18	13.67	230.16	24.41	10.29	7.6	2.79	0.13	-0.69	0.82	53.27	37.89	0
2000	261	3	359.93	0	277.25	16.9	256.86	31.58	12.5	9.86	4.07	-1.17	-0.9	-0.26	53.95	36.51	0
2000	261	4	359.95	0.02	244.94	21.24	205.95	30.94	7.79	6.45	3.45	-1.11	-0.92	-0.18	52.75	37.9	0
2000	261	5	342.71	20.59	239.48	20.19	195.27	18.07	6.21	5.22	3.14	-0.4	-0.87	0.47	50.92	38.13	0
2000	261	6	250.45	14.12	250.89	19.13	192.95	22.56	8.87	6.6	3.12	-0.81	-0.96	0.15	51.16	39.66	0
2000	261	7	230.71	13.98	228.69	15.24	196.49	21.94	8.64	7.34	4.52	-2.43	-1.15	-1.28	54.11	41.39	0
2000	261	8	239.27	18.47	244.69	24.72	221.03	35.36	7.65	6.46	4.04	-2.93	-1.31	-1.62	57.59	42.16	0
2000	261	9	216.77	17.23	227.66	19.06	210.15	27.14	9.12	8.17	5.34	-3.25	-1.4	-1.85	61.34	42.99	0
2000	261	10	190.5	16.36	207.66	20.1	195.59	22.91	9.79	8.89	6.6	-3.2	-1.42	-1.78	64.2	44.28	0
2000	261	11	200.34	12.84	218.68	15.44	204.43	26.59	13.45	12.1	7.06	-3.71	-1.5	-2.21	66.93	44.49	0
2000	261	12	206.18	12.17	238.27	13.11	224.68	36.82	16.66	15.28	7.19	-3.57	-1.34	-2.23	67.64	43.86	0
2000	261	13	202.1	11.05	219.15	15.65	203.82	26.23	16.69	14.6	8.37	-3.65	-1.52	-2.13	68.88	44.89	0
2000	261	14	214.62	10.25	234.15	14.6	214.8	31.16	15.93	14.01	6.8	-3.42	-1.33	-2.09	69.82	44.74	0
2000	261	15	210.16	9.01	232.42	12.52	209.23	31.61	18.18	16	7.24	-2.97	-1.29	-1.68	69.88	44.65	0
2000	261	16	210.59	8.35	226.45	12.29	201.53	27.51	16.56	14.24	6.83	-2.15	-1.14	-1	68.87	45.12	0
2000	261	17	192.67	9.35	204.12	10.64	185.89	15.16	12.72	11.3	6.4	-1.35	-1.05	-0.3	67.31	45.34	0
2000	261	18	183.72	7.71	192.57	6.86	181.85	11.86	12.39	10.82	5.41	-0.57	-0.99	0.42	65.15	45.84	0
2000	261	19	177.25	5.68	191.02	6.02	184.46	12.36	12.43	11.15	5.29	-0.43	-0.99	0.57	64.18	45.58	0
2000	261	20	172.77	7.54	185.63	7.41	179.4	11.01	10.6	9.41	3.98	-0.08	-0.94	0.86	62.75	46.39	0
2000	261	21	175.16	9.62	179.11	8.12	175.68	20.29	10.57	8.52	2.3	1.11	-0.76	1.87	61.25	46.73	0
2000	261	22	173.33	11.33	180.66	10.28	189.04	22.16	10.37	8.62	2.96	0.46	-0.82	1.28	61.39	45.95	0
2000	261	23	168.24	12.51	193.17	32.7	214.07	34.19	8.14	5.99	2.07	0.43	-0.61	1.04	61.12	46.16	0
2000	262	0	198.41	39.12	285.19	45.41	337.15	53	4.74	3.07	1.98	-0.27	-0.73	0.45	60.81	48.99	0
2000	262	1	171.23	40.48	233.53	23.54	238.05	18.98	5.57	3.45	1.91	-0.36	-0.57	0.22	59.95	46.77	0
2000	262	2	154.52	38.26	225.54	12.06	228.45	21.27	5.78	4.12	1.92	0.31	0.15	0.16	58.66	46.28	0
2000	262	3	173.14	12.05	232.77	28.27	228.66	34.1	6.74	4.6	2.06	1.83	0.76	1.07	57.36	46.36	0
2000	262	4	183.57	16.64	313.99	47.14	17.66	30.44	4.89	2.46	1.76	3.23	1.25	1.98	55.91	48.1	0

2000	262	5	233.73	23.19	21.5	17.97	26.7	13.04	2.97	2.55	1.8	2.73	1.01	1.71	55.02	47.89	0
2000	262	6	232.92	15.88	132.77	25.78	81.5	23.27	4.28	2.64	1.68	4.45	2.15	2.3	55.39	48.66	0
2000	262	7	181.13	19.8	212.51	27.8	144.53	27.44	3.77	2.24	1.44	0.12	0.85	-0.73	58.8	50.76	0
2000	262	8	118.45	46.93	137.83	35.77	131.63	38.61	1.95	2.34	2.14	-2.18	-1.07	-1.1	63.08	51.39	0
2000	262	9	145.39	49.5	178.1	32.67	183.51	25.5	2.85	3.46	3.36	-2.54	-1.25	-1.29	66.92	51.24	0
2000	262	10	171.84	40.3	189.41	29.19	209.99	43.84	3.46	3.82	3.56	-2.58	-1.12	-1.47	69.35	51.66	0
2000	262	11	150.27	13.09	174.06	13.72	181.23	25.85	5.18	5.58	4.53	-2.85	-1.12	-1.74	71.18	52.57	0
2000	262	12	163.95	34.27	176.27	29.82	191.39	28.69	5.31	5.19	4.61	-2.7	-1.13	-1.58	72.7	53.55	0
2000	262	13	149.8	12.53	164.38	13.42	177.68	23.4	6.31	6.36	4.54	-2.97	-1.16	-1.82	74.03	54.75	0
2000	262	14	148.34	10.27	155.6	8.89	166.65	28.67	5.71	5.65	3.6	-2.88	-0.94	-1.94	74.88	55.2	0
2000	262	15	163.47	19.51	169.3	16.45	164.14	38.84	6.29	5.81	3.05	-2.34	-1.07	-1.27	75.14	54.53	0
2000	262	16	205.62	9.43	231.86	9.17	208.37	25.59	7.85	6.7	2.83	-1.56	-1.02	-0.55	74.6	54.13	0
2000	262	17	181.83	4.52	215.71	7.64	191.58	15.29	12.14	10.57	5.43	-1.54	-1.05	-0.48	72.85	55.63	0
2000	262	18	183.1	5.17	225.35	8.18	187.72	20.37	11.02	8.43	3.96	-0.9	-0.87	-0.02	70.14	55.37	0
2000	262	19	160.06	9.32	197.17	10.79	163.25	15.43	8.54	6.79	1.86	0.05	-0.71	0.76	67.79	55.07	0
2000	262	20	151.1	8.99	180.05	11.62	160.28	23.72	6.85	6.85	2.92	-0.25	-0.75	0.5	67.1	54.68	0
2000	262	21	147.98	5.59	193.01	6.76	174.63	11.23	7.67	6.34	2.32	0.19	-0.79	0.99	66.37	54.46	0
2000	262	22	142.93	7.14	263.9	25.8	304.85	29.3	6.45	3.72	1.95	0.49	0.02	0.47	65.19	56.57	0
2000	262	23	138.23	10.55	2.51	32.45	29.14	21.49	4.21	2.2	1.96	1.17	-0.09	1.26	63.5	56.41	0
2000	263	0	133.9	6.11	288.77	48.69	14.53	11.71	4.29	1.95	2.17	1.24	0.01	1.23	62.89	56.27	0
2000	263	1	140.08	6.74	312.93	40.97	24.71	19.42	3.65	1.83	1.5	1.88	0.41	1.48	61.87	55.55	0
2000	263	2	138.4	7.42	319.83	38.95	39.57	23.3	2.88	2.55	1.74	1.46	0.49	0.97	61.36	55.42	0
2000	263	3	123.86	18.29	9.78	10.74	18.52	13.71	2.6	3.59	2.98	1.15	0.54	0.61	61.24	55.26	0
2000	263	4	92.56	47.94	34.2	11.02	27.38	16.12	1.57	3.92	2.96	0.98	0.18	0.79	60.79	54.69	0
2000	263	5	170.43	56.27	8.59	12.99	24.71	12.64	1.32	2.79	2.08	0.48	-0.28	0.76	60.59	54.54	0
2000	263	6	334.9	37.12	14.56	5.83	23.49	10.3	1.8	3.67	2.41	0.32	0.38	-0.05	60.5	54.51	0
2000	263	7	354.61	9.71	23.4	5.61	25.68	9.55	3.08	5.97	5.2	0.66	0.82	-0.16	60.82	54.78	0
2000	263	8	71.03	30.31	44.19	30.99	27.34	29.56	3.04	3.42	3.03	-1.62	-0.57	-1.05	63.84	55.79	0
2000	263	9	209.35	39.21	263.95	33.51	253.89	38.38	2.36	2.8	2.46	-2.21	-0.87	-1.35	66.21	56.37	0
2000	263	10	254.16	48.63	269.66	26.3	250.07	26.82	2.34	2.7	2.17	-2.51	-1.08	-1.43	68.21	56.23	0
2000	263	11	284.98	43.52	284.27	25.3	285.48	35.11	2.56	3	2.4	-2.4	-1.14	-1.27	69.44	56	0
2000	263	12	38.79	18.4	16.23	23.02	337.28	36.59	4.82	3.94	2.5	-1.56	-0.88	-0.68	70.23	57.85	0
2000	263	13	61.59	12.65	57.9	16.24	44.6	25.63	7.09	5.43	3.35	-1.79	-1.02	-0.77	69.97	60.86	0
2000	263	14	23.54	13.18	25.79	12.87	17.66	15.3	8.85	7.58	4.69	-1.89	-1.08	-0.81	69.15	61.69	0
2000	263	15	15.7	13.02	22.46	12.18	22.23	15.51	10.94	8.84	5.74	-1.78	-1.03	-0.75	67.95	61.83	0.33
2000	263	16	20.69	7.39	26.17	9.06	19.63	14.41	19.41	15.37	9.47	-1.53	-0.89	-0.64	66.81	62.03	1.04
2000	263	17	3.38	25.44	8.1	33.51	356.12	63.6	10.89	8.41	4.71	-1.5	-0.97	-0.53	67.02	61.78	0.47
2000	263	18	17.05	7.3	24.28	8.45	19.87	14.14	16.25	13.38	8.01	-1.45	-0.86	-0.58	67.56	62.41	0.02
2000	263	19	4.45	10.06	14.92	9.97	16.18	13.87	15.43	12.73	8.03	-1.83	-1.17	-0.66	68.08	62.09	0
2000	263	20	3.27	11.22	12.14	10.22	15.8	15.69	13.14	10.89	6.27	-1.71	-1.14	-0.58	68.55	61.88	0
2000	263	21	350.93	10.72	0.88	11.47	20.49	19.03	15.58	13	6.41	-1.65	-1	-0.64	68.54	61.77	0.02
2000	263	22	347.43	8.89	356.44	13.11	10.89	19.08	15.18	12.91	5.92	-1.65	-1	-0.65	68.2	61.67	0
2000	263	23	333.44	6.96	352.11	11.42	15.36	27.65	14.89	12.41	5.68	-1.79	-1.15	-0.65	68.07	61.54	0
2000	264	0	327.18	8.04	344.95	14.05	9.58	33.76	14.13	11.84	4.61	-1.67	-1.11	-0.56	68.13	61.28	0
2000	264	1	327.7	11.72	346.03	13.62	7.08	32.35	13.88	12.62	5.27	-1.65	-1.13	-0.52	68.26	61.05	0
2000	264	2	310.06	12.49	326.88	16.4	2.64	51.38	12.37	10.41	3.97	-1.45	-1.13	-0.32	68.93	60.94	0
2000	264	3	285.8	13.53	301.12	15.63	247.66	81.36	12.25	9.58	2.92	-1.41	-1.23	-0.18	69.18	60.51	0
2000	264	4	287.05	11.74	304.48	14.26	276.48	81.91	16.99	13.55	3.8	-1.49	-1.18	-0.3	69.1	60.03	0
2000	264	5	285.83	14.84	301.02	17.52	253.32	52.97	12.13	9.29	3.2	-1.07	-1.09	0.02	68.34	58.64	0

2000	264	6	307.21	15.87	332.74	19.59	342.83	63.51	11.12	9.29	3.67	-1.46	-1.01	-0.45	68.37	57.56	0
2000	264	7	281.72	23.81	297.58	32.35	82.06	73.48	8.47	7.04	2.86	-2.07	-1.21	-0.86	68.71	57.17	0
2000	264	8	211.08	53.06	139.19	61.44	140.62	63.28	3.72	3.08	2.47	-2.28	-1.09	-1.19	70.27	56.25	0
2000	264	9	235.23	37.33	240.88	40.84	220.11	53.66	5.64	5.08	3.02	-2.82	-1.28	-1.53	73.19	56.87	0
2000	264	10	232.48	47.56	239.59	35.31	215.06	44.32	4.18	4.2	3.33	-3.18	-1.38	-1.81	75.95	56.29	0
2000	264	11	204.45	27.91	210.43	23.06	201.6	27.97	4.77	4.97	3.94	-2.98	-1.31	-1.67	77.43	57.42	0
2000	264	12	176.07	20.43	177.74	19.64	181.76	23.54	5.04	4.96	4.51	-2.66	-1.07	-1.59	78.61	57.8	0
2000	264	13	176.02	17.66	179.94	14.52	178.91	22.52	5.25	5.27	4.13	-3.08	-1.24	-1.85	80.79	59.48	0
2000	264	14	154.09	12.63	159.9	13.93	164.84	30.55	5.43	5.52	3.78	-2.75	-0.99	-1.77	81.92	58.89	0
2000	264	15	170.79	13.12	176.58	15.58	178.05	24.09	8.56	7.11	3.89	-2.64	-0.99	-1.65	82.72	59.03	0
2000	264	16	193.69	7.74	208.2	9.95	190.15	15.77	14	12.44	7.1	-2.04	-1.12	-0.91	82.23	58.7	0
2000	264	17	184.85	10.4	203.86	7.16	186.27	11.53	11.31	10.1	5.16	-0.79	-0.97	0.18	79.87	58.44	0
2000	264	18	188.76	5.36	211.53	5.03	198.28	11.08	10.21	8.14	2.61	0.93	-0.52	1.44	75.85	59.28	0
2000	264	19	198.43	4.35	207	4.68	176.11	11.09	10.62	9.08	3.01	1.97	-0.34	2.31	73.3	59.11	0
2000	264	20	191.84	5.92	200.18	5.86	175.03	12.81	9.05	8.27	3.07	1.9	-0.23	2.12	72.25	58.57	0
2000	264	21	181.67	6.51	203.97	7.8	179.88	28.71	10.97	8.01	1.33	3.44	0.17	3.27	70.29	58.54	0
2000	264	22	166.93	7.92	183.44	14.38	299.88	47	8.13	5.13	1.33	3.33	-0.11	3.44	68.84	59.53	0
2000	264	23	165.26	7.53	176.96	6.41	247.97	32.29	9.85	7.66	2.02	3.01	-0.47	3.47	68.08	58.56	0
2000	265	0	162.02	5.15	183.7	7.32	232.61	24.69	10.01	8.02	1.93	1.36	-0.32	1.68	68.32	58.19	0
2000	265	1	171.42	7.06	182.82	8.82	189.01	15.92	9.76	7.9	2.64	0.68	-0.6	1.28	67.51	57.96	0
2000	265	2	168.87	4.82	183.51	5.81	186.47	12.72	12.7	9.25	3.38	0.41	-0.55	0.97	67.02	58.7	0
2000	265	3	174.89	3.7	192.22	5.61	191.85	15.04	13.11	10.13	3.23	0.63	-0.44	1.07	66.38	59.27	0
2000	265	4	175.61	3.43	186.3	5.09	182.42	12.43	12.62	10.14	4.08	-0.18	-0.69	0.51	66.86	59.96	0
2000	265	5	171.58	6.14	187.61	6.41	189.67	14.55	10.41	7.69	2.73	-0.07	-0.69	0.62	66.76	60.11	0
2000	265	6	197.16	21.17	198.59	21.36	185.06	39.49	9.38	6.99	3.08	-0.41	-0.69	0.28	68.65	60.47	0
2000	265	7	247.09	16.26	257.88	19.57	240.54	53.33	12.27	9.92	3.99	-1.31	-0.98	-0.33	73.41	56.66	0
2000	265	8	258.46	12.56	273.16	15.4	247.91	52.81	19.03	16.16	5.64	-1.39	-1.08	-0.32	71.81	48.43	0
2000	265	9	260.84	12.43	278.05	15.93	252.26	44.23	15.61	12.91	5.02	-2.03	-1.19	-0.84	69.32	47.95	0
2000	265	10	271.18	18.9	291.18	23.85	267.74	68.82	14.95	13.2	5.01	-2.78	-1.34	-1.43	71.19	50.76	0
2000	265	11	273.33	14.91	293.03	19.63	284.6	66.3	18.24	16.09	5.99	-3.11	-1.43	-1.68	72.18	49.68	0
2000	265	12	268.6	11.98	284.62	15.78	254.15	65.12	20.24	18.21	6.18	-3.22	-1.39	-1.82	73.1	46.92	0
2000	265	13	268.57	11.57	283.79	14.29	264.23	54.43	20.08	17.85	6.17	-3.14	-1.44	-1.7	73.29	46.4	0
2000	265	14	260.39	9.6	277.03	12.28	251.2	45.41	19.61	17.67	6.39	-2.94	-1.35	-1.59	73.18	45.29	0
2000	265	15	264.23	11.43	280.78	14.67	249.78	46.22	16.23	13.83	5.16	-2.58	-1.24	-1.35	73.02	45.11	0
2000	265	16	265.38	10.2	281	13.42	256.7	46.26	16.98	14.86	5.24	-2.27	-1.21	-1.07	72.43	44.14	0
2000	265	17	270.88	8.69	286.05	10.41	261.5	35.61	15.14	12.6	4.41	-1.44	-1.11	-0.33	70.28	44.03	0
2000	265	18	282.88	8.5	293.94	10.59	291.53	50.54	13.02	10.56	2.75	-0.45	-0.87	0.42	67.47	45.11	0
2000	265	19	297.18	11.35	314.94	14.11	346.47	73.06	14.18	11.81	3.77	-1.62	-1.23	-0.39	66.76	43.17	0
2000	265	20	293.91	12.94	311.01	15.31	317.03	73.88	13.28	11.14	3.29	-1.44	-1.19	-0.25	65.13	41.31	0
2000	265	21	276.91	13.11	285.16	15.87	243.23	43.41	11.63	9.88	3.61	-1.2	-1.03	-0.17	63.21	40.78	0
2000	265	22	275.05	14.14	284.73	15.17	245.6	39.28	12.02	9.55	3.49	-1.05	-0.96	-0.09	61.59	40.89	0
2000	265	23	286.41	14.54	297.09	17.55	256.99	61.69	12.36	10.56	3.47	-1.3	-1.06	-0.24	60.58	40.72	0
2000	266	0	291.55	19.22	305.17	19.08	294.82	59.03	10.16	8.67	3.04	-1.15	-1.04	-0.11	59.62	41.69	0
2000	266	1	206.73	26.39	318.58	17.56	346.69	65.57	12.07	10.16	3.6	-1.55	-1.16	-0.38	59.39	41.11	0
2000	266	2	197.24	20.47	300.35	15.94	272.45	62.46	11.39	9.94	3	-1.34	-1.12	-0.22	58.16	40.37	0
2000	266	3	245.23	17.47	288.59	14.75	238.82	51.13	14.16	11.96	4.36	-1.36	-1.01	-0.35	57.16	40.15	0
2000	266	4	242.87	19.59	289.47	10.81	243.69	51.62	16.44	13.84	4.18	-1.3	-0.98	-0.32	56.15	40.32	0
2000	266	5	262.68	11.91	290.16	27.57	190.5	58.36	15.25	9.61	3.79	-1.06	-1.04	-0.02	55.19	40.8	0
2000	266	6	224.27	21.49	282	35.14	206.55	75.25	14.15	9.02	4.21	-1.47	-1.06	-0.41	55.16	41.34	0

2000	266	7	267.52	28.51	288.02	52.3	207.95	61.94	9.98	6.4	3.8	-2.14	-1.21	-0.94	57.07	41.71	0
2000	266	8	279.74	13.95	325.39	13.86	355.63	60.51	13.33	12.18	4.43	-3.01	-1.36	-1.65	58.42	42.47	0
2000	266	9	298.06	10.79	327.13	18.19	347.47	41.38	9.96	9.17	4.36	-3.43	-1.54	-1.88	60.15	42.79	0
2000	266	10	339.99	13.61	352.34	17.91	4.89	23.01	7.95	7.32	5.1	-3.23	-1.52	-1.7	61.14	42.76	0
2000	266	11	6.87	32.36	18.2	39.46	33.96	45.76	5.61	5.54	4.08	-2.89	-1.3	-1.59	62.49	41.78	0
2000	266	12	6.07	49.12	11.56	61.36	346.56	56.11	3.89	3.73	3.18	-3.14	-1.49	-1.65	63.97	42.22	0
2000	266	13	326.24	62.43	319.22	60.05	311.56	62.39	3.67	3.7	3.21	-2.99	-1.33	-1.67	65.25	42.68	0
2000	266	14	319.01	59.36	335.57	42.68	349.5	51.74	3.72	3.43	2.81	-2.84	-1.41	-1.43	66.08	43.38	0
2000	266	15	288.35	38.86	320.9	29.49	319.39	48.04	3.98	3.95	2.91	-2.51	-1.21	-1.3	66.27	43.47	0
2000	266	16	287.97	29.54	306.89	34.74	308.54	51.88	4.8	4.48	2.61	-2.47	-1.24	-1.23	66.53	44.33	0
2000	266	17	248.64	7.78	274.41	11.81	238.06	24.13	5.38	5.02	2.25	-1.36	-0.95	-0.4	65.08	46.9	0
2000	266	18	252.97	30.49	330.24	19.72	318.37	26.34	2.55	2.73	1.77	0.83	-0.1	0.94	62.05	49.32	0
2000	266	19	71.88	19.8	20.21	5.66	19.9	14.4	2.3	5.31	3.5	2.49	2.04	0.45	59.31	50.24	0
2000	266	20	84.77	47.13	16.35	5.1	25.06	10.61	1.7	6.05	4.33	3.12	2.55	0.56	57.49	49.25	0
2000	266	21	358.07	31.23	26.39	11.38	44.79	30.98	3.24	6.13	3.53	3.46	2.44	1.02	55.8	48.63	0
2000	266	22	342.49	20.43	18.76	8.26	31.99	19.87	2.68	5.78	3.26	3.21	2.4	0.81	54.7	48.24	0
2000	266	23	203.44	50.04	19.41	15.48	68.73	30.3	2.22	3.68	2.57	2.39	0.85	1.53	53.38	47.49	0
2000	267	0	198.63	23.5	13.04	5.55	21.52	11.62	2.12	4.6	3.02	3.17	1.4	1.77	53.28	47.28	0
2000	267	1	126.05	49.02	20.32	12.45	25.56	14.56	1.13	4.93	3.36	3.68	1.77	1.91	52.82	47.07	0
2000	267	2	86.77	22.63	19.84	6.1	22.48	11	1.89	7.29	4.8	4.18	2.91	1.27	52.17	45.77	0
2000	267	3	80.2	38.62	14.73	9.72	30.18	14.41	1.76	5.58	3.29	2.74	1.54	1.2	52.01	45.93	0
2000	267	4	42.56	13.84	26.32	5.64	29.27	9.66	2.81	5.81	4.29	1.74	0.89	0.85	52.2	45.74	0
2000	267	5	32.89	9.38	29.93	5.34	35.96	12.76	3.95	6.6	4.02	1.13	0.89	0.24	53.13	46.66	0
2000	267	6	111.83	51.74	67.78	21.05	70.1	19.43	1.98	2.74	1.73	-0.34	-0.28	-0.05	53.85	46.95	0
2000	267	7	348.85	18.31	46.49	11.23	40.71	18.64	3.01	3.51	2.71	-0.95	-0.03	-0.92	55.22	48.01	0
2000	267	8	358.26	20.65	56.78	20.47	52.53	35.9	3.12	3.23	2.41	-1.3	-0.41	-0.9	56.84	49.58	0
2000	267	9	34.09	26.45	71.67	24.26	83.06	28.14	1.67	2.45	2.1	-1.63	-0.68	-0.95	58.35	51.16	0
2000	267	10	117.93	42.33	112.08	38.15	355.9	36.55	1.91	1.75	1.81	-2.07	-1.04	-1.03	59.8	51.91	0
2000	267	11	168.57	9.14	179.94	13.2	185.3	16.37	5.15	3.73	2.69	-2.08	-0.92	-1.16	61.57	53.23	0
2000	267	12	189.75	11.12	200.39	14.97	188.29	16.64	7	5.86	3.54	-2.09	-1.1	-1	62.68	54.79	0
2000	267	13	173.67	6.95	188.06	9.7	186.56	14.21	10.34	8.63	5.46	-1.95	-1.04	-0.91	62.49	56.02	0
2000	267	14	176.8	6.44	194.07	10.23	191.97	15.2	10.61	8.58	4.92	-1.69	-1	-0.69	62.54	56.62	0
2000	267	15	167.64	9.97	184.03	10.86	185.07	15.07	8.6	7.61	4.13	-1.69	-0.93	-0.75	62.51	56.82	0
2000	267	16	140.74	6.85	159.79	9.99	171.11	22.73	9.1	7.34	3.55	-1.5	-0.77	-0.73	62.23	55.96	0
2000	267	17	141.01	10.02	161.91	10.81	164.69	24	7.4	5.67	2.06	-1.17	-0.63	-0.54	62.31	56.11	0
2000	267	18	138.34	9.57	148.27	7.1	137.96	28.25	5.79	5.03	1.57	-0.85	-0.38	-0.47	62.34	55.91	0
2000	267	19	144	5.82	142.77	12.7	138.42	5.31	6	3.67	1.15	-0.61	-0.2	-0.4	62.41	56.47	0
2000	267	20	196.17	29.53	250.89	51.66	139.96	0	3.3	1.91	1.27	-0.54	-0.33	-0.21	62.93	56.83	0
2000	267	21	259.5	29.24	282.23	27.33	119.49	16.96	2.62	2.46	1.18	-0.5	-0.33	-0.18	63.67	57.65	0
2000	267	22	223.7	12.07	243.73	46.09	56.36	9.15	3.64	1.89	1.59	-0.13	-0.38	0.25	63.56	57.93	0
2000	267	23	194.21	21.09	156.87	36.67	103.44	38.9	3.71	2.16	1.58	-0.22	-0.33	0.12	63.65	58.22	0
2000	268	0	222.68	33.25	250.51	48.45	353.26	4.31	3.18	2.11	1.17	-0.72	-0.53	-0.2	64.38	59.14	0
2000	268	1	198.57	6.03	197.12	20.01	81.31	19.35	6.37	3.37	1.41	0.09	-0.26	0.35	64.34	59.27	0
2000	268	2	194.04	5.88	190.69	9.42	140.44	0	5.55	3.54	1.21	0.28	-0.46	0.74	64.47	59.47	0
2000	268	3	191.07	7.64	204.82	13.52	144.69	13.34	6.04	3.95	1.13	-0.3	-0.71	0.41	65.22	60.25	0
2000	268	4	175.85	5.86	198.94	6.96	190.35	5.02	7.43	5.39	1.76	-0.59	-0.6	0.01	65.78	60.88	0
2000	268	5	183.23	7.68	225.08	14.59	209.73	4.8	5.24	3.56	1.39	-0.9	-0.5	-0.41	66.31	61.32	0
2000	268	6	174.5	5.75	194.83	7.59	192.35	8.75	5.49	4.68	1.79	-0.95	-0.67	-0.28	66.34	61.4	0
2000	268	7	191.04	7.2	201.62	15.51	212.77	23.58	7.1	5.96	2.35	-1.21	-0.78	-0.43	66.87	61.87	0

2000	268	8	197.17	14.06	186.82	7.85	167.97	19.17	6.19	5.24	1.93	-1.52	-1.08	-0.44	67.32	62.31	0
2000	268	9	237.53	32.3	200.44	29.48	172.29	31.32	5.16	4.04	2.52	-1.39	-0.84	-0.54	68.43	62.42	0
2000	268	10	210.9	31.36	201.03	31.38	187.37	45.61	5.01	4.19	2.99	-2.19	-1.2	-0.99	69.98	61.86	0
2000	268	11	272.44	45.89	269.55	40.04	245.57	71.79	7.14	6.02	3.03	-2.66	-1.38	-1.28	73.25	60.97	0
2000	268	12	296.29	15.43	310.38	18.14	306.11	83.87	13.22	11.36	3.99	-2.86	-1.43	-1.43	74.66	61.15	0
2000	268	13	313.42	12.66	328.59	18.25	348.11	59.42	14.64	12.54	4.84	-2.31	-1.27	-1.04	72.88	59.7	0
2000	268	14	331.9	11.69	346.1	12.14	1.47	28.88	13.75	12.81	5.69	-2.16	-1.19	-0.97	70.23	58.84	0
2000	268	15	347.01	10.01	3.92	11.05	9.31	18.34	14.85	13.55	6.8	-2.23	-1.15	-1.08	67.6	57.94	0
2000	268	16	341.43	12.72	357.88	14.64	5.55	21.08	14.32	12.5	6.67	-2.08	-1.18	-0.9	66.71	54.38	0
2000	268	17	328.07	10.15	345.43	11.74	0.85	35.53	13.38	12.34	5.58	-2.01	-1.18	-0.84	65.61	51.57	0
2000	268	18	339.03	14.56	351.07	17.92	5.76	25.33	11.28	9.85	5.24	-2.04	-1.21	-0.83	64.55	49.82	0
2000	268	19	335.1	9.07	347.99	11.75	4.16	27.66	12.04	10.91	4.92	-1.95	-1.18	-0.77	63.21	48.46	0
2000	268	20	345.65	9.45	357.59	9.9	12.69	23.53	14.6	12.96	6.91	-2.07	-1.2	-0.87	61.34	46.98	0
2000	268	21	1.34	9.28	15.26	10.95	18.66	16.37	16.02	13.05	8.15	-2.12	-1.24	-0.88	58.95	44.76	0
2000	268	22	356.38	9.88	9.03	13.61	16.45	16.63	14.74	12.47	7.28	-1.94	-1.14	-0.8	57.25	42.42	0
2000	268	23	359.42	11.12	17.16	12.52	24.93	16.65	9.38	8.03	5.02	-1.69	-1.05	-0.64	56.18	41.41	0
2000	269	0	358.11	14.47	21.44	15.07	32.37	22.12	8.95	7.53	3.8	-1.24	-0.89	-0.35	54.97	41.21	0
2000	269	1	356.72	13.49	12.25	14.08	15.61	18.37	8.58	7.67	4.41	-1.78	-1.08	-0.7	54.68	41.27	0
2000	269	2	354.46	15.38	14.95	14.01	24.44	18.63	7.83	6.85	4.35	-1.57	-0.98	-0.59	53.49	42.19	0
2000	269	3	352.32	12.79	12.14	13.47	19.2	19.78	8.61	7.11	4.17	-1.62	-1.02	-0.6	52.57	41.36	0
2000	269	4	359.8	13.25	15.93	11.68	14.82	16.76	12.77	10.69	6.49	-1.91	-1.07	-0.83	52.51	40.72	0
2000	269	5	0.13	15.2	15.95	13.72	19.05	19.7	13.2	11.12	6.96	-2.11	-1.18	-0.93	52.13	38.34	0
2000	269	6	359.97	17.74	15.71	13.81	17.95	19.67	10.79	9.18	5.94	-2.05	-1.15	-0.9	51.02	37.47	0
2000	269	7	0.57	10.61	14.47	13.88	16.26	19.58	12.27	10.32	6.48	-2.47	-1.3	-1.17	51.69	37.64	0
2000	269	8	354.04	12.34	2.58	12.48	10.12	18.49	13.47	11.66	7.03	-2.84	-1.37	-1.48	53.7	38.36	0
2000	269	9	353.89	9.92	4.02	14.32	8.8	19.55	15.59	13.6	7.98	-3.16	-1.47	-1.69	55.48	38.73	0
2000	269	10	348.8	12.38	358.57	16.23	6.66	23.63	13.92	11.92	6.92	-3.3	-1.5	-1.81	57.27	38.64	0
2000	269	11	356.27	12.37	6.83	18.35	9.74	19.66	15.15	12.74	7.95	-3.2	-1.54	-1.66	57.98	36.69	0
2000	269	12	339.2	10.66	352.37	15.14	5.99	27.42	14.98	12.95	6.69	-3.04	-1.4	-1.64	58.33	36.63	0
2000	269	13	346.83	11.22	0.93	11.97	8.41	24.69	14.06	12.5	6.92	-2.67	-1.33	-1.34	58.45	35.95	0
2000	269	14	357.04	12.08	11.25	14.21	11.42	20.75	10.85	9.26	5.5	-2.28	-1.22	-1.06	58.26	36.51	0
2000	269	15	10.24	9.76	23.28	14.82	26.98	16.59	9.7	7.81	5.21	-2.02	-1.13	-0.88	57.87	36.12	0
2000	269	16	5.59	10.99	17.06	12.35	20.42	17.98	12.55	10.53	6.34	-1.94	-1.1	-0.84	57.43	35.52	0
2000	269	17	5.34	8	20.33	10.88	22.68	16.51	14.62	11.25	7.32	-2.01	-1.15	-0.86	56.32	35.27	0
2000	269	18	6.67	8.88	21.49	10.36	24.55	15.6	14.79	12.07	7.82	-1.94	-1.12	-0.82	55.25	37.47	0
2000	269	19	2.11	10.81	15.65	12.17	20.31	16.84	15.88	12.95	8.05	-2.06	-1.2	-0.86	55.12	39.2	0
2000	269	20	1.29	11.56	12.81	15.11	21.36	17.92	13.68	11.08	7.02	-2.09	-1.17	-0.93	55.49	39.96	0
2000	269	21	4.45	13.35	25.06	14.36	29.48	17.73	10.36	8.89	6.02	-1.85	-1.06	-0.79	55.19	39.6	0
2000	269	22	3.54	12.5	17.09	13	21.21	16.56	12.18	10.23	6.78	-1.98	-1.13	-0.85	54.82	40.07	0
2000	269	23	9.82	11.34	23.28	12.8	27.97	16.83	11.76	9.88	6.7	-1.9	-1.13	-0.76	54.89	39.67	0
2000	270	0	23.85	10.31	29.19	12.59	22.53	17.16	11.77	9.27	5.62	-1.72	-0.96	-0.75	54.12	39.5	0
2000	270	1	12.3	10.6	23.18	12.29	21.77	16.05	13.07	10.95	7.18	-1.73	-1.04	-0.69	53.69	39.81	0
2000	270	2	4.61	12.08	18.01	16.62	25.51	19.4	13.3	10.96	6.92	-1.91	-1.15	-0.76	53.47	39.23	0
2000	270	3	357.88	11.05	9.05	15.04	18.48	19.39	15.68	12.83	7.63	-2.23	-1.28	-0.94	52.76	39.72	0
2000	270	4	0.51	11.96	12.39	13.76	21.5	17.63	15.55	13.09	8.1	-2.2	-1.27	-0.93	52.02	40.58	0
2000	270	5	359.55	12.43	9.77	15.56	19.51	17.62	18.52	15.1	9.07	-2.3	-1.32	-0.98	51.1	42.14	0
2000	270	6	357.54	11.54	7.65	13.95	18.67	19.13	17.63	14.42	8.4	-2.28	-1.32	-0.96	50.51	42.66	0
2000	270	7	5.54	10.07	17.93	11.32	21.06	15.52	18.54	15.47	9.52	-2.02	-1.18	-0.84	50.08	43.84	0.02
2000	270	8	10.11	9.11	20.05	13.06	21.18	16.59	20.74	17.03	10.58	-2.14	-1.25	-0.88	50.63	44.18	0

2000	270	9	8.74	8.42	21.45	10.77	20.94	15.88	18.14	15.75	10.17	-2.26	-1.25	-1.02	50.85	43.39	0
2000	270	10	5.85	11.06	17.88	12.25	19.28	15.79	17.3	14.71	9.49	-2.33	-1.27	-1.07	51.28	43.84	0
2000	270	11	351.31	12.84	0.5	13.93	13.68	19.87	20.22	16.89	9.26	-3.01	-1.77	-1.24	51.17	45.1	0
2000	270	12	340.19	8.09	352.48	15.62	11.63	24.6	23.94	20.5	9.33	-3.21	-2	-1.21	50.54	44.94	0.07
2000	270	13	346.38	8.13	358.54	14	10.38	20.6	21.86	19.2	9.64	-3.08	-2.14	-0.94	50.82	45.21	0.08
2000	270	14	346.88	7.28	359.03	15.2	12.02	21.21	23.22	19.52	10.07	-3.07	-2.14	-0.93	50.83	45.05	0.07
2000	270	15	353.05	10.45	3.82	13.49	16.24	16.41	20.21	16.96	10.2	-2.13	-1.25	-0.88	50.57	44.6	0.02
2000	270	16	350.13	9.81	0.09	16.31	13.32	23.07	19.25	16.1	8.24	-2.18	-1.25	-0.93	50.81	44.16	0
2000	270	17	347.63	9.22	358.24	15.89	12.07	21.98	17.03	14.33	7.23	-2.08	-1.23	-0.85	51.72	43.91	0
2000	270	18	340.13	7.14	352.09	12.83	10.24	24.86	16.52	14.02	6.25	-1.93	-1.2	-0.73	51.82	43.28	0
2000	270	19	347.72	8.64	359.62	14.54	11.72	20.51	14.45	11.92	6.64	-1.87	-1.13	-0.74	51.96	42.99	0
2000	270	20	351.47	10.3	6.73	15.99	27.06	22.97	10.61	8.56	4.31	-1.2	-0.87	-0.34	50.91	43.31	0
2000	270	21	341.71	11.08	8.51	20.27	61.73	33.44	7.61	4.93	2.16	-0.21	-0.68	0.47	49.74	42.71	0
2000	270	22	346.04	9.17	11.1	14.6	58.75	18.38	7.22	5.47	2.21	0.16	-0.61	0.77	48.98	42.76	0
2000	270	23	334.03	14.36	7.64	10.87	28.18	9.1	5.61	5.68	3.51	0.71	-0.35	1.06	48.27	42.68	0
2000	271	0	343.07	15.11	28.14	6.6	46.03	40.8	4.05	6.34	3.97	0.63	0.04	0.58	47.7	42.08	0
2000	271	1	337.1	26.92	27.8	10.91	43.65	22.67	4.01	5.89	3.22	1.54	0.63	0.91	46.85	41.52	0
2000	271	2	333.28	52.72	30.71	10	68.11	17.69	1.61	4.67	2.52	1.66	-0.06	1.72	45.54	40.43	0
2000	271	3	10.36	53.92	22.98	7.59	56.64	15.81	1.9	5.66	2.66	1.88	0.25	1.63	45.08	40	0
2000	271	4	346.23	20.49	39.12	16.23	72.61	13.78	4.28	4.67	2.73	0.93	0.21	0.72	44.87	39.7	0
2000	271	5	178.8	49.9	33.35	15.28	60.15	13.65	2.37	3.72	2.49	0.65	-0.07	0.72	44.96	39.52	0
2000	271	6	64.01	32.06	25.64	6.89	35.07	12.14	1.61	4.14	2.53	1.02	0.61	0.41	44.69	39.78	0
2000	271	7	137.57	15.3	80.02	20.72	71.9	21.7	2.13	2.14	1.44	-0.47	0.18	-0.65	46.95	41.22	0
2000	271	8	142.41	26.96	142.4	34.52	130.65	57.46	2.49	2.73	1.73	-2.12	-1	-1.12	50.74	43.14	0
2000	271	9	163.52	29.61	171.15	20.35	180.36	31.06	3.62	3.75	3.05	-2.48	-1	-1.48	55	44.96	0
2000	271	10	158	13.55	177.16	14.86	184.33	22.89	4.18	4.64	4.35	-2.44	-1.1	-1.34	58.01	45.29	0
2000	271	11	177.14	27.47	184.69	30.71	179.39	53.58	4.05	4.07	3.02	-2.65	-1.1	-1.54	62.08	46.76	0
2000	271	12	200.02	31.87	215.12	31.05	212.48	31.93	5.67	5.15	4.12	-2.93	-1.34	-1.6	65.07	46.31	0
2000	271	13	180.67	19.42	207.55	26.87	208.73	30.05	5.55	5.04	4.21	-3.02	-1.33	-1.69	67.16	46.61	0
2000	271	14	194.06	19.91	210.01	20.42	204.71	29.23	6.98	6.56	4.87	-2.87	-1.34	-1.52	68.45	46.28	0
2000	271	15	195.21	25.77	209.77	26.88	205.42	30.62	6.6	5.52	3.58	-2.69	-1.18	-1.51	69.06	46.53	0
2000	271	16	216.19	9.71	231.52	14.12	207.69	26.76	8.28	7.29	4.01	-2.26	-1.13	-1.13	69.15	47.8	0
2000	271	17	217.75	4.42	231.55	6.62	201.65	23.89	11.59	9.48	3.84	-1	-0.81	-0.19	66.67	49.15	0
2000	271	18	233.59	3.69	258.08	9.46	249.08	39.61	10.67	5.67	1.93	1.01	0.39	0.62	62.7	51.29	0
2000	271	19	196.36	28.99	189.06	28.95	145.34	43.82	5.04	4.92	2.33	0.68	-0.54	1.22	60.83	50.16	0
2000	271	20	193.08	56.84	166.48	49.32	98.92	40.58	3.12	3.46	2.28	2.25	0.06	2.18	58.98	49.24	0
2000	271	21	236.28	20.68	215.79	33.54	48.15	68.66	5.38	3.46	1.63	3.35	0.72	2.64	58.17	50.15	0
2000	271	22	207.62	26.68	183.91	28	66.29	26.22	3.66	2.25	1.29	3.8	1.84	1.96	56.74	49.77	0
2000	271	23	224.44	13.4	250.87	21.25	28.28	9.69	4.48	2.19	1.16	4.19	1.02	3.17	54.96	48.89	0
2000	272	0	160.88	9.86	200.91	24.07	19.88	17.56	4.71	2.63	1.8	4.26	0.65	3.62	54.4	48.42	0
2000	272	1	144.33	52.88	87.06	37.5	32.6	17.05	2.95	2.98	2.58	4.86	1.49	3.37	53.57	47.66	0
2000	272	2	352.4	65.39	53.52	18.83	68.28	30.15	3.14	4.07	2.37	3.77	-0.27	4.03	54.29	46.53	0
2000	272	3	330.59	30.64	13.33	19.06	31.92	24.06	6.06	6.86	4.73	0.6	-0.17	0.77	56.83	46.64	0
2000	272	4	321.54	21.1	1.25	20.26	43.5	26.04	8.81	6.99	3.82	-0.55	-0.74	0.19	58.04	45.95	0
2000	272	5	317.33	21.58	1.7	32.66	49.06	49.69	13	8.61	3.56	-0.36	-0.55	0.19	57.38	45.7	0
2000	272	6	15.79	69.05	68.24	56.01	69.59	52.74	4.58	4.23	3.3	-0.72	-0.89	0.17	56.42	45.58	0
2000	272	7	25.02	25.05	50.4	19.58	66.17	24.12	5.37	5.55	3.77	-1.66	-0.91	-0.75	57.27	46.48	0
2000	272	8	357.77	16.71	18.95	15.57	21.71	17.3	12.68	11.06	7.28	-2.47	-1.18	-1.29	58.85	48.34	0
2000	272	9	352.48	12.14	4.4	12.16	8.2	17.68	15.89	14.95	8.64	-3.22	-1.39	-1.83	57.85	48.14	0

2000	272	10	343.62	8.76	357.39	10.9	2.69	22.55	16.67	15.9	8.31	-3.59	-1.47	-2.12	58.12	48.15	0
2000	272	11	348.75	15.4	4.08	17.19	13.2	17.23	15.95	13.95	8.76	-3.29	-1.5	-1.8	57.61	46.26	0
2000	272	12	344.72	9.19	0.95	11.03	6.43	18.1	15.41	14.02	7.97	-2.98	-1.39	-1.6	55.85	43.59	0
2000	272	13	343.68	10.41	359.29	11.53	6.41	20.92	14.11	12.92	7.58	-3.53	-1.53	-2	56.43	42.78	0
2000	272	14	344.9	14.3	357.73	15.87	3.05	21.94	12.16	10.58	6.55	-3.35	-1.54	-1.8	57.12	41.95	0
2000	272	15	342.62	15.03	2.26	14.56	8.43	21.93	11.84	10.33	6.64	-3.01	-1.45	-1.56	57.66	40.62	0
2000	272	16	10.85	12.04	26.46	9.74	20.92	16.82	11.58	10.4	7.52	-2.62	-1.3	-1.32	56.75	39.02	0
2000	272	17	6.91	8.31	21.5	10.51	21.87	14.92	13.58	11.23	7.47	-2.05	-1.16	-0.9	55.41	38.41	0
2000	272	18	2.1	11.19	17.89	10.2	21.33	16.17	14.82	12.09	7.35	-1.7	-1.07	-0.63	53.28	36.65	0
2000	272	19	357.89	17.43	18.87	10.37	20.14	15.13	13.96	11.77	7.67	-1.58	-0.97	-0.61	51.77	35.8	0
2000	272	20	353.99	15.23	15.54	9.78	21.83	15.99	12.58	10.43	6.22	-1.51	-1	-0.51	50.55	35.68	0
2000	272	21	356.66	15.55	19.31	13.83	28.05	18.81	11.78	9.68	5.51	-1.41	-0.92	-0.49	49.22	34.79	0
2000	272	22	354.25	15.88	19.34	10.57	35.16	16.08	10.94	8.35	4.68	-0.72	-0.7	-0.03	47.27	34.39	0
2000	272	23	355.56	14.29	21.59	13.37	49.16	21.56	10.43	7.64	3.77	-0.26	-0.72	0.46	45.29	34.13	0
2000	273	0	350.18	15	19.41	13.19	39.69	16.53	11.86	8.94	4.44	-0.2	-0.6	0.4	44.24	32.66	0
2000	273	1	346.9	15.57	10.36	12.35	23	18.24	14.73	12.15	6.44	-1.1	-0.87	-0.23	43.65	31.68	0
2000	273	2	359.16	13.94	26.49	15.29	39.43	17.33	11.32	9.31	5.1	-0.68	-0.59	-0.09	41.54	29.71	0
2000	273	3	338.15	12.17	5.23	11.31	10.64	17.92	14.27	12.99	7.24	-1.69	-1.02	-0.67	41.73	29.72	0
2000	273	4	333.1	20.29	8.1	12.33	18.21	16.63	13.21	11.24	6.85	-1.45	-0.96	-0.49	41.32	28.63	0
2000	273	5	331.12	14.75	5.31	12.79	18.73	12.55	11.74	9.98	5.75	-0.99	-0.91	-0.08	40.37	28.82	0
2000	273	6	326.63	22.55	6.4	13.5	19.42	14.49	11.02	9.22	5.76	-1.66	-1.06	-0.6	40.53	29.35	0
2000	273	7	332	26.55	5.42	15.87	17.47	19.59	10.53	9.02	5.66	-2.36	-1.27	-1.08	41.98	29.11	0
2000	273	8	325.34	26.91	358.66	16.63	8.78	25.95	9.68	8.72	5.3	-2.81	-1.36	-1.44	44.55	28.55	0
2000	273	9	339.26	38	7.61	24.26	11.91	30.57	6.5	5.71	4.14	-2.79	-1.29	-1.5	47.05	27.97	0
2000	273	10	289.89	29.26	333.53	27.36	337.3	55.12	5.15	4.99	3.41	-3.05	-1.36	-1.69	49.1	28.91	0
2000	273	11	287.6	26.74	343.73	17.72	348.76	37.45	6.32	6.21	4.2	-3.16	-1.52	-1.65	51.12	29.93	0
2000	273	12	292.54	28.88	339.66	29.58	6.53	57.61	4.98	4.75	3.38	-2.84	-1.36	-1.48	52.68	30.12	0
2000	273	13	243.42	28.08	325.48	18.27	345.25	44.92	5.87	5.68	3.92	-2.99	-1.45	-1.54	54.66	31.51	0
2000	273	14	310.46	20.79	345.9	14.89	352.15	35.66	4.84	4.73	3.28	-2.73	-1.2	-1.53	55.98	30.56	0
2000	273	15	316.16	32.68	337.7	26.5	359.19	55.76	3.85	3.74	2.9	-2.68	-1.29	-1.39	57.2	29.86	0
2000	273	16	89.26	40.16	122.56	34.91	104.62	29.14	2.65	2.75	1.87	-2.15	-1.11	-1.04	57.35	31.87	0
2000	273	17	125.61	10.55	146.76	8.71	134.64	7.61	2.41	2.7	1.2	-0.89	-0.98	0.09	55.82	32.59	0
2000	273	18	135.12	58.46	51.7	54.51	68.54	33	3.53	3.63	2.18	1.12	-0.34	1.46	52.19	37.2	0
2000	273	19	144.19	11.6	110.65	22.52	63.58	20.43	5.22	3.12	1.73	0.52	0.1	0.42	50.63	36.33	0
2000	273	20	277.28	34.73	30.47	10.54	26.29	12.15	1.34	3.05	2.56	1.07	0.07	1	48.75	40.1	0
2000	273	21	221.98	15.29	13.18	5.33	24.48	8.8	1.82	3.93	3.2	1.83	0.49	1.35	47.21	40.19	0
2000	273	22	212.77	15.64	12.45	4.39	29.29	9.44	2.63	4.67	3.99	2.93	1.15	1.78	45.79	39.36	0
2000	273	23	227.79	26.02	17.74	4.28	28.49	10.24	1.99	5.17	4.06	3.31	1.58	1.73	44.87	38.82	0
2000	274	0	349.33	26.41	16.12	3.98	24.33	8.66	1.39	6.01	3.63	3.22	1.71	1.52	44.31	38.58	0
2000	274	1	330.81	26.19	16.08	4.1	27.38	9.12	1.32	6.27	4.11	3.68	2.34	1.34	43.67	38.16	0
2000	274	2	327.45	61.42	14.06	4.46	24.59	12.78	1.45	5.54	3.32	3.67	2.11	1.56	42.96	37.41	0
2000	274	3	332.45	20.23	19.15	4.21	30.12	10.89	2.94	7.29	4.47	4.19	2.8	1.39	42.34	37.06	0
2000	274	4	25.35	8.17	17.99	4.01	28.81	10.35	4.82	7.4	4.98	3.78	2.74	1.04	42.38	37.11	0
2000	274	5	5.5	11.28	18.19	4.3	38.17	13.2	5.33	6.91	3.78	3.71	2.36	1.35	41.63	36.34	0
2000	274	6	6.89	12.52	18.61	5.48	36.91	13.43	4.73	6.12	3.17	3.25	2.75	0.49	41.65	36.86	0
2000	274	7	18.2	8.13	35.33	13.46	39.46	18.52	3.88	4.06	2.67	0.91	1.56	-0.64	43.9	38.25	0
2000	274	8	100.19	42.11	102.82	54.87	108.51	45.57	1.74	1.73	1.69	-1.91	-0.85	-1.07	48.7	40.26	0
2000	274	9	136.44	29.26	168.28	34.35	188.08	37.13	3.52	3.36	3.04	-2.33	-1.09	-1.24	53.6	40.79	0
2000	274	10	131.15	12.97	170.09	17.59	181.67	26.68	5.99	5.94	4.89	-2.85	-1.26	-1.6	57.76	43.09	0

2000	274	11	135.17	13.17	167.98	16.51	179.12	27.96	9.13	8.46	5.92	-3.26	-1.39	-1.87	60.5	44.93	0
2000	274	12	139.09	12.17	173.11	15.24	178.25	26.17	11.09	9.98	6.69	-3.45	-1.44	-2	62.48	44.83	0
2000	274	13	142.41	18.25	176.73	13.99	178.48	27.08	10.52	9.51	6.5	-3.47	-1.47	-2	63.76	44.57	0
2000	274	14	129.46	11.86	160.46	13.28	167.76	32.54	9.21	8.28	5.08	-3.5	-1.46	-2.04	64.91	45.34	0
2000	274	15	134.21	9.79	157.83	11.36	166.75	37.36	10.16	8.78	4.53	-3.2	-1.32	-1.88	65.1	46.03	0
2000	274	16	149.92	10.49	168.89	10.76	174.34	20.91	10.48	9.09	4.91	-2.26	-1.09	-1.17	64.63	46.01	0
2000	274	17	169	5.17	183.28	9.25	182.55	13.9	12.83	10.39	4.71	-0.67	-0.86	0.19	62.63	45.62	0
2000	274	18	175.16	5.37	199.53	8.57	191.81	16.07	12.75	9.88	4.17	-0.22	-0.72	0.5	60.26	46.39	0
2000	274	19	175.04	4.26	197.22	6.25	192.01	12.77	13.26	10.72	5.41	-0.73	-0.78	0.05	58.11	47.16	0
2000	274	20	177.02	4.56	212.3	6.47	216.37	16.22	9.44	7.28	2.84	-0.06	-0.47	0.41	56.34	46.78	0
2000	274	21	196.59	3.82	235.94	8.53	221.62	15.54	7.39	5.28	2.03	-0.09	-0.41	0.31	55.79	47.55	0
2000	274	22	212.75	7.39	284.09	30.76	179.19	37.12	5.32	2.79	1.22	1.82	-0.11	1.93	53.04	47.24	0
2000	274	23	221.87	14.46	28.88	36.92	22.68	8.09	3.32	1.78	1.84	2.48	0.22	2.26	51.69	46.19	0
2000	275	0	214.44	17.52	321.76	25.14	25.92	9.44	3.62	2.12	2.08	2.39	0.3	2.09	50.84	45.76	0
2000	275	1	211.55	15.41	12.71	18.92	22.42	9.92	1.96	3.3	2.84	3.33	1.04	2.29	49.85	44.96	0
2000	275	2	227.84	36.8	19.83	8.03	26.48	8.32	1.71	4.53	2.67	3.04	1.02	2.01	49.3	44.41	0
2000	275	3	289.69	41.55	18.67	6.51	30.83	11.76	1.84	5.5	3.18	3.98	2.04	1.94	48.45	44.01	0
2000	275	4	92.59	31.24	13.59	7.9	33.43	11.18	1.46	3.8	2.32	2.69	2.61	0.08	48.36	44.24	0
2000	275	5	41.99	48.54	20.99	11.16	31.07	12.22	2.69	4.03	2.22	1.35	1.23	0.12	47.57	43.4	0
2000	275	6	356.8	16.35	59.04	18.19	74.34	19.68	3.71	2.96	1.54	-0.58	-0.27	-0.31	47.61	43.71	0
2000	275	7	305.07	25.32	48.76	31.32	80.09	23.79	3.37	1.96	1.35	-1.3	-0.77	-0.54	49.38	46.13	0
2000	275	8	285.2	57.4	62.95	28.88	37.84	16.88	1.83	2.07	1.97	-1.07	-0.5	-0.57	50	46.75	0
2000	275	9	127.18	51.1	139.44	32.4	98.44	53.14	2.05	2.59	2.38	-1.41	-0.64	-0.77	52.09	48.45	0
2000	275	10	146.75	30.44	202.87	30.33	212.12	31.04	3.53	3.72	3.31	-1.84	-0.71	-1.13	54.87	50.13	0
2000	275	11	138.16	22	181.41	25.5	194.85	34.83	4.24	4.13	3.73	-3.38	-0.87	-2.5	60.26	51.83	0
2000	275	12	123.71	15.02	163.89	19.39	173.55	34.76	5.69	5.95	4.88	-4.1	0.51	-4.61	65.31	50.84	0
2000	275	13	128.59	6.85	151.38	11.79	165.57	34.74	7.66	7.63	4.84	-3.68	-1.44	-2.24	67.2	51.08	0
2000	275	14	127.53	9.73	148.1	13.54	153.8	38.25	6.46	6.63	3.6	-3.37	-1.34	-2.03	68.34	50.48	0
2000	275	15	126.9	7.76	152.03	11.3	163.88	38.04	8.07	7.46	3.86	-3.1	-1.33	-1.77	68.62	50.69	0
2000	275	16	124.26	5.43	152.41	7.28	164.9	33.9	9.52	7.46	2.6	-1.68	-0.91	-0.77	67.24	51	0
2000	275	17	129.27	3.24	157.09	5.73	174.75	24.79	10.42	7.54	2.32	-0.33	-0.74	0.42	64.58	52	0
2000	275	18	131.02	3.75	153.57	4.99	126.38	27.42	8.14	6.7	1.81	0.04	-0.73	0.76	62.27	51.76	0
2000	275	19	138.75	9.57	166.37	5.72	158.1	11.59	5.38	4.44	1.27	0.61	-0.77	1.38	60.38	51.01	0
2000	275	20	138.16	6.72	196.94	11.47	162.51	11.2	5.28	3.27	1.75	1.54	-0.01	1.55	58.34	50.68	0
2000	275	21	161.01	12.82	304.09	29.2	340.64	24.56	4.53	2.93	1.89	0.82	-0.01	0.83	57.68	51.79	0
2000	275	22	61.61	48.85	41.71	13.37	22.39	9.87	1.39	3.36	2.34	1.47	0.45	1.02	55.98	50.49	0
2000	275	23	159.12	38.27	20.36	5.32	25.23	7.81	1.47	4.9	3.59	1.83	0.71	1.13	55.08	49.94	0
2000	276	0	13.24	17.27	20.5	5.26	26.23	8.89	2.88	6.64	4.59	2.25	1.18	1.07	54.23	49.32	0
2000	276	1	339.73	15.92	17.86	3.49	29.69	8.32	6.84	8.09	5.86	2.78	1.08	1.7	53.52	48.81	0
2000	276	2	0.58	11.67	22.99	6.88	31.17	11.21	7.08	8.32	5.08	2.82	2.64	0.19	52.84	48.2	0
2000	276	3	342.08	18.54	22.18	6.96	26.47	11.85	7.38	7.84	5.12	0.52	0.81	-0.29	53.06	48.83	0
2000	276	4	350.6	20.75	32.59	7.9	43.38	15.81	5.93	7.17	4.11	-0.39	-0.06	-0.33	53.1	48.85	0
2000	276	5	359.67	20.44	43.14	12.9	56.33	19.18	6.43	6.11	3.65	-0.92	-0.43	-0.49	52.97	48.83	0
2000	276	6	2.16	22.13	44.32	15.07	57.06	31.43	4.05	4.4	2.72	-0.84	-0.37	-0.47	53.12	49.16	0
2000	276	7	9.4	22.05	49.23	16.66	50.46	15.96	3.81	4.54	3.45	-1.34	-0.71	-0.62	52.82	49.08	0
2000	276	8	7.89	28.89	47.33	25.19	35.46	26.33	2.67	2.96	2.47	-1.63	-0.85	-0.78	53.53	49.75	0
2000	276	9	13.24	22.04	24.83	22.45	20.33	23.57	4.17	3.73	3.25	-1.92	-0.82	-1.1	55.6	50.97	0
2000	276	10	43.68	15.16	61.38	19.64	41.28	23.87	5.37	5.39	4.59	-2.84	-0.85	-1.98	59.32	52.26	0
2000	276	11	337.98	40.43	0.56	44.01	1.84	60.33	3.42	3.64	2.92	-4.67	-2.88	-1.79	62.9	53.04	0

2000	276	12	18.1	39.88	38.36	43.06	45.44	48.52	4.2	4.15	3.19	-3.69	-2.33	-1.36	64.69	52.03	0
2000	276	13	13.32	38.62	23.45	30.2	17.78	36.09	3.86	3.81	3.12	-2.57	-1.27	-1.3	65.66	52.22	0
2000	276	14	255.17	61.02	272.26	53.82	219.15	61.44	3.49	3.36	2.96	-2.64	-1.27	-1.37	66.59	52.91	0
2000	276	15	181.73	49.56	232.82	32.76	219.38	42.41	2.65	2.99	2.68	-2.58	-1.09	-1.49	67.39	52.67	0
2000	276	16	155.19	48.99	198.18	40.54	224.26	53.97	2.48	2.59	2.38	-1.99	-1.01	-0.98	67.45	51.32	0
2000	276	17	158.79	10.02	191.57	11.45	181.94	4.44	2.76	3.06	1.52	0.09	-0.83	0.92	64.74	51.35	0
2000	276	18	175.61	31.34	25.21	34.69	28.78	28.3	2.17	2.81	2.45	1.88	0.71	1.17	61.92	52.89	0
2000	276	19	212.66	21.23	21.55	9.03	27.82	12.93	2.69	4.48	3.11	4.07	2.59	1.48	59.52	52.99	0
2000	276	20	230.05	40.8	14.94	6.26	21.1	13.17	1.16	5.96	3.58	3.42	2.48	0.94	57.62	51.94	0
2000	276	21	148.51	52.79	13.26	6.58	17.87	13.4	1.47	5.45	2.86	3.1	2.14	0.96	56.32	50.74	0
2000	276	22	212.24	26.78	12.72	7.73	26.2	14.7	1.9	5.39	3.16	3.46	2.07	1.39	55.15	49.71	0
2000	276	23	236.36	33.46	13.88	6.07	22.21	13.8	2.9	5.57	3.06	4.23	2.97	1.26	54.47	49.26	0
2000	277	0	211.6	8.26	9.54	27.11	35.29	16	6.46	3.21	2.49	5.74	3.8	1.94	54.4	49.23	0
2000	277	1	181.77	14.3	51.64	24.39	45.29	15.55	2.77	2.21	2.1	4.18	2.21	1.96	54.01	48.72	0
2000	277	2	167.25	18.17	123.32	44.53	32.84	10.72	1.71	1.87	1.94	1.12	-0.12	1.24	54.11	48.75	0
2000	277	3	111.56	28.53	78.08	13.6	24.58	13.66	2.16	1.93	2.06	1.65	0.23	1.42	53.91	48.64	0
2000	277	4	134.83	11.19	236.13	39.81	42.71	18.82	3.46	1.69	1.38	0.98	-0.35	1.33	54.34	48.93	0
2000	277	5	149.82	23.71	317.62	41.82	79.47	28.77	3.14	2.15	1.69	1.19	0.05	1.14	54.65	49.48	0
2000	277	6	159.31	29.67	344.37	57.25	28.59	46.44	3.45	3.08	2.53	1.16	0.36	0.8	55.08	49.99	0
2000	277	7	155.53	22.68	181.71	46.35	157.34	62.68	4.83	3.21	2	1.99	1.48	0.51	56.1	50.97	0
2000	277	8	220.11	33.01	144.88	47.01	127.45	65.8	3.99	3.14	2.22	2.43	3.09	-0.66	59.56	53.62	0
2000	277	9	160.94	42.68	168.05	24.21	180.33	38.12	3.59	3.72	3.14	-0.11	0.83	-0.94	61.91	54.7	0
2000	277	10	155.34	14.68	187.54	29.23	201.26	37	4.26	2.75	1.94	-0.86	0.16	-1.03	64.45	54.92	0
2000	277	11	186.41	23.91	155.02	39.3	155.75	36.62	5.06	2.52	2.14	-0.62	0.33	-0.95	67.79	56.31	0
2000	277	12	218.24	23.06	298.4	25.75	288	68.32	14.06	11.95	4.53	-2.25	-1.17	-1.07	75.02	58.15	0
2000	277	13	273.18	12.19	307.97	15.25	307.72	61.36	16.04	14.59	5.04	-2.9	-1.38	-1.52	77.11	58.45	0
2000	277	14	258.34	14.48	300	20.75	304.06	67.32	11.3	9.66	3.77	-2.73	-1.28	-1.45	78.09	58.99	0
2000	277	15	229.71	17.85	282.95	18.24	247.27	41.74	8.99	7.55	3.4	-2.32	-1.18	-1.14	78.2	59.16	0
2000	277	16	195.78	9.92	286.85	13.87	248.57	30.69	10.76	8.44	2.99	-1.41	-1.02	-0.39	77.85	58.85	0
2000	277	17	197.38	7.5	314.81	12.11	318.14	59.78	14.27	11.77	3	-0.38	-1.02	0.64	76.36	56.14	0
2000	277	18	289.87	18.62	335.49	18.91	359.25	39.98	14.88	12.79	5.43	-1.1	-1.05	-0.04	75.42	49.81	0
2000	277	19	320.82	25.41	349.78	22.32	359.01	39.58	9.61	8.99	4.59	-1.05	-0.99	-0.06	73.4	47.71	0
2000	277	20	315.29	13.48	345.83	13.92	1.99	30.89	15.47	13.59	6.06	-0.94	-0.95	0.01	71.27	45.71	0
2000	277	21	313.07	12.9	341.62	9.34	6.36	44.78	14.36	12.78	4.37	-0.4	-0.78	0.38	69.69	42.72	0
2000	277	22	295.97	25.36	307.41	54.86	166.75	24.46	5.42	3.33	1.89	2.85	-0.03	2.88	64.09	43.24	0
2000	277	23	332.16	42.7	106.83	49.03	57.62	24.64	4.6	2.54	2.17	3.16	0.66	2.49	61.68	44.62	0
2000	278	0	336.63	18.62	42.36	28.41	5.28	35.79	6.94	3.09	1.67	4.45	1.5	2.95	58.98	43.98	0
2000	278	1	348.83	13.49	12.03	8.53	17.39	21.71	6.79	7.06	3.8	5.38	1.66	3.72	57.21	44.51	0
2000	278	2	311	37	20.78	10.28	352.03	43.01	2.67	5.51	2.74	5.44	2.7	2.74	55.37	45.36	0
2000	278	3	356.54	30.81	28.73	5.29	35.61	14.95	6.71	8.79	4.29	3.99	1.65	2.34	55.02	44.93	0
2000	278	4	18.83	6.51	21.77	5.82	24.23	20.78	6.49	7.59	3.71	3.5	1.33	2.17	53.66	45.04	0
2000	278	5	9.18	14.18	16.79	5.1	27.37	10.84	5	6.44	3.19	4.62	3.28	1.34	53	45.75	0
2000	278	6	190.2	49.07	284.25	29.71	142.74	25.69	4.16	3.96	1.85	1.88	0.53	1.35	51.85	44.94	0
2000	278	7	183.45	15.12	217.18	31.06	192.04	26.49	4.55	3.25	1.76	-0.09	0.23	-0.33	55.67	47.28	0
2000	278	8	268.52	36.29	8.16	26.05	39.01	27.71	2.37	2.68	2.5	-1.2	-0.42	-0.78	58.69	48.29	0
2000	278	9	169.74	37.42	146.26	28.5	142.19	31.87	3.23	3.06	2.75	-1.78	-0.77	-1	60.47	48.44	0
2000	278	10	170.75	17.33	196.06	27.46	181.8	15.73	4.32	3.52	2.64	-2.07	-1.01	-1.06	61.79	48.94	0
2000	278	11	134.53	17.99	157.27	28.21	164.58	51.16	5.62	5.06	3.25	-2.83	-1.21	-1.62	65.36	51.5	0
2000	278	12	53.03	43.82	74.05	33.69	66.2	53.48	5.49	5.45	3.51	-2.43	-1.2	-1.23	66.44	52.18	0

2000	278	13	119.44	39.74	149.79	38.55	142.77	42.56	4.48	4.52	3.14	-2.8	-1.25	-1.54	69.46	52.53	0
2000	278	14	131.23	6.1	158.34	10.03	171.43	26.53	11.97	9.65	5.82	-3.07	-1.27	-1.8	71.78	53.6	0
2000	278	15	131.58	5.48	161.21	8.91	168.14	26.34	12.5	10.07	4.74	-2.38	-1.06	-1.33	71.64	54.62	0
2000	278	16	132.29	4.01	160.19	7.96	169.71	26.02	10.68	8.33	3.4	-1.08	-0.61	-0.47	70.54	54.6	0
2000	278	17	85.21	20.99	73.92	14.29	39.47	27.33	5.44	4.81	2.27	-0.31	-0.53	0.22	68.93	55.52	0
2000	278	18	330.93	17.38	4.66	12.5	9.86	16.05	12.53	11.54	6.71	-1.69	-0.99	-0.71	67.06	54.02	0
2000	278	19	340.74	17.09	8.42	11.17	10.46	17.13	12.39	11.45	7.11	-1.57	-0.88	-0.68	65.26	52.27	0
2000	278	20	16.19	18.44	34.92	13.52	31.63	16.89	8	7.82	4.99	-1.6	-1.02	-0.58	63.5	51.35	0
2000	278	21	5.69	15.53	31	8.86	30.53	13.62	8.61	7.87	5.07	-1.5	-1.02	-0.47	62.3	51.11	0
2000	278	22	315.54	27.83	356.99	12.24	5.25	17.95	14.09	12.7	6.23	-1.87	-1.09	-0.78	62.26	50.17	0
2000	278	23	329.97	9.1	359.28	10.94	4.07	20.06	17.14	16.69	8.55	-2.11	-1.18	-0.94	60.57	49.87	0
2000	279	0	330.55	11.73	357.62	11.12	4.55	20.63	16.36	14.76	7.53	-2.05	-1.15	-0.9	59.81	47.78	0
2000	279	1	332.4	11.61	0.25	11.3	8.47	17.85	15.1	13.54	7.08	-2.01	-1.16	-0.85	59.54	46.86	0
2000	279	2	336.59	15.22	6.44	13.59	13.39	20.58	13.97	11.66	5.83	-1.52	-0.98	-0.54	58.24	47.04	0
2000	279	3	344.05	19.94	13.24	12.63	18.47	15.54	12.46	10.14	5.62	-1.36	-0.91	-0.44	57.34	47.3	0
2000	279	4	348.01	23.45	13.13	13.79	23.83	17.17	13.71	11.15	6.55	-1.73	-1.09	-0.64	57.5	46.74	0
2000	279	5	349.06	20.35	14.65	13.99	23.65	16.31	14.51	11.55	6.92	-1.71	-1.1	-0.61	57.48	46.07	0
2000	279	6	2.21	16.75	24.92	15.73	34.8	22.59	10.7	8.65	5	-1.67	-0.97	-0.7	57	45.51	0
2000	279	7	345.28	22.63	13.5	14.82	19.95	20.46	10.66	9.11	5.16	-1.89	-1.08	-0.81	57.09	45.73	0
2000	279	8	353.61	22.27	21.19	17.97	29.83	19.81	8.8	7.04	4.45	-1.94	-1.09	-0.85	57.01	45.95	0
2000	279	9	11.69	11.67	27.2	15.02	28.68	20.92	6.1	5.76	3.45	-1.59	-0.98	-0.61	56.37	46.7	0.02
2000	279	10	10.1	9.84	20.9	9.51	17.88	15.21	8.08	7.11	4.6	-1.62	-0.97	-0.65	55.41	48.19	0.03
2000	279	11	18.99	9.33	31.19	10.2	27.73	13.75	11.52	9.64	6.19	-1.78	-1.05	-0.73	56.33	48.43	0
2000	279	12	24.88	13.48	43.61	11.22	35.54	19.92	7.53	6.4	3.98	-1.98	-1.07	-0.91	56.81	48.1	0
2000	279	13	26.94	10.66	48.65	13.21	55.2	23.1	6.71	5.54	3.29	-1.7	-0.99	-0.71	56.75	48.29	0
2000	279	14	18.36	9.35	37.72	9.37	35.79	16.91	8.84	7.88	4.87	-1.71	-1	-0.71	57.32	48.26	0
2000	279	15	34.53	9.37	48.39	10.27	40.96	16.84	8.91	7.92	4.66	-1.77	-1.07	-0.7	57.39	47.65	0
2000	279	16	33.79	9.97	48	10.78	40.74	19.39	7.84	6.5	3.73	-1.72	-1.07	-0.65	56.95	48.18	0
2000	279	17	58.33	9.46	69	13.72	55.55	18.53	7.72	5.5	2.74	-1.86	-1.09	-0.77	56.08	47.79	0
2000	279	18	92.93	23.16	125.9	38.63	158.05	49.56	3.38	2.2	1.59	-1.78	-0.96	-0.81	54.86	48.43	0
2000	279	19	52.3	20.09	20	50.38	40.97	38.11	3.04	2.38	1.58	-1.34	-0.68	-0.67	54.38	49.11	0.01
2000	279	20	75.78	17.57	42.16	31.37	36.89	39.93	3.44	3.03	1.85	-1.19	-0.64	-0.55	54.72	49.56	0
2000	279	21	40.44	11.38	31.23	15.4	9.09	20.91	4.46	4.48	2.89	-0.98	-0.46	-0.52	54.95	50.09	0
2000	279	22	28.32	13.77	27.79	8.96	27.79	13.63	5.75	6.46	4.62	-0.99	-0.52	-0.47	55.25	50.48	0
2000	279	23	14.29	10.3	27.95	10.31	29.94	12.44	8.39	7.82	5.18	-1.29	-0.72	-0.56	55.65	50.72	0
2000	280	0	53.91	5.87	40.62	7.39	25.26	10.81	7.18	5.27	3.43	-1.32	-0.68	-0.64	55.69	50.69	0
2000	280	1	61.95	10.28	29.08	9.61	17	12.89	4.32	3.26	2.23	-1.33	-0.71	-0.62	56	50.91	0
2000	280	2	107.23	11.44	44.86	24.26	25.12	5.97	3.12	1.54	1.23	-1.07	-0.51	-0.55	56.13	50.97	0
2000	280	3	222.16	39.52	127.35	29.9	52.72	42.29	2.44	2.28	1.44	-0.67	-0.38	-0.29	56.3	51.03	0
2000	280	4	2.21	52.1	57.06	33.84	92.91	29.43	2.16	2.15	1.53	-0.62	-0.4	-0.23	56.49	51.15	0
2000	280	5	291.84	19.33	49.78	17.9	63.51	14.83	3.26	2.77	1.68	-0.42	-0.29	-0.13	56.77	51.48	0
2000	280	6	232.57	32.1	335.66	39.27	140.7	12.9	2.82	2.71	1.47	-0.11	-0.27	0.16	57.1	51.67	0
2000	280	7	209.05	23.79	262.45	45.34	112.13	30.41	4.98	2.52	1.48	-0.15	-0.29	0.14	57.93	53.24	0
2000	280	8	182.02	5.07	198.16	10.9	178.63	13.58	7.17	4.46	2.34	-0.71	-0.28	-0.43	59.48	55.49	0
2000	280	9	171.43	12.35	176.52	16.41	184.94	16	5.51	4.05	2.81	-1.52	-0.79	-0.74	61.25	57.32	0
2000	280	10	160.08	12.53	165.14	13.51	179.63	20.11	4.94	4.12	2.61	-1.74	-0.86	-0.88	62.45	58.24	0
2000	280	11	165.93	14.34	173.33	23.88	168.3	25.71	5.03	4.45	3.13	-2.16	-0.93	-1.23	64.35	59.37	0
2000	280	12	160.98	27.98	161.4	35.78	184.42	73.8	3.02	2.56	1.93	-2.38	-1.19	-1.19	65.81	60.17	0
2000	280	13	168.07	12.02	178.92	17.89	184.08	33.7	3.83	3.21	2.23	-2.75	-1.65	-1.1	67.27	61.06	0

2000	280	14	151.26	40.26	210.62	49.95	287.25	63.71	2.98	2.92	1.8	-2.45	-1.69	-0.75	67.65	61.31	0
2000	280	15	286.26	12.91	306.86	17.07	320.02	80.8	10.93	8.86	2.65	-1.71	-1.32	-0.39	67.44	58.65	0
2000	280	16	284.26	9.42	306.25	15.31	261.83	84.2	21.06	16.77	4.71	-1.97	-1.3	-0.67	66.56	54.73	0
2000	280	17	299.08	13.05	321.11	15.75	333.26	63.25	23.71	20.49	7.1	-1.91	-1.22	-0.69	64.27	49.91	0
2000	280	18	324.18	17.64	341.55	18.41	2.22	37.43	20.04	17.36	8.25	-1.82	-1.12	-0.7	62.81	46.72	0
2000	280	19	325.38	16	346.16	16.09	0.31	27.62	14.44	12.95	6.77	-1.69	-1.09	-0.6	61.84	46.33	0
2000	280	20	311.82	12.97	331.05	15.45	358.43	41.62	16.66	14.96	5.8	-1.75	-1.13	-0.61	59.86	45.9	0
2000	280	21	310.72	14.49	329.94	16.19	356.28	48.23	16.91	14.92	5.6	-1.76	-1.14	-0.62	57.89	44.6	0
2000	280	22	311.44	13.54	328.29	13.47	2.35	39.1	16.67	15.27	5.61	-1.67	-1.07	-0.6	56.44	42.86	0
2000	280	23	308.36	15.24	324.83	19.06	80.48	62.31	14.47	11.3	4.01	-1.42	-1.1	-0.32	55.94	42	0
2000	281	0	304.78	18.25	323.27	32.72	350.11	82.22	17.04	13.24	4.76	-1.43	-0.95	-0.48	55.29	40.83	0
2000	281	1	309	61.25	357.08	51.58	76.2	55.85	8.47	7.1	4.37	-1.16	-0.98	-0.18	54.18	39.58	0
2000	281	2	300.8	19.47	332.84	18.13	356.19	53.74	15.72	12.87	5.38	-1.51	-1.02	-0.48	53.39	39.58	0
2000	281	3	317.68	16.07	345.89	18.33	358.29	32.04	13.14	11.33	5.78	-1.66	-1.08	-0.58	52.93	38.09	0
2000	281	4	301.26	22.4	333.29	22.92	347.72	64.47	8.62	7.56	2.88	-1.35	-1.05	-0.3	52.08	37.42	0
2000	281	5	311.69	20.51	314.92	22.17	320.48	66.43	8.04	6.79	2.46	-1.11	-1.06	-0.05	51.34	37.63	0
2000	281	6	75.68	21.75	315.18	13.35	285.29	71	12.93	11.22	3.31	-1.65	-1.18	-0.47	51.05	38.5	0
2000	281	7	103.65	36.16	323.16	47.95	5.75	52.48	7.79	6.03	2.64	-2.19	-1.22	-0.97	52.04	39.09	0
2000	281	8	122.23	10.66	323.03	16.69	347.29	60.24	10.85	9.66	3.93	-2.75	-1.32	-1.44	53.33	39.37	0
2000	281	9	129.28	9.67	309.35	20.76	313.89	68.9	8.72	7.98	3.47	-3.44	-1.48	-1.96	55.5	39.62	0
2000	281	10	3.84	25.59	317.26	20.96	334.71	58.8	9.34	8.63	3.92	-3.32	-1.42	-1.9	56.63	39.12	0
2000	281	11	298.52	23.26	321.81	27.55	333.79	65.02	8.68	7.83	3.84	-2.94	-1.38	-1.56	57.18	37.76	0
2000	281	12	283.22	13.12	295.45	20.31	256.96	76.47	9.98	8.86	3.36	-2.92	-1.41	-1.51	57.86	37.67	0
2000	281	13	285.71	14.86	303.17	18.01	288.36	63.88	12.12	10.77	4.07	-3.13	-1.43	-1.7	58.64	36.67	0
2000	281	14	270.58	24.9	304.63	19.28	320.66	64.71	11.96	11.03	4.06	-3.21	-1.42	-1.8	59.13	35.74	0
2000	281	15	230.85	16.09	310.46	20.88	324.92	71.15	11.72	10.36	3.89	-2.58	-1.31	-1.28	58.88	34.31	0
2000	281	16	267.79	9.57	323.58	13.73	348.64	53.08	10.56	9.37	3.63	-1.95	-1.23	-0.72	57.56	34.03	0
2000	281	17	249.31	7.55	305.55	11.63	290.72	68.49	16.93	14.72	4.05	-1.77	-1.25	-0.51	55.87	34.02	0
2000	281	18	248.37	9.09	307.53	14.2	317.83	73.44	17.43	14.76	4.61	-1.95	-1.28	-0.67	54.03	33.05	0
2000	281	19	248.13	18.32	310.5	25.86	280.69	81.64	11.65	9.97	3.57	-1.73	-1.13	-0.59	52.47	31.81	0
2000	281	20	256.49	14.48	302.17	18.86	275.49	68.02	12.54	11.05	3.76	-1.71	-1.23	-0.47	50.81	32.03	0
2000	281	21	249.96	10.96	302.57	15.12	286.66	71.44	12.94	11.19	3.53	-1.75	-1.27	-0.48	49.05	32.89	0
2000	281	22	221.35	22.9	301.99	13.61	301.21	76.12	15.57	12.61	3.53	-1.86	-1.33	-0.53	47.81	33.83	0
2000	281	23	86.94	19.09	288.72	14.15	253.24	47.93	13.38	11.3	4.17	-1.68	-1.16	-0.52	46.62	32.64	0
2000	282	0	73.3	14.87	298.44	15.5	262.79	66.35	13.7	11.41	3.87	-1.67	-1.19	-0.48	45.45	31.73	0
2000	282	1	14.98	25.96	304.47	13.83	330.55	76.18	15.41	13.16	3.71	-1.78	-1.27	-0.52	44.76	30.4	0
2000	282	2	336.64	24.82	308.55	13.67	287.21	82.5	13.76	10.81	3.12	-1.82	-1.38	-0.44	43.74	30.4	0
2000	282	3	20.71	25.68	272.27	42.13	194.94	46.67	7.5	5.38	2.36	-0.99	-0.96	-0.03	42.02	29.68	0
2000	282	4	41	17.68	249.04	52.49	183.66	41.71	5.76	3.81	1.79	-0.81	-0.97	0.16	41.1	29.08	0
2000	282	5	78.77	16.68	222.74	31.94	188.1	31.53	5.32	4.96	2.82	-1.27	-1.07	-0.2	40.79	28.14	0
2000	282	6	56.79	22.65	214.54	13.03	183.85	12.18	5.84	5.56	3.14	-1.14	-1.07	-0.07	40.29	28.34	0
2000	282	7	17.91	32.24	229.19	27.31	209.3	36.13	6.63	5.34	3.26	-2.27	-1.24	-1.03	42.17	28.75	0
2000	282	8	259.31	16.93	281.17	24.67	253.34	54.82	10.15	8.84	4.14	-3.17	-1.43	-1.74	44.43	29.2	0
2000	282	9	290.93	16.24	314.67	20.46	328.83	66.3	13.02	11.98	4.56	-3.94	-1.56	-2.38	45.85	30.66	0
2000	282	10	281.98	15.71	318.91	16.6	335.55	58.75	15.41	14.59	5.61	-3.85	-1.43	-2.43	46.56	30.52	0
2000	282	11	269.48	14.13	290.75	15.31	276.75	58.52	17.43	15.72	5.9	-4.05	-1.64	-2.41	48.39	30.79	0
2000	282	12	277.91	13.85	307.18	12.23	317.27	64.2	18.1	17.59	5.83	-4.05	-1.47	-2.58	49.15	30.9	0
2000	282	13	270.87	13.09	287.23	17.27	262.33	55.56	15.66	13.99	5.46	-3.87	-1.58	-2.29	50.37	30.76	0
2000	282	14	267.73	17.9	299.8	19.81	292.07	67.51	14.59	13.48	5.21	-3.67	-1.56	-2.11	51.93	31.03	0

2000	282	15	275.92	10.07	296.32	14.04	288.09	60.5	16.31	14.55	5.17	-3.16	-1.45	-1.71	52.16	29.91	0
2000	282	16	289.57	10.58	309.06	14.56	294.67	71.46	14.43	12.84	3.92	-2.63	-1.37	-1.26	50.48	30.39	0
2000	282	17	294.51	7.39	316.95	10.29	347.98	57.63	13.04	11.4	3.36	-1.89	-1.25	-0.64	49.01	30.68	0
2000	282	18	306.69	11.47	333.48	12.7	5.2	33.41	10.31	8.8	3.32	-1.61	-1.12	-0.49	48.4	30.11	0
2000	282	19	291.2	13.96	323.39	6.81	4.06	45.21	12.2	11.37	3.64	-1.57	-1.01	-0.56	47.22	30.51	0
2000	282	20	157.35	62.31	357	14.69	13.37	21.38	8.09	6.63	3.27	-1.4	-0.92	-0.48	45.35	31.9	0
2000	282	21	30.37	13.31	13.38	10.79	24.67	13.24	9.29	8.07	4.73	-0.75	-0.51	-0.23	43.66	34.87	0
2000	282	22	21.51	9.08	2.52	16.54	33.3	16.97	12.39	9.51	5.37	-1.22	-0.97	-0.24	43.19	34.4	0
2000	282	23	19.72	32.22	31.7	8.63	37.57	13.87	8.96	8.89	5.65	-1.08	-0.77	-0.31	41.21	32.6	0
2000	283	0	16.37	28.64	23.7	9.96	29.03	15.37	9.52	9.17	5.82	-1.41	-0.94	-0.47	40.65	31.81	0
2000	283	1	4.35	16.89	33.7	11.87	33.98	14.48	8.82	7.62	4.02	-0.82	-0.66	-0.16	39.06	30.53	0
2000	283	2	8.75	20.22	18.27	14.1	27.73	14.56	10.57	8.84	5.11	-1.14	-0.85	-0.29	38.99	30.47	0
2000	283	3	345.38	11.1	6.53	15.59	17.85	17.54	10.44	8.76	5.04	-1.75	-1.08	-0.66	39.33	30.01	0
2000	283	4	358.91	11.39	20.06	12.69	27.08	17.31	8.08	7.3	3.87	-0.99	-0.92	-0.06	37.87	29.28	0
2000	283	5	17.43	19.57	6.98	12.57	11.94	15.8	10.12	9.12	5.77	-1.76	-1.07	-0.69	38.04	30.17	0
2000	283	6	29.56	14.8	359.66	10.91	8.65	17.46	13.51	12.5	7.79	-2.05	-1.16	-0.89	37.78	30.51	0
2000	283	7	34.59	19.41	0.6	12.43	6.9	20.59	13.88	12.52	7.02	-2.51	-1.25	-1.26	38.76	30.18	0
2000	283	8	357.2	12.25	358.95	13.11	5.4	20.23	15.87	14.88	8.44	-2.75	-1.27	-1.47	40.24	29.77	0
2000	283	9	341.92	13.27	355.77	16.11	8.18	23.2	16.09	13.61	7.53	-3.29	-1.52	-1.77	42.34	29.83	0
2000	283	10	338.21	10.32	353.99	13.62	2.28	25.91	16.58	15.11	7.74	-3.39	-1.47	-1.92	43.73	29.36	0
2000	283	11	332.42	11.64	353.97	15.76	4.43	24.76	17.27	15.29	7.95	-3.67	-1.53	-2.14	45.92	27.99	0
2000	283	12	322.95	12.55	348.14	14.97	358.16	38.94	20.08	18.21	8.31	-3.38	-1.42	-1.97	46.8	25.34	0
2000	283	13	310.98	14.77	331.9	17.74	350.85	51.09	14.32	13.06	5.87	-2.69	-1.32	-1.37	46.03	26.58	0
2000	283	14	339.47	9.26	354.9	12.97	6.16	29.32	16.5	15.44	7.43	-2.34	-1.25	-1.1	45.82	26	0
2000	283	15	340.16	9.23	357.27	12.55	6.18	26.5	16.02	14.6	6.82	-2.36	-1.22	-1.14	45.97	24.56	0
2000	283	16	336.49	7.91	352.34	11.58	0.53	26.09	14.19	12.79	6.24	-2.29	-1.25	-1.04	46.22	23.64	0
2000	283	17	331.78	13.81	343.65	14.65	358.91	34.73	12.33	11.05	4.94	-2.02	-1.18	-0.83	45.65	23.52	0
2000	283	18	345.36	14.76	358.93	17.41	8.67	21.73	12.31	10.33	5.62	-1.9	-1.13	-0.77	44.96	24.6	0
2000	283	19	322.5	9.85	335.31	10.06	355.53	44.13	12.89	11.84	4.15	-1.84	-1.14	-0.7	44.04	24.23	0
2000	283	20	13.22	12.32	329.74	9.58	358.7	55.45	13.88	12.9	4.3	-2.06	-1.21	-0.84	43.7	24.26	0
2000	283	21	338.54	19.08	313.85	11.07	3.04	66.17	15.31	13.37	3.9	-2.24	-1.45	-0.79	43.08	24.93	0
2000	283	22	294.12	6.15	311.9	13.02	331.2	75.68	15.45	12.89	4.07	-2.14	-1.37	-0.77	42.08	24.94	0
2000	283	23	292.47	7.16	314.73	18.11	354.94	85.68	15.97	12.44	3.93	-2.15	-1.48	-0.68	41.57	25.87	0
2000	284	0	282.16	39.14	286.79	45.15	164.92	54.39	11.64	7.03	3.38	-1.17	-1.07	-0.1	39.91	25.68	0
2000	284	1	130.81	62.14	183.32	45.36	133.37	43.57	3.83	3.49	2.24	0.1	-0.72	0.82	37.6	25.69	0
2000	284	2	120.65	59.84	159.29	43.34	138.18	17.25	3.23	3.06	2.53	-0.14	-0.73	0.59	37.15	25.89	0
2000	284	3	292.97	60.66	299.98	52.23	130.08	40.21	3.07	3.56	2.29	-0.85	-0.94	0.09	37.35	25.79	0
2000	284	4	2.6	77.51	218.07	73.1	156.83	53.79	3.47	4.25	2.72	-0.95	-0.91	-0.03	36.56	26.23	0
2000	284	5	105.06	73.45	183.16	53.84	127.24	59.22	4.9	4.65	3.11	-0.85	-0.81	-0.04	36.28	26.17	0
2000	284	6	279.62	28.76	308.96	46.08	197.65	59.77	15.44	11.16	4.64	-1.54	-1.17	-0.38	37.61	26.54	0
2000	284	7	276.13	18.08	307.12	41.09	286.5	77.83	10.78	8.43	3.74	-1.93	-1.14	-0.79	38.96	26.88	0
2000	284	8	278.55	12.21	305.38	18.35	274.35	76.9	15.08	12.57	4.4	-3.22	-1.52	-1.69	42.18	27.76	0
2000	284	9	279.84	14.56	304.87	20.2	323.14	64.54	11.13	10.22	4.1	-3.39	-1.45	-1.93	44.13	27.07	0
2000	284	10	234.43	12.8	274.58	17.05	248.7	39.69	13.5	12.23	5.38	-3.71	-1.52	-2.19	45.57	27.3	0
2000	284	11	236.29	9.8	285.93	12.01	266.77	52.64	17.72	16.94	5.8	-3.25	-1.41	-1.85	46.35	27.09	0
2000	284	12	218.67	9.72	276.76	13.58	257.25	44.85	16.01	14.44	5.59	-2.78	-1.35	-1.43	46.3	27.73	0
2000	284	13	222.06	8.2	282.71	12.99	259.49	48.31	18.62	16.97	6.05	-2.86	-1.41	-1.45	47.41	27.4	0
2000	284	14	221.66	13.95	286.57	17.52	265.69	50.36	14.38	12.54	4.87	-2.57	-1.31	-1.26	47.49	27.68	0
2000	284	15	223.15	8.91	290.97	14.34	271.24	55.47	17.22	15.74	5.32	-2.48	-1.34	-1.14	47.37	28.19	0

2000	284	16	220.87	10.72	285.33	16.96	257.78	52.52	13.05	11.12	4.3	-2.17	-1.22	-0.96	47.16	28.91	0
2000	284	17	211.47	7.68	270.14	11.7	252.3	34.03	11.21	9.61	3.48	-1.48	-1.04	-0.44	46.29	28.66	0
2000	284	18	214.92	7.58	274.06	12.95	229.73	16.78	7.73	6.23	2.15	-0.13	-0.8	0.67	44.8	30.75	0
2000	284	19	178.96	4.38	238.7	10.56	194.28	18.66	9	6.6	2.77	-0.38	-0.34	-0.03	44.34	31.76	0
2000	284	20	183.32	5.76	230.48	11.32	181.89	18.28	11.21	8.02	3.46	-0.51	-0.46	-0.05	44.38	31.11	0
2000	284	21	181.52	5.01	234.79	12.44	201.42	26.13	13.86	8.86	3.39	-0.8	-0.4	-0.39	45.92	31.38	0
2000	284	22	172.81	8.95	221.65	14.58	193.95	22.82	8.81	6.75	2.64	-0.71	-0.76	0.05	46	32.12	0
2000	284	23	185.61	14.74	199.66	12.24	155	14.13	6.51	6.06	2.6	0.15	-0.51	0.65	44.86	32.74	0
2000	285	0	138.41	21.96	159.83	21.59	107.8	18.04	3.64	4.15	2.05	1.04	-0.8	1.85	44	33.73	0
2000	285	1	146.11	12.49	244.15	33.37	179.39	9.28	5.73	2.45	1.1	0.92	-0.23	1.14	44.6	36.26	0
2000	285	2	153.4	4.53	213.1	14.97	203.56	25.04	11.03	6.57	1.77	1.69	0.9	0.78	45.12	38.11	0
2000	285	3	169.21	3.43	208.23	3.67	181.69	16.37	13.18	11.65	3.04	2.72	0.8	1.92	44.81	36.27	0
2000	285	4	156.35	4.49	210.82	4.44	171.64	15.73	14.88	10.18	3.58	1.54	0.55	0.99	44.96	35.13	0
2000	285	5	139.92	3.8	208.81	4.95	171.1	11.5	13.39	9.5	2.71	1.57	0.53	1.04	44.7	34.65	0
2000	285	6	129.96	6.27	203.98	20.01	170.55	30.52	7.6	4.53	1.75	1.2	0.48	0.71	44.83	35.53	0
2000	285	7	143.23	13.44	200.06	12.54	191.5	17.82	5.85	5.19	2.91	0.68	0.72	-0.05	45.99	36.28	0
2000	285	8	184.1	23.22	205.11	31.06	183.39	32.75	7.91	6.69	4.32	-0.6	0.08	-0.68	49.36	37	0
2000	285	9	234.64	14.82	298.19	18.45	278.87	71.72	15.28	13.58	4.59	-2.75	-1.35	-1.41	55.62	37.58	0
2000	285	10	236.65	9.75	298.82	18.03	275.64	62.81	20.48	18.26	6.3	-3.29	-1.46	-1.83	58.2	37.52	0
2000	285	11	244.04	19.71	309.59	22.9	305.23	81.08	15.13	13.28	5.19	-3.31	-1.44	-1.88	60.5	36.67	0
2000	285	12	246.2	14.91	307.89	20.46	310.74	67.89	18.4	15.61	5.87	-3.25	-1.38	-1.87	63.2	35.8	0
2000	285	13	231.42	12.43	306.27	19.46	288.81	75.17	16.9	15.2	5.13	-3.21	-1.42	-1.79	64.98	35.74	0
2000	285	14	231.89	14.46	289.18	14.97	269.03	55.22	15.63	14.16	4.91	-2.98	-1.41	-1.58	65.62	36.33	0
2000	285	15	252.21	12.94	291.25	17.76	264.15	47.16	10.56	9.18	3.54	-2.02	-1.21	-0.81	65.25	36.67	0
2000	285	16	259.17	13.4	275.91	19.46	231.74	28.77	10.23	7.68	3.19	-1.16	-0.91	-0.25	64.49	37.4	0
2000	285	17	249.39	13.41	263.35	18.49	216.39	26.32	11.24	8.9	3.47	0.19	-0.65	0.84	62.59	37.32	0
2000	285	18	269.8	7.33	291.71	10.37	259.94	52.22	17.02	13.68	3.99	0.52	-0.7	1.22	61.09	36.45	0
2000	285	19	278.24	11.51	322.48	12.82	355.08	54.99	22.34	19.06	5.85	-1.18	-0.99	-0.19	62.16	35.38	0
2000	285	20	275.24	10.35	322.04	13.01	357.02	53.42	22.95	20.09	6.1	-1.23	-0.99	-0.23	61.44	35.78	0
2000	285	21	287.78	7.14	324.48	10.61	3.23	63.52	22.88	19.35	5.87	-1.18	-0.89	-0.28	60.15	36.34	0
2000	285	22	293.38	28.6	326.63	21.92	351.08	48.88	14.17	12.16	5.29	-1.37	-1.05	-0.32	59.42	36.02	0
2000	285	23	272.02	23.43	344.08	17.19	1.08	33.58	13.48	11.07	4.92	-1.29	-0.99	-0.3	57.93	36.01	0
2000	286	0	223.09	23.25	355.67	11.82	11.96	16.17	10.5	8.76	4.57	-0.09	-0.34	0.26	55.58	37.44	0
2000	286	1	287.54	46.03	27.99	27.46	30.92	42.65	3.64	3.92	2.42	2.2	-0.03	2.24	52.13	37.15	0
2000	286	2	180.26	50.21	6.26	63.72	23.53	40.94	3.19	1.92	2.23	3.67	0.92	2.75	48.97	38.21	0
2000	286	3	149.86	10.17	303.63	28.04	23.29	18.32	4.66	3.1	2.56	4.78	1.47	3.32	47.2	38.91	0
2000	286	4	96.29	39.54	38.19	39.44	33.13	28.98	3.81	3.3	2.43	4.54	1.48	3.06	44.8	37.66	0
2000	286	5	14.54	30.34	17.51	9.57	18.85	10.3	1.99	5	3.36	5.33	2.7	2.64	44.16	37.64	0
2000	286	6	18.51	34.11	19.86	3.44	32.97	10.74	3.8	7.41	4.21	5.28	2.98	2.3	43.75	37.09	0
2000	286	7	15.57	4.32	24.7	4.41	26.26	10.37	4.33	6.52	4.82	2.64	1.84	0.8	45.76	38.71	0
2000	286	8	73.13	33.57	47.73	43.69	25.96	30.43	2.29	2.49	2.27	-1.28	-0.44	-0.84	50.21	39.67	0
2000	286	9	124.36	43.01	242.04	65.68	215.6	47.24	2.14	2.24	2.2	-2.05	-0.9	-1.15	55.1	42.17	0
2000	286	10	110.46	62.43	292.88	57.13	307.78	56.46	1.86	2.41	2.36	-1.88	-0.52	-1.36	58.93	43.98	0
2000	286	11	138.05	27.88	176.14	17.38	182.55	16.1	3.32	4.43	4.87	-2.63	-1.2	-1.44	62.69	43.76	0
2000	286	12	111.11	14.5	170.58	18.7	181.87	26.97	4.22	4.54	3.9	-2.87	-1.32	-1.55	64.9	42.7	0
2000	286	13	117.62	16.02	194.59	27.68	202	27.19	4.71	4.85	4.29	-2.8	-1.16	-1.64	66.66	43.45	0
2000	286	14	146.19	22.96	220.24	28.65	204.22	21.69	4.73	4.31	3.75	-2.38	-1.04	-1.34	68.6	42.78	0
2000	286	15	187.75	20.83	205.09	28.53	180.46	23.26	5.17	3.57	3.14	-1.7	-0.67	-1.03	69.26	42.43	0
2000	286	16	191.53	11.51	191.41	10.89	165.45	14.61	6.45	5.45	2.35	0.63	0.13	0.5	67.73	43.82	0

2000	286	17	201.55	7.38	229.52	9.46	224.88	21.61	7.33	5.77	2.54	2.58	0.33	2.25	64.39	45.39	0
2000	286	18	228.73	4.71	246.25	10.7	347.64	30.46	8.41	5.47	1.31	5.65	0.95	4.7	59.87	44.67	0
2000	286	19	216.17	3.64	248.08	10.38	351.84	13.91	9.89	6.78	1.85	9.17	3.7	5.47	56.25	47.36	0
2000	286	20	220.15	3.93	273.23	15.2	18.13	16.97	9.12	3.82	1.58	10.04	4.66	5.38	54.37	45.71	0
2000	286	21	242.85	3.93	339.76	40.94	20.6	10.96	9.56	2.46	1.8	12.06	6.27	5.79	52.04	44.53	0
2000	286	22	253.99	12.64	41.67	43.38	14.68	18.55	6.44	2.46	2.7	10.73	3.64	7.09	51.12	42.73	0
2000	286	23	283.53	12.52	293.87	33.15	8.49	30.35	8.94	3.48	1.82	8.53	1.55	6.98	51.95	41.34	0
2000	287	0	280.38	16.82	247.04	35.01	327.07	48.15	6.11	3.06	1.5	9.05	2.42	6.63	50.49	41.97	0
2000	287	1	263.69	19.5	233.49	46.4	8.77	22.82	6.45	3.87	1.85	9.71	4.16	5.55	48.56	41.96	0
2000	287	2	350.25	33.46	17.05	34.11	25.34	14.92	2.96	2.4	2.36	9.45	4.72	4.73	47.97	40.33	0
2000	287	3	4.93	7.91	32.21	16.02	15.44	24.31	2.5	5.06	2.56	7.31	2.76	4.54	47.21	38.75	0
2000	287	4	40.06	37.42	17.46	11.88	17.88	21.89	2.06	5.62	2.14	7.93	3.58	4.35	46.59	37.48	0
2000	287	5	343.25	39.23	6.4	19.98	27.85	35.47	4.02	5.09	2.57	8.8	5.89	2.92	45.51	36.79	0
2000	287	6	169.86	50.94	11.47	14.04	68.54	42.24	3.37	4.23	1.97	8.32	6.16	2.16	45.33	37.41	0
2000	287	7	152.28	59.61	116.87	41.36	155.45	32.56	2.64	2.12	1.42	5.27	5.1	0.16	48.2	37.82	0
2000	287	8	119.06	14.31	156.71	27.1	190.61	49.1	3.4	2.53	2.22	0.38	1.4	-1.03	52.29	40.29	0
2000	287	9	113.46	11.07	182.84	22.36	198.21	23.63	4.47	4.05	3.71	-2.16	-1	-1.16	56.89	42.78	0
2000	287	10	140.8	19.17	180.43	18	187.33	21.62	3.98	4.51	4	-2.49	-1.1	-1.39	61.74	40.7	0
2000	287	11	144.51	11.71	181.9	14.95	183.98	21.91	5.48	5.54	4.57	-2.74	-1.14	-1.59	65.72	39.68	0
2000	287	12	126.16	12.56	168.68	12.65	178.26	20.04	5.86	6.02	5.3	-2.92	-1.17	-1.75	67.59	40.5	0
2000	287	13	163.19	39.25	186.96	32.65	169.41	35.57	4.43	4.1	3.17	-2.21	-0.88	-1.33	70.23	40.68	0
2000	287	14	178.89	39.64	156.96	39.59	168.45	34.72	3.87	3.59	3.18	-2.38	-1.03	-1.35	73.11	40.4	0
2000	287	15	176.92	15.89	166.76	14.01	176.51	20.67	5.99	4.7	2.99	-1.87	-0.45	-1.42	73.01	41.55	0
2000	287	16	192.95	11.31	179.74	11.58	188.97	17.45	6.84	5.05	2.06	0.21	0.36	-0.15	71.84	44.22	0
2000	287	17	207.18	5.09	220.33	6.74	214.27	19.23	9.66	8.23	2.35	4.24	0.58	3.66	67.74	47.74	0
2000	287	18	207.05	9.67	240.14	13.04	171.01	13.99	11.5	7.48	1.85	5.18	1.7	3.48	65.24	45.95	0
2000	287	19	227.74	12.5	274.98	17.01	29.91	33.15	11.07	4.99	1.88	6.85	2.42	4.44	62.43	45.9	0
2000	287	20	248.41	11.51	198.54	56.82	107.87	38.36	9.54	3.29	1.5	8.38	3.6	4.78	60.64	45.88	0
2000	287	21	196.22	17.94	178.2	35.53	88.73	52.72	6.56	4.12	1.91	7.41	2.27	5.14	59.09	46.93	0
2000	287	22	136.18	35.95	112.78	32.36	333.12	49.1	3.45	3.06	1.81	7.06	2.41	4.65	58.71	47.58	0
2000	287	23	146.6	11.84	218.2	50.33	311.05	47.47	5.86	3.28	1.68	4.35	1.75	2.6	57.62	47.64	0
2000	288	0	141.94	13.94	281.36	35.16	21.48	20.88	3.05	2.02	1.82	3.94	-0.42	4.37	56.27	47.6	0
2000	288	1	116.31	45.1	4.97	26.44	0.86	17.49	2.24	1.9	2.05	5.95	0.96	4.98	54.93	45.19	0
2000	288	2	3.38	34.53	21.28	16.55	22.27	45	2.56	3.58	2.15	10.43	4.42	6.01	53.14	44.68	0
2000	288	3	76.84	33.18	115.87	25.96	129.43	38.25	3.77	4.21	2.07	8.5	4.16	4.34	52.82	42.97	0
2000	288	4	109.4	23.77	207.07	27.99	321.57	38.3	4.01	3.21	1.55	7.26	5.58	1.68	53.21	44.74	0
2000	288	5	135.15	13.07	193.59	23.03	274.12	54.05	4.45	3.67	1.29	6.62	4.34	2.28	52.64	46.35	0
2000	288	6	40.08	56.75	180.72	35.84	17.38	41.4	3.47	2.37	1.51	7.05	5.12	1.92	52.97	47.13	0
2000	288	7	13.22	10.85	160.47	13.18	187.17	48.34	3.24	4.06	2.03	5.59	4.62	0.97	55.1	48.2	0
2000	288	8	0.16	0.03	156.99	9.51	177.35	14.55	3.72	3.6	3.34	3.08	3.85	-0.77	59.35	48.81	0
2000	288	9	19.04	29.83	162.02	17.03	180.13	16.29	2.97	3.6	3.31	-0.62	0.31	-0.93	65.42	48.23	0
2000	288	10	164.14	30.98	185.37	22.21	186.17	23.55	3.59	3.93	3.88	-2.23	-0.95	-1.28	68.99	46	0
2000	288	11	168.65	35.24	181.94	30.85	181.76	22.29	3.69	3.92	3.86	-2.26	-0.71	-1.55	71.55	45.12	0
2000	288	12	177.46	26.22	205.1	25.66	186.01	20.47	5.8	4.72	3.76	-1.8	-0.58	-1.22	73.37	45.43	0
2000	288	13	192.49	16.45	194.81	19.14	184.78	28.27	7.2	5.67	4.32	-1.77	-0.41	-1.36	75.37	45.18	0
2000	288	14	182.72	20.08	184.44	17.75	175.27	17.29	7.47	5.13	3.79	-1.84	-0.41	-1.43	77.24	44.31	0
2000	288	15	191.65	13.22	207.76	10.11	182.93	14.38	9.45	7.06	3.54	-0.85	-0.47	-0.38	77.31	42.89	0
2000	288	16	162.24	12.33	209.43	4.97	175.12	8.86	12.26	9.37	2.92	1.5	-0.39	1.89	74.7	45.33	0
2000	288	17	156.29	4.5	220.96	5.16	207.01	17.76	12.49	9.94	2.64	2.65	-0.27	2.92	71.47	44.68	0

2000	288	18	172.46	5.76	245.89	4.26	222.58	16.14	13.84	9.88	1.91	3.99	-0.03	4.02	67.78	43.78	0
2000	288	19	182.89	10.05	257.48	26.37	133.18	39.6	12.45	4.61	1.69	4.46	2.37	2.08	65.14	42.24	0
2000	288	20	205.31	21.79	212.39	25.77	145.08	38.09	11.03	4.48	1.96	4.8	2.18	2.62	63.1	42.2	0
2000	288	21	200.88	7.61	203.33	9.15	297.81	43.16	8.56	7.1	1.39	5.5	-0.11	5.61	61.33	45.42	0
2000	288	22	190.72	6.59	194.63	5.03	329.56	31.42	11.98	8.58	1.38	7.84	1.29	6.55	58.82	47.68	0
2000	288	23	218.18	7.26	215.42	9.44	8.99	31.87	9.6	6.27	1.68	8.87	2.97	5.9	57.96	47.97	0
2000	289	0	239.53	6.63	214.9	29.23	25.6	33.94	9.12	2.79	1.62	10.67	4.61	6.07	56.94	46.88	0
2000	289	1	256.19	8.18	260.99	20.02	25.08	29.65	8.92	2.77	1.92	11.34	3.25	8.09	56.61	46.83	0
2000	289	2	220.6	28.38	172.08	43.45	224.45	53.61	4.88	3.6	1.8	11.52	4.75	6.77	56.58	46.72	0
2000	289	3	177.27	13.12	212.14	22.53	275.98	26.4	5.02	4.23	1.87	8.87	7.82	1.05	57.47	47.94	0
2000	289	4	231.38	36.05	11.38	36.57	28	19.6	3.66	2.92	3.35	9.45	4.39	5.06	56.52	47.37	0
2000	289	5	67.98	42.52	44.47	36.29	40.78	41.69	4.73	4.4	2.63	7.87	1.06	6.81	57.15	45.3	0
2000	289	6	348.49	54.09	20.85	53.3	178.15	66.65	3.27	3.2	1.99	6.26	-0.1	6.36	58.27	44.06	0
2000	289	7	333.14	45.45	66.4	45.63	295.02	70.27	4.65	3.59	1.9	5.33	-0.16	5.49	59.28	46.8	0
2000	289	8	270.34	17.68	252.43	21.35	235.1	15.94	4.03	2.83	1.58	0.38	-0.66	1.04	64.97	48.32	0
2000	289	9	178.46	43.3	190.18	29.57	197.64	33.01	2.74	3	2.72	-2.13	-1.05	-1.08	69.9	46.59	0
2000	289	10	353.05	19.86	4.36	16.69	358.24	33.75	5.19	4.7	3.28	-2.38	-1.17	-1.21	71.2	47.49	0
2000	289	11	30.26	46.74	47.39	68.87	294.16	64.98	3.38	2.85	2.42	-2.56	-1.29	-1.27	73.13	48.88	0
2000	289	12	0.76	39.62	1.71	35.66	2.36	45.62	4.54	4.43	3.27	-2.5	-1.18	-1.32	74.51	47.99	0
2000	289	13	20.33	14.94	27.47	18.02	13.63	23.11	5.15	4.84	3.77	-2.26	-1.24	-1.02	74.8	47.96	0
2000	289	14	23.92	27.24	41.2	25.08	27.12	37.93	4.39	4.54	3.34	-2.57	-1.29	-1.28	75.73	48.51	0
2000	289	15	22.57	38.85	22.8	48.35	338.02	30.22	3.36	3.09	2.3	-1.96	-1.13	-0.83	75.63	48.27	0
2000	289	16	38.6	42.01	152.62	19.5	185.94	24.12	1.84	1.9	1.74	-0.08	-0.85	0.77	73.27	49.45	0
2000	289	17	44.15	10.72	36.1	9.25	16.49	19.08	4.1	3.98	2.37	2.81	-0.2	3.01	69.8	51.12	0
2000	289	18	47.15	10.93	31.98	10.05	28.81	22.03	5.6	5.32	2.81	3.44	0.35	3.09	67.07	51.48	0
2000	289	19	32.23	15.06	10.65	11.32	23.48	17.42	4.63	5.32	2.91	3.67	0.69	2.98	65.21	51.07	0
2000	289	20	19.57	5.76	19.27	4.73	30.51	8.76	8.32	8.34	5.69	4.55	0.79	3.76	63.87	50.47	0
2000	289	21	347.19	11.63	10.13	7.2	26.53	10.19	11.33	9.8	6.06	2.26	0.18	2.09	64.01	49.91	0
2000	289	22	357.72	12.87	16.06	8.75	28.59	11.45	10.59	8.18	4.57	-0.23	-0.52	0.3	64.28	49.01	0
2000	289	23	6.31	8.9	20.83	10.99	32.28	14.1	10.91	8.72	5.21	-0.85	-0.69	-0.16	63.68	48.98	0
2000	290	0	45.51	15.44	52.91	17.59	41.76	28.04	9.21	7.76	4.28	-1.51	-0.96	-0.54	62.33	47.77	0
2000	290	1	79.75	14.29	96.94	20.45	73.93	45.5	10.88	9.09	3.92	-1.69	-1.07	-0.62	60.62	44.66	0
2000	290	2	43.29	13.88	55.44	13.95	43.69	23.35	6.85	6.17	3.43	-1.71	-1.08	-0.63	59.4	43.9	0
2000	290	3	65.54	10.3	82.2	14.72	62.15	26.43	9.26	7.41	3.43	-1.78	-1.08	-0.7	58.2	43.12	0
2000	290	4	48.32	12.14	61.88	15.74	46.85	22.99	7.99	6.48	3.65	-2.02	-1.14	-0.89	57.58	43.76	0
2000	290	5	67.69	14.84	81.45	17.58	64.35	29.26	7.03	5.54	2.86	-1.97	-1.12	-0.85	56.92	44.96	0
2000	290	6	82.33	11.6	101.6	16.43	84.3	35.02	7.74	6.21	2.63	-1.91	-1.1	-0.8	56.57	46.12	0
2000	290	7	93.62	11.1	106.72	13.51	76.63	27.88	7.81	5.97	2.24	-1.58	-0.99	-0.6	55.66	47.33	0
2000	290	8	90.87	9.92	107.71	13.09	90.63	35.99	8.24	6.38	2.15	-1.65	-0.98	-0.68	54.75	47.9	0.01
2000	290	9	100.42	11.94	115.24	16.39	86.01	45.61	7.91	5.97	2.1	-1.74	-1.01	-0.73	54.08	47.76	0
2000	290	10	105.8	16.57	119.94	21.92	109.9	50.02	6.28	4.76	2.09	-1.85	-1.04	-0.8	54.09	47.73	0
2000	290	11	97.33	12.93	116.29	18.82	95.14	37.59	6.6	4.59	2.09	-1.92	-1.05	-0.86	53.97	47.41	0
2000	290	12	73.51	13.84	83.62	20.62	74.7	31.12	5.1	4	2.28	-2.1	-1.12	-0.97	54.18	47.44	0
2000	290	13	70.1	12.68	73.03	20.12	48.93	26.6	6.21	4.11	2.27	-2.12	-1.12	-1	54.41	47.51	0
2000	290	14	48.82	11.7	47.58	16.24	21.68	21.24	4.84	4.25	3.15	-2.06	-1.1	-0.96	54.63	47.65	0
2000	290	15	18.59	13.34	22.58	13.16	10.74	14.8	5.55	5.49	3.97	-1.74	-0.91	-0.83	54.03	48.38	0
2000	290	16	0.02	0.19	28.76	9.4	23.5	12.48	8.19	7.63	5.65	-1.7	-0.9	-0.8	53.39	48.43	0
2000	290	17	0.02	0.15	34.76	9.27	25.92	13.63	11.38	10.07	6.72	-1.81	-1.08	-0.73	52.31	47.16	0
2000	290	18	0.02	0.03	38.79	11.41	31	16.54	11.68	9.54	6.05	-1.96	-1.12	-0.84	50.64	45.23	0

2000	290	19	0.15	0.05	46.24	11.42	36.28	17.8	9.69	8.42	5.04	-2.02	-1.11	-0.91	49.32	43.72	0
2000	290	20	0.1	0	43.1	10.07	29.45	13.13	9.17	8.02	5.4	-2.06	-1.13	-0.94	48.46	42.66	0
2000	290	21	0.23	0.52	35.62	10.64	31.26	13.63	8.89	8.15	5.69	-1.99	-1.11	-0.88	47.69	41.69	0
2000	290	22	0.25	0.47	34.52	11.87	27.76	14.72	8.72	7.99	5.5	-2.02	-1.11	-0.91	47.43	41.12	0
2000	290	23	0.24	0.34	40.09	12.22	30.99	15.66	7.94	6.87	4.85	-2.12	-1.17	-0.95	47.27	40.81	0
2000	291	0	0.34	1.24	37.56	12.83	32.37	18.1	8.36	7.27	4.61	-2.04	-1.13	-0.91	47.58	40.76	0
2000	291	1	0.25	0.32	38.33	12.59	29.92	15.87	8.36	7.53	4.86	-2.05	-1.13	-0.93	47.67	40.38	0
2000	291	2	0.09	0.03	40.13	12.09	35.24	17.25	7.83	7.51	4.95	-2.06	-1.13	-0.93	47.4	40.36	0
2000	291	3	0.07	0.04	39.42	16.62	36.17	22.49	6.79	5.84	3.83	-2.07	-1.13	-0.94	47.13	40.24	0
2000	291	4	0.08	0.08	28.14	16.55	27.92	19.47	5.72	5.03	3.48	-2.04	-1.14	-0.9	47.48	39.89	0
2000	291	5	0.02	0.07	31.88	16.27	30.38	19.79	6.8	6.13	3.85	-1.99	-1.12	-0.87	47.98	39.62	0
2000	291	6	0.2	0.4	38.41	11.83	30.58	13.64	6.26	5.6	3.65	-2.09	-1.14	-0.95	48.27	39.88	0
2000	291	7	2.14	3.19	27.35	18.89	21.06	20.56	7.22	6.57	4.66	-2.08	-1.12	-0.96	48.58	40.34	0
2000	291	8	11.01	23.88	29.48	14.53	25.78	21.26	7.26	6.69	4.65	-2.18	-1.16	-1.02	48.93	40.58	0
2000	291	9	29.83	35.8	37.84	21.96	27.42	22.99	6.41	5.97	4.08	-2.32	-1.19	-1.13	49.64	41.2	0
2000	291	10	31.83	41.8	18.14	25.11	24.51	35.05	5.38	5.01	3.73	-2.42	-1.28	-1.14	51.21	42.42	0
2000	291	11	68.98	43.54	341.77	46.92	12.85	55.33	3.8	3.97	2.73	-2.49	-1.2	-1.28	53.18	43.28	0
2000	291	12	63.54	8.92	238.7	23.91	221.03	42.97	5.79	5.73	4.79	-2.8	-1.37	-1.44	55.6	43.79	0
2000	291	13	41.78	3.31	194.33	14.48	189.11	23.43	6.79	6.82	5.16	-2.65	-1.25	-1.4	56.91	43.18	0
2000	291	14	44.16	5.34	185.48	9.2	181.98	18.3	8.48	8.01	5.13	-2.2	-1.14	-1.06	56.58	43.93	0
2000	291	15	56.76	2.59	172.54	9.34	179.85	15.5	7.35	6.35	2.68	-1.23	-0.9	-0.34	54.61	46.2	0.01
2000	291	16	41.67	2.24	129.86	7.89	138.85	33.04	9.7	6.9	1.58	-0.99	-0.86	-0.14	54.17	46	0
2000	291	17	37.16	2.17	108.5	7.28	77.7	28.88	10.21	7.36	1.92	-0.98	-0.81	-0.17	53.55	45.61	0
2000	291	18	39.29	2.65	124.67	9.92	172.42	39.43	9.97	6.46	1.49	-0.58	-0.66	0.08	53.09	45.41	0
2000	291	19	35.7	4.72	120.01	35.93	191.17	0.25	4.99	2.14	1.13	-1.05	-0.93	-0.12	53.27	45.68	0
2000	291	20	30.11	2.7	74.58	12.43	39.95	16.71	5.88	4.01	2.1	-1.31	-0.87	-0.45	53.85	45.91	0
2000	291	21	37.32	1.97	91.16	12.22	43.49	10.56	6.11	3.54	1.55	-1.4	-0.83	-0.57	53.83	46.2	0
2000	291	22	21.76	3.88	164.7	9.06	77.5	20.64	4.93	3.6	1.23	-1.01	-0.8	-0.21	53.83	46.53	0
2000	291	23	17.7	1.51	141.04	19.04	201.71	37.54	4.86	2.74	1.51	-1.04	-0.87	-0.17	54.18	46.23	0
2000	292	0	9.09	1.1	62.6	6.37	41.13	12.03	7.33	6.25	3.44	-1.41	-0.83	-0.58	53.78	46.92	0
2000	292	1	9.58	1.02	86.51	11.06	58.6	23.93	11.15	8.16	3.82	-1.91	-1.05	-0.86	52.78	45.95	0
2000	292	2	8.18	2.08	60.24	17.46	39.52	24.91	7.61	5.59	3.48	-2.03	-1.12	-0.91	51.89	45.16	0
2000	292	3	8.89	3.49	65.05	19.94	43.28	29.4	5.89	4.2	2.71	-2.11	-1.17	-0.94	51.44	44.76	0
2000	292	4	16.78	24.75	53.01	22.11	44.07	29.13	4.86	4.03	2.51	-2.06	-1.17	-0.89	51.44	44.85	0
2000	292	5	17.11	3.59	81.71	24.81	97.41	28.27	4.66	3.79	2.01	-1.98	-1.09	-0.88	51.22	44.99	0
2000	292	6	10.78	8.58	38.07	20.04	47.75	30.96	4.59	3.95	2.78	-2.01	-1.07	-0.94	51.24	45.45	0
2000	292	7	31.88	36.83	17.26	11.76	9.94	15.28	6.03	5.66	4.05	-1.75	-0.95	-0.8	51.25	45.96	0
2000	292	8	15.05	15.8	44.07	20.71	27.68	21.86	7.7	5.48	3.46	-1.89	-0.87	-1.02	51.6	46.13	0.01
2000	292	9	22.76	22.04	25.14	41.09	303.04	54.5	4.57	3.08	1.89	-1.95	-1.21	-0.75	52.59	46.9	0
2000	292	10	4.56	25.74	43.12	19.67	31.91	25.65	5.86	4.61	2.76	-2.05	-1.2	-0.85	53.18	47.08	0
2000	292	11	13.68	40.87	34.3	20.73	20.99	20.28	6.81	5.89	3.95	-1.96	-1.15	-0.81	53.4	46.68	0.06
2000	292	12	23.8	9.27	36.08	11.2	17.72	14.82	6.57	5.39	3.53	-1.83	-1.1	-0.74	53.54	47.3	0.06
2000	292	13	336.18	34.16	9.71	15.12	9.11	21.9	6.2	5.54	3.3	-1.85	-1.12	-0.74	53.97	47.66	0.07
2000	292	14	251.03	20.51	329.97	20.31	24.85	44.94	8.55	6.88	2.79	-1.55	-1.06	-0.49	54.67	47.84	0.01
2000	292	15	339.14	43.18	23.87	11.09	33.07	18.1	8.84	7.93	5.13	-1.81	-1.04	-0.76	54.62	49.25	0
2000	292	16	284.41	41.92	9.73	11.34	13.76	17.93	8.88	8.49	5.35	-1.55	-1.01	-0.54	55.15	49.6	0
2000	292	17	268.44	34.19	7.07	14.08	19.98	22.62	9.59	8.48	4.08	-1.67	-1.08	-0.59	55.6	49.63	0
2000	292	18	244.44	48.84	6.96	11.82	12.81	17.6	12.57	11.06	6.05	-1.89	-1.18	-0.71	55.61	49.83	0
2000	292	19	216.99	18.22	356.2	11.72	10.4	19.18	13.28	11.35	5.87	-1.89	-1.18	-0.71	55.63	49.7	0

2000	292	20	215.19	27.34	359.65	12.34	11.65	19.04	14.78	12.66	6.4	-1.74	-1.09	-0.65	55.98	49.55	0
2000	292	21	219.66	41.03	1.51	13.61	12.01	19.56	10.69	9.18	5.11	-1.58	-1.06	-0.52	55.78	48.73	0
2000	292	22	199.55	14.45	339.31	11.14	3.48	35.71	13.8	12.02	4.62	-1.58	-1.1	-0.48	55.45	47.78	0
2000	292	23	195.27	3.44	331.96	8.03	2.61	44.48	17.1	14.94	4.49	-1.53	-1.01	-0.53	54.77	46.92	0
2000	293	0	192.54	3.91	330.39	7.94	5.32	40.42	18.95	16.87	5.32	-1.39	-0.94	-0.45	53.52	43.38	0
2000	293	1	200.23	4.41	335.5	8.69	2.65	36.49	14.72	13.22	4.53	-1.31	-0.92	-0.39	52.47	41.72	0
2000	293	2	203.17	10.43	333.15	17.69	12.24	63.86	11.15	8.91	3.06	-0.65	-0.8	0.16	52.02	40.22	0
2000	293	3	197.75	8.42	338.21	15.19	6.39	57.72	11.36	9.5	3.47	-0.45	-0.79	0.34	51.49	39.11	0
2000	293	4	193.44	11.06	321.57	13.34	350.26	68.2	16.66	14.33	4.16	-0.89	-0.86	-0.03	52.39	39.16	0
2000	293	5	187.05	4.32	315.07	10.21	316.45	86.37	19.35	15.71	3.93	-0.82	-0.65	-0.17	52.41	39.28	0
2000	293	6	184.7	3.88	304.13	9.45	312.11	77.49	23.52	19.26	4.73	-1.33	-0.85	-0.49	52.93	40.71	0
2000	293	7	180.69	3.49	299.65	10.33	293.22	72.21	21.84	16.95	4.5	-1.58	-0.75	-0.83	53.86	42.42	0
2000	293	8	171.88	5.49	283.85	8.4	273.16	44.68	18.88	16.96	5.25	-2.38	-1.12	-1.27	54.35	42.85	0
2000	293	9	180.15	8.3	300.97	15.44	291.16	68.02	14.64	13.18	4.56	-2.92	-1.34	-1.58	57.15	43.65	0
2000	293	10	184.16	11.09	303.21	18.54	305.19	70.77	14.66	13.12	4.36	-2.65	-1.32	-1.33	59.11	43.11	0
2000	293	11	181.26	9.64	310.5	17.1	305.78	65.54	17.53	15.73	5.42	-2.82	-1.32	-1.5	60.95	41.5	0
2000	293	12	173.58	9.81	309.94	17.3	313.93	62.41	19.03	17.25	5.74	-2.98	-1.36	-1.62	62.66	38.57	0
2000	293	13	265.21	29.25	326.61	18.54	339.27	56.69	22.46	20.12	6.76	-2.98	-1.27	-1.71	63.5	36.54	0
2000	293	14	282.33	15.36	323.47	17.22	342.35	55.82	18.94	17.32	6.14	-2.76	-1.31	-1.44	63.55	35.69	0
2000	293	15	229.48	34.61	326.02	17.21	352.33	55.75	16.82	14.88	4.99	-2.4	-1.25	-1.15	63.63	35.06	0
2000	293	16	142.73	5.29	311.75	11.81	309.95	59.29	17.44	15.56	4.69	-1.92	-1.23	-0.69	63.01	34.51	0
2000	293	17	138.58	5.11	302.23	11.45	297.04	73.12	14.63	12.88	3.6	-1.28	-1.23	-0.05	61.1	34.17	0
2000	293	18	146.61	4.89	317.38	12.92	349.05	68.27	15.38	13.22	3.53	-1.19	-1.14	-0.06	59.64	33.16	0
2000	293	19	308.89	42.89	339.17	19.02	1.22	41.97	9.55	8.64	4.33	-1.33	-1.06	-0.27	58.66	32.04	0
2000	293	20	334.51	18.76	356.08	19.41	8.22	23.37	10.18	8.58	5.35	-1.5	-1.05	-0.45	57.32	31.7	0
2000	293	21	325.17	13.74	338.27	14.81	2.59	37.16	8.78	7.09	2.81	-0.3	-0.93	0.64	55.26	32.61	0
2000	293	22	304.33	22.5	359.13	34.52	30.65	43.98	7.76	5.64	2.79	2.41	0.04	2.37	51.22	36.22	0
2000	293	23	197.03	19.67	359.35	39.98	40.79	46.35	4.51	3.01	2.34	3.23	0.55	2.67	48.69	35.65	0
2000	294	0	99.91	42.01	41.62	61	40.95	33.98	2.23	2.92	2.23	3.59	0.79	2.8	46.58	35.44	0
2000	294	1	192.3	54.86	353.17	57.57	23.35	19.32	2.98	1.82	2.22	4.44	1.84	2.59	45.24	35.29	0
2000	294	2	3.8	9.43	353.87	27.17	45.86	14.45	4.97	2.58	2.5	5.36	0.7	4.66	44.18	34.11	0
2000	294	3	64.49	9.64	5.26	32.62	146.35	46.03	2.36	2.16	1.67	3.61	0.96	2.65	44.22	34.18	0
2000	294	4	59.31	3.84	144.23	25.21	28.22	6.27	3.12	1.37	1.65	2.74	0.95	1.79	43.81	34.85	0
2000	294	5	55.72	7.94	27.47	25.57	23.46	11.5	2.12	2.76	2.67	4.12	1.11	3.01	42.4	34.51	0
2000	294	6	110.59	25.75	31.56	9.1	17.39	9.9	2.65	3.56	2.36	4.47	1.89	2.58	41.78	33.83	0
2000	294	7	30.84	33.12	49.14	13.35	20.58	11.98	2.64	2.71	2.01	3	1.76	1.24	43.53	35.55	0
2000	294	8	0.29	0.4	68.95	51.01	359.79	22.13	1.65	1.94	1.81	0.84	1.37	-0.54	46.5	36.49	0
2000	294	9	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	1000	1000	1000	999.99	0
2000	294	10	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	999.99	1000	1000	1000	999.99	0
2000	294	11	999.99	999.99	174.6	17.59	177.13	46.17	4.32	4.53	3.61	-2.56	-1.18	-1.38	60.66	31.53	0
2000	294	12	999.99	999.99	165.35	15.16	172.85	30.76	5.26	5.69	4.84	-2.9	-1.17	-1.72	61.94	33.35	0
2000	294	13	999.99	999.99	166.08	21.5	173.55	42.56	4.86	4.99	3.65	-2.8	-1.15	-1.64	63.69	33.74	0
2000	294	14	999.99	999.99	169.71	12.43	180.43	20.55	5.05	5.38	4.85	-2.86	-1.25	-1.61	64.76	36.73	0
2000	294	15	999.99	999.99	154.06	11.65	164.32	35.03	8	7.32	3.79	-2.67	-1.04	-1.62	65.1	28.64	0
2000	294	16	999.99	999.99	152.3	7.1	158.54	40	10.22	8.47	2.93	-0.7	-0.22	-0.48	63.59	34.06	0
2000	294	17	999.99	999.99	183.31	6.68	187.67	30.44	11.51	7.63	2.1	1.26	-0.1	1.35	61	35.8	0
2000	294	18	999.99	999.99	208.88	8.76	136.9	29.93	9.29	6	1.33	1.47	-0.42	1.89	58.89	29.88	0
2000	294	19	999.99	999.99	202.27	4.4	187.54	19.08	10.35	8.42	2.53	1.4	-0.43	1.83	56.51	41.67	0
2000	294	20	999.99	999.99	205.84	6.27	201.33	29.64	6.95	6.03	1.81	1.18	-0.2	1.38	55.14	36.85	0

2000	294	21	999.99	999.99	213.57	14.07	252.27	54.11	8.03	3.75	1.45	2.18	0.76	1.42	53.02	39.03	0
2000	294	22	999.99	999.99	241.67	28.51	15.78	37.03	6.24	2.2	1.28	3.33	0.86	2.46	51.02	28.18	0
2000	294	23	999.99	999.99	240.83	27.34	18.41	39.4	4.83	1.93	1.49	2.49	-0.11	2.59	49.87	42.65	0
2000	295	0	999.99	999.99	233.06	18.39	13.29	15.11	5.06	2.64	1.84	2.8	-0.28	3.08	48.89	41.14	0
2000	295	1	999.99	999.99	236.69	23.57	2.29	17.32	5.08	2.53	1.82	2.63	-0.01	2.64	48.58	38.15	0
2000	295	2	999.99	999.99	270.1	27.86	16.55	17.47	4.93	2.19	1.67	2.6	0.29	2.31	48.07	12.54	0
2000	295	3	999.99	999.99	286.68	34.78	10.14	13.04	4.11	1.41	1.89	2.51	-0.01	2.52	47.46	39.86	0
2000	295	4	999.99	999.99	329.18	31.62	14.66	20.98	2.97	2.29	1.83	1.96	-0.31	2.27	47.71	35.71	0
2000	295	5	999.99	999.99	265.03	29.31	345.55	49.35	4.12	2.41	1.43	1.77	0.12	1.65	47.73	36.03	0
2000	295	6	999.99	999.99	273.77	22.91	37.7	26.77	5.38	3.06	1.71	1.88	0.03	1.84	47.13	34.62	0
2000	295	7	999.99	999.99	252.99	28.25	84.09	56.75	3.82	2.46	1.29	0.93	-0.25	1.18	48.17	44.53	0
2000	295	8	999.99	999.99	204.31	25.06	161.77	43.63	4.45	3	2.18	-1.25	-0.62	-0.64	51.8	40.42	0
2000	295	9	999.99	999.99	173.89	16.11	178.92	28.05	4.2	4.2	3.76	-2.26	-1.1	-1.16	55.62	37.36	0
2000	295	10	999.99	999.99	185.71	16.96	195.82	24.66	5.43	5.69	4.85	-2.4	-1.11	-1.3	59.26	38.44	0
2000	295	11	999.99	999.99	197.92	33.11	215.37	43.12	4.06	4.17	3.57	-2.18	-0.95	-1.23	62.6	42.49	0
2000	295	12	999.99	999.99	190.87	15.57	192.92	24.15	5.05	5.57	4.65	-2.42	-1.13	-1.3	66.21	44.53	0
2000	295	13	999.99	999.99	164.61	17.37	183.49	28.49	6	5.78	4.8	-2.3	-0.97	-1.33	69.44	42.17	0
2000	295	14	999.99	999.99	152.34	14.37	166.52	34.08	6.86	5.59	3.41	-2.6	-1.03	-1.56	71.17	34.92	0
2000	295	15	999.99	999.99	151.73	12.67	167.69	38.7	7.44	5.83	3.24	-2.07	-0.62	-1.44	71.69	43.74	0
2000	295	16	999.99	999.99	170.46	32.35	259.25	39.72	5.78	2.92	2.07	0.62	-0.28	0.89	69.01	45.11	0
2000	295	17	999.99	999.99	181.77	19.12	235.39	40.61	4.84	3.24	1.59	4.39	1.29	3.09	65.86	29.34	0
2000	295	18	999.99	999.99	194.98	12.85	87.58	54.98	5.6	3.58	1.49	5.36	2.02	3.34	63.65	37.47	0
2000	295	19	999.99	999.99	232.42	19.48	351.91	58.2	8.76	4.14	1.53	6.86	1.48	5.37	60.64	42.27	0
2000	295	20	999.99	999.99	357.22	19.77	34.3	17.92	11.92	8.63	3.85	7.24	2.56	4.67	60.91	41.22	0
2000	295	21	999.99	999.99	335.02	7.82	37.54	25.4	12.53	7.27	2.52	6.82	2.41	4.41	60.57	40.55	0
2000	295	22	999.99	999.99	358.73	11.97	20.98	14.2	17.62	14.38	6.7	2.26	0.27	2	62.43	39.63	0
2000	295	23	999.99	999.99	6.3	8.36	9.26	17.94	23.53	18.95	9.04	-0.54	-0.5	-0.04	62.7	25.13	0
2000	296	0	999.99	999.99	358.36	15.19	14.31	19.8	26	22.19	10.91	-1.52	-1	-0.52	61.26	12.78	0
2000	296	1	999.99	999.99	0.41	14.77	11.7	19.68	21.4	18.79	9.71	-1.63	-1.04	-0.6	58.85	32.46	0
2000	296	2	999.99	999.99	5.1	15.95	14.41	18.27	22.47	17.83	10	-1.73	-1.06	-0.67	56.52	34.42	0
2000	296	3	999.99	999.99	11.7	13.77	19.39	16.44	21.19	16.07	9.82	-1.79	-1.08	-0.7	54.26	30.02	0
2000	296	4	999.99	999.99	11.04	15.73	19.95	16.89	20.44	15.4	8.83	-1.76	-1.11	-0.65	52.67	21.74	0
2000	296	5	999.99	999.99	7.08	13.97	14.26	17.67	23.97	18.81	10.68	-1.94	-1.17	-0.77	50.87	18.14	0
2000	296	6	999.99	999.99	14.43	14.18	21.42	19.1	22.93	17.97	11.11	-1.86	-1.14	-0.72	48.81	20.96	0
2000	296	7	999.99	999.99	5.39	15.17	13.89	18.17	21.04	16.86	9.8	-2.17	-1.22	-0.95	47.91	15.8	0
2000	296	8	999.99	999.99	6.09	17.7	11.43	22	18.17	15.11	8.85	-2.67	-1.32	-1.35	48.33	18.02	0
2000	296	9	999.99	999.99	357.23	15.08	3	23.25	15.51	13.72	7.22	-2.94	-1.31	-1.63	49.69	18.12	0
2000	296	10	999.99	999.99	346.23	9.43	354.41	31.48	17.55	16.89	7.35	-3.17	-1.24	-1.93	51.64	15.61	0
2000	296	11	999.99	999.99	348.32	12.52	357.04	27.06	16.56	15.35	7.1	-3.25	-1.29	-1.95	53.71	14.73	0
2000	296	12	999.99	999.99	343.89	9.4	352.82	31.4	15.85	15.21	6.65	-3.32	-1.25	-2.07	55.56	11.95	0
2000	296	13	999.99	999.99	345.52	8.86	350.16	33.32	17.07	16.71	6.99	-3.06	-1.19	-1.87	57.04	1.34	0
2000	296	14	999.99	999.99	349.6	12.48	0.11	29.59	18.01	16.06	7.11	-2.85	-1.28	-1.57	58.28	7.68	0
2000	296	15	999.99	999.99	350.4	11.87	2.56	28.7	17.65	16	7.01	-2.49	-1.22	-1.28	58.55	7.23	0
2000	296	16	999.99	999.99	350.36	12.11	1.57	25.87	16.73	14.57	6.81	-1.89	-1.08	-0.8	57.59	2.82	0
2000	296	17	999.99	999.99	10.49	10.79	17.15	15.45	18.17	15.46	8.44	-1.35	-0.89	-0.46	55.81	0.48	0
2000	296	18	999.99	999.99	19.34	9.37	23.3	13.51	17.17	13.16	7.46	-1.03	-0.8	-0.23	53.99	-1.56	0
2000	296	19	999.99	999.99	18.83	9.69	27.75	14.6	11.18	9.17	5.38	-0.64	-0.79	0.15	52.25	-0.41	0
2000	296	20	999.99	999.99	5.32	11.44	13.75	14.83	12.57	10.44	5.48	-0.71	-0.72	0.02	51.4	-1.15	0
2000	296	21	999.99	999.99	11.58	8.3	33.45	12.35	11.6	9.31	4.64	1.1	-0.42	1.52	48.89	-1.34	0

2000	296	22	999.99	999.99	12.21	9.38	38.08	15.85	11.56	9.33	4.43	1.62	-0.03	1.65	47.39	1.69	0
2000	296	23	999.99	999.99	10.66	7.07	31.83	11.12	12.17	9.77	5.13	1.41	0.08	1.33	46.35	-2.73	0
2000	297	0	999.99	999.99	13.2	5.95	33.37	10.33	11.96	10.3	5.71	2.54	0.62	1.92	44.88	-2.4	0
2000	297	1	999.99	999.99	13.24	9.26	33.96	13.95	9.25	7.95	4.77	3.24	1.19	2.05	43.44	5.78	0
2000	297	2	999.99	999.99	13.28	7.43	31.46	9.37	10.34	8.78	6.25	2.19	0.6	1.58	42.34	-3.12	0
2000	297	3	999.99	999.99	11.33	7.08	31.69	11.02	9.36	8.56	5.61	2.94	0.4	2.53	41.4	10.44	0
2000	297	4	999.99	999.99	14.22	7.11	33.5	12.52	10.25	9.09	5.48	2.76	0.16	2.6	40.89	12.93	0
2000	297	5	999.99	999.99	16.23	6.13	35.41	13.34	10.57	8.88	5.29	2.54	0.43	2.11	40.04	13.7	0
2000	297	6	999.99	999.99	11.15	8.56	43.19	14.94	7.6	6.85	3.72	2.05	-0.12	2.17	39.75	6.03	0
2000	297	7	999.99	999.99	18.54	12.7	32.51	17.11	7.52	6.41	4.05	0.15	-0.4	0.55	41.82	7.59	0
2000	297	8	999.99	999.99	27.39	18.31	34.02	18.07	5.7	5.14	4.19	-1.95	-1.04	-0.91	44.76	8.16	0
2000	297	9	999.99	999.99	6.54	32.24	14.53	38.2	3.9	4.02	3.37	-2.19	-1.11	-1.08	46.79	14.42	0
2000	297	10	999.99	999.99	290.35	27.64	269.02	42.28	3.05	4	3.66	-2.42	-1.14	-1.27	49.91	7.71	0
2000	297	11	999.99	999.99	208.93	16.04	210.9	23.81	5.17	5.54	4.82	-2.6	-1.07	-1.54	53.07	16.03	0
2000	297	12	999.99	999.99	164.16	21.83	175.52	35.95	6.19	6.12	4.6	-3.03	-1.2	-1.83	55.66	27.45	0
2000	297	13	999.99	999.99	161.68	18.6	176.08	22.89	6.35	6.38	5.51	-3.08	-1.09	-1.98	57.54	30.82	0
2000	297	14	999.99	999.99	150.88	10.93	162.75	32.92	6.91	7.04	4.56	-3.3	-1.3	-2	58.52	29.61	0
2000	297	15	999.99	999.99	147.41	8	153.03	41.84	8.44	8.53	3.6	-3.06	-1.14	-1.92	58.79	28.35	0
2000	297	16	999.99	999.99	148.71	6.22	147.99	38.46	10.05	8.63	2.7	-1.35	-0.87	-0.48	57.22	24.59	0
2000	297	17	999.99	999.99	173.82	10.26	156.24	23.38	9.06	6.85	1.93	0.49	-0.51	0.99	55.21	30.43	0
2000	297	18	999.99	999.99	163.79	6.59	160.68	24	6.11	5.41	1.76	0.06	-0.81	0.87	53.62	29.14	0
2000	297	19	999.99	999.99	186.83	7.25	181.49	12.49	7.39	5.69	2.35	0.03	-0.6	0.63	52.7	22.32	0
2000	297	20	999.99	999.99	199.84	7.06	190.19	18.09	8.51	7.13	2.45	0.27	-0.62	0.89	51.29	20.5	0
2000	297	21	999.99	999.99	212.72	7.58	179.95	13.79	6.64	4.64	1.59	0.71	-0.5	1.21	49.86	24.51	0
2000	297	22	999.99	999.99	226.13	11.85	225.62	40.4	7.48	4.79	1.7	0.89	-0.34	1.23	48.89	29.1	0
2000	297	23	999.99	999.99	217.5	12.73	286.13	45.7	7.84	3.92	1.74	1.44	0.32	1.12	48.31	30.08	0
2000	298	0	999.99	999.99	199.48	13.16	354.58	49.45	8.1	4.38	1.36	1.53	0.11	1.42	47.52	19.26	0
2000	298	1	999.99	999.99	230.56	31.76	307.63	42.74	7.8	3.71	1.9	0.67	-0.06	0.73	47.73	22.92	0
2000	298	2	999.99	999.99	223.61	38.28	11.49	40.59	6.26	3.06	1.85	1.28	0.09	1.19	47.16	30.22	0
2000	298	3	999.99	999.99	257.17	33.33	353.85	40.72	6.09	2.99	2.13	1.05	-0.02	1.07	46.9	31.39	0
2000	298	4	999.99	999.99	302.93	45.93	24.77	21.38	4.35	2.24	1.95	1.23	-0.04	1.27	46.39	22.13	0
2000	298	5	999.99	999.99	232.06	38.27	201.96	41.94	6.56	3.27	1.55	0.29	-0.4	0.69	46.04	13.97	0
2000	298	6	999.99	999.99	238.78	27.98	272.7	39.98	5.8	3.48	1.68	0.16	-0.08	0.24	46.32	30.74	0
2000	298	7	999.99	999.99	209.45	21.1	212.82	48.72	5.96	3.35	1.58	-0.8	-0.3	-0.51	47.29	29.16	0
2000	298	8	999.99	999.99	193.31	29.75	203.39	38.93	4.91	4.72	3.69	-2.07	-1.07	-1	50.15	31.46	0
2000	298	9	999.99	999.99	165.09	16.03	168.63	32.55	4.14	3.89	2.83	-2.22	-1.06	-1.16	51.75	32.33	0
2000	298	10	999.99	999.99	166.45	26.28	170.45	52.59	4.35	4.19	3.38	-2.43	-1.14	-1.3	55.48	27.31	0
2000	298	11	999.99	999.99	204.65	29.69	213.49	47.8	4.04	3.88	3.94	-1.83	-0.94	-0.89	58.07	23.46	0
2000	298	12	999.99	999.99	181.37	36.44	156.05	65.58	4.85	4.86	7.31	-2.15	-0.99	-1.16	60.88	30.57	0
2000	298	13	999.99	999.99	183.06	21.43	194.31	27.09	15.13	7.55	5.23	-2.59	-1.08	-1.51	64.54	25.41	0
2000	298	14	999.99	999.99	160.94	13.85	173.21	23.08	5.47	5.38	4.75	-2.93	-1.16	-1.78	66.02	35.65	0
2000	298	15	999.99	999.99	157.73	11.84	171.45	23.79	6	5.03	3.6	-2.42	-1	-1.41	66.72	44.31	0
2000	298	16	999.99	999.99	150.79	11.54	158.96	52.12	7.41	5.39	2.17	-0.9	-0.37	-0.54	65.17	45.23	0
2000	298	17	999.99	999.99	153.62	5.37	139	52.36	5.46	5.81	1.67	1.56	0.92	0.64	62.11	47.72	0
2000	298	18	999.99	999.99	172.33	17.25	17.9	55.52	4.67	2.22	1.27	3.33	1.97	1.36	59.6	49.61	0
2000	298	19	999.99	999.99	182.44	27.97	355.54	27.36	4.27	2.24	1.56	2.85	0.38	2.47	57.15	49.08	0
2000	298	20	999.99	999.99	192.86	39.89	22.5	12.3	3.5	1.66	2.61	2.11	-0.71	2.82	56.24	48.67	0
2000	298	21	999.99	999.99	82.57	30.31	17.64	12.52	3.1	2.55	2.73	3.21	-0.07	3.28	54.81	47	0
2000	298	22	999.99	999.99	132.7	25.03	28.16	28	2.27	2.89	2.07	4.98	1.97	3	53.14	46.91	0

2000	298	23	999.99	999.99	43.89	15.49	25.76	35.97	4.42	5.48	2.56	6.45	3.36	3.08	52.3	46.53	0
2000	299	0	999.99	999.99	11.41	10.03	15.86	20.82	2.41	5.25	3.27	7.1	4.36	2.74	52.18	46.52	0
2000	299	1	999.99	999.99	11.71	10.3	27.8	10.64	6.59	7.39	5.72	8.21	4.29	3.93	52.22	46.65	0
2000	299	2	999.99	999.99	16.09	8.16	37.59	15.79	8.08	8.3	5.87	5.77	2.34	3.43	53.18	47.06	0
2000	299	3	999.99	999.99	20.84	8.73	39.08	15.57	8.01	7.66	4.52	4.25	3.11	1.13	52.81	47.29	0
2000	299	4	999.99	999.99	13.56	10.16	38.78	18.1	4.15	4.54	3.21	4.73	3.24	1.49	51.75	47.06	0
2000	299	5	999.99	999.99	14	7.35	25.35	13.63	9.13	8.38	4.91	4.44	2.45	1.99	51.54	46.75	0
2000	299	6	999.99	999.99	20.33	7.49	54.41	29.01	6.85	7.04	3.94	5.17	2.72	2.46	51.27	46.61	0
2000	299	7	999.99	999.99	28.93	9.31	41.14	20.67	5.94	5.68	3.44	4.64	4.14	0.51	51.73	46.73	0
2000	299	8	999.99	999.99	19.14	11.91	42.65	20.82	7.43	5.14	2.92	2.55	1.66	0.88	55.13	47.86	0
2000	299	9	999.99	999.99	76.73	37.91	98.28	45.07	3.87	2.54	2.13	-1.24	-0.48	-0.76	60.43	50.1	0
2000	299	10	999.99	999.99	43.24	60.1	254.46	42.74	2.89	1.52	1.96	-0.61	-0.02	-0.59	61.94	51.42	0
2000	299	11	999.99	999.99	265.96	43.29	240.44	37.45	2.09	1.67	1.98	-1.22	-0.39	-0.83	63.93	52.16	0
2000	299	12	147.97	37.51	195.84	20.7	199.4	26.61	3.55	3.88	3.52	-2.14	-1.07	-1.07	66.61	51.49	0
2000	299	13	162.8	12.14	193.21	13.7	192.17	21.5	5.64	5.9	4.91	-2.43	-1	-1.42	68.37	51.35	0
2000	299	14	151.37	9.39	183.02	10.97	188.56	17.21	5.74	6.19	5.29	-2.54	-1.19	-1.36	69.36	51.2	0
2000	299	15	138.64	6.79	161.13	10.44	173.76	18.75	5.22	4.87	4.24	-2.18	-0.74	-1.44	69	52.24	0
2000	299	16	149.26	4.46	158.43	7.33	168.36	21.03	9.17	6.02	2.92	-0.18	0.12	-0.3	66.96	51.77	0
2000	299	17	164.25	7.52	168.24	4.84	184.01	14.56	8.38	6.31	2.45	1.55	-0.05	1.6	63.96	52.37	0
2000	299	18	177.81	5.33	192.57	6.32	173.05	10.98	10.76	9.51	4.03	0.75	-0.74	1.49	62.82	51.77	0
2000	299	19	167.02	5.72	185.12	5.02	167.47	15.63	10.43	8.82	3.55	0.5	-0.77	1.27	61.59	49.64	0
2000	299	20	156.29	4.12	182.49	7.58	202.48	48.72	6.51	5.27	1.49	1.09	-0.39	1.48	59.38	51	0
2000	299	21	148.5	3.53	207.45	26.75	20.28	50.21	4.56	2.15	1.24	1.72	-0.32	2.04	57.14	51.74	0
2000	299	22	150.68	8.01	297.02	45.04	10.81	7.99	2.76	1.11	2.06	2.35	-0.76	3.11	55.28	50.17	0
2000	299	23	181.15	22.68	29.99	15.8	11.27	11.86	1.5	2.09	1.94	3.13	0.15	2.98	54.01	49.24	0
2000	300	0	105.41	16.5	32.6	9.64	26.7	7.06	1.54	3.05	2.77	3.52	0.82	2.7	52.84	48.49	0
2000	300	1	67.15	19.94	25.38	10.49	26.75	6.99	1.68	4.42	2.93	3.35	0.41	2.94	51.95	48.13	0
2000	300	2	47.52	26.4	21.88	7.44	26.03	10.83	1.42	4.81	3.18	3.47	0.77	2.69	51.36	47.57	0
2000	300	3	123.66	9.87	12.68	13.68	22.34	41.18	2.33	3.01	1.38	2.94	0.51	2.43	50.52	46.9	0
2000	300	4	201.66	22.79	52.25	21.38	23.08	10.36	1.69	2.18	2.12	3.34	1.76	1.58	50.33	46.68	0
2000	300	5	43.11	39.96	28.32	18.85	23.5	11.26	1	2.08	2.13	3.1	0.87	2.23	49.81	46.13	0
2000	300	6	11.16	12.02	22.48	7.36	23.42	12.36	2.12	5.04	3.28	3.22	1.26	1.96	49.61	46.06	0
2000	300	7	24	36.41	22.93	7.37	59.79	36.43	2.46	4.35	1.9	2.88	1.73	1.15	50.02	46.6	0
2000	300	8	139.42	63.55	99.29	36.73	96.55	48.21	1	1.67	1.63	0.16	0.94	-0.78	53.33	48.46	0
2000	300	9	154.76	16.41	181.24	18.57	186.75	23.79	3.09	3.57	3.43	-1.68	-0.75	-0.93	56.46	50.05	0
2000	300	10	155.76	9.16	176.12	12.97	184.97	18.01	4.09	4.16	4.07	-1.61	-0.61	-1	59.06	50.92	0
2000	300	11	137.59	9.56	188.28	15.1	201.02	20.39	4.47	4.92	4.66	-1.94	-0.93	-1.02	61.31	52.46	0
2000	300	12	138.55	8.89	189.46	15.87	221.01	18.66	5.52	5.4	4.79	-1.01	-0.44	-0.56	62.76	53.19	0
2000	300	13	136.28	9.52	164.35	13.98	182.03	28.71	7.3	6.52	4.66	-1.95	-0.82	-1.13	67.33	48.91	0
2000	300	14	133.55	6.88	154.15	10.22	161.53	28.95	8.85	7.42	4.19	-2.89	-1.16	-1.74	69.15	46.04	0
2000	300	15	138.3	4.15	153.21	7.89	156.25	26.52	8.78	7.2	3.06	-1.52	-0.58	-0.94	68.01	46.44	0
2000	300	16	149.51	3.03	158.4	5.54	165.54	22.91	8.96	5.94	2.23	0.24	-0.05	0.29	66.15	48.04	0
2000	300	17	153.84	2.53	169.05	4.38	185.75	9.27	9.68	6.41	3.58	0.7	0.04	0.66	64.17	49.73	0
2000	300	18	152.64	3.97	169.84	4.01	181.46	22.21	8.77	6.98	2.38	1.32	0.02	1.3	61.98	51.94	0
2000	300	19	166.66	7.16	174.7	6.31	67.91	54.77	6.37	5.75	1.52	2.18	0.09	2.09	59.81	51.52	0
2000	300	20	173.86	6.52	171.3	12.52	7.57	20.72	4.2	2.16	1.66	3.01	0.53	2.49	57.82	50.98	0
2000	300	21	169.9	5.69	130.17	53.96	6.84	9.23	4.51	1.23	1.92	4.13	1.1	3.03	55.54	49.37	0
2000	300	22	177.21	13.18	37.07	24.6	9.81	12.66	2.65	1.4	1.92	3.94	1.07	2.88	54.22	47.84	0
2000	300	23	168.44	10.39	205.94	26.53	11.56	25.02	2.66	1.81	1.28	4.14	2.11	2.03	53.06	47.19	0

2000	301	0	191.5	23.53	14.07	8.06	25.55	8.71	1.31	3.68	2.5	4	1.51	2.49	52.17	46.21	0
2000	301	1	34.32	39.32	24.55	9	24.49	38.14	1.7	4.73	2.67	3.98	1.6	2.38	51.38	45.98	0
2000	301	2	24.74	20.63	23.04	7.62	31.72	17.22	2.06	6.12	3.3	4.39	1.72	2.67	50.7	45.56	0
2000	301	3	20.74	35.44	9.81	16.14	26.36	39.31	2.61	5.36	2.66	4.57	2.2	2.37	49.98	45.19	0
2000	301	4	14.18	8.88	18.39	9.9	23	18.05	3.36	6.36	3.19	4.45	2.93	1.52	49.99	44.99	0
2000	301	5	8.82	15.56	15.68	9.4	26.09	23.79	2.5	4.89	2.55	3.29	1.98	1.3	50.13	44.81	0
2000	301	6	6.5	14.09	27.23	10.82	26.81	34.68	3.67	5.87	2.77	3.5	2.07	1.43	50.15	44.94	0
2000	301	7	8.33	17.7	14.76	6.14	23.25	19.37	3	5.18	2.73	2.69	1.95	0.74	50.91	45.51	0
2000	301	8	29.32	13.65	34.27	20.49	55.76	29.88	3.81	3.47	2.27	1.81	2	-0.19	52.3	45.85	0
2000	301	9	111.86	69.84	282.13	66.38	173.12	51.75	1.9	1.76	1.44	0.19	0.54	-0.35	53.63	46.58	0
2000	301	10	230.79	46.45	97.05	23.99	106.78	32.63	1.72	2.21	1.73	-0.87	0.04	-0.92	55.9	47.19	0
2000	301	11	159.68	46.69	214.35	46.15	219.88	32.35	2.15	1.82	1.91	-1.57	-0.67	-0.89	57.33	47.76	0
2000	301	12	162.57	39.28	219.14	40	222.29	30.53	2.15	2.35	2.3	-1.95	-0.97	-0.99	59.1	47.68	0
2000	301	13	178.16	25.02	226.03	17.8	237.32	21.07	2.45	3.48	3.34	-1.57	-0.73	-0.84	60.51	47.76	0
2000	301	14	159.77	14.99	209.14	25.77	222.13	30.76	3.3	2.51	2.42	-1.78	-0.89	-0.9	62.16	48.7	0
2000	301	15	157.32	10.24	193.8	16.93	205.55	21.03	4.32	2.76	2.25	-1.34	-0.48	-0.86	62.96	48.71	0
2000	301	16	164.48	9.38	208.84	21.33	186.32	42.97	3.71	2.47	1.18	0.06	-0.22	0.29	62.13	48.93	0
2000	301	17	211.45	16.7	270.04	20.94	318.75	36.1	3.89	3.46	1.51	1.88	-0.13	2.01	60.16	50.33	0
2000	301	18	252.48	10.66	7.56	42.26	35.44	19.05	3.63	3.4	3.75	3.93	0.75	3.17	58.39	49.28	0
2000	301	19	286.58	30	12.35	14.78	24.73	17.82	2.47	4.38	2.89	3.56	1.53	2.03	56.61	49.2	0
2000	301	20	281.52	20.9	12.92	8.36	16.97	12.52	2.57	5.8	3.54	3.92	2.43	1.49	55.68	49.05	0
2000	301	21	286.32	40.43	13.78	11.22	28.9	17.87	1.93	4.99	2.87	4.08	2.72	1.36	54.59	48.76	0
2000	301	22	131.88	51.79	14.07	10.11	25.94	20.77	1.88	5.55	3.29	4.64	3.59	1.05	54.28	48.24	0
2000	301	23	197.91	45.27	304.7	26.91	88.41	46.76	2.38	2.48	1.5	2.43	1.01	1.43	53.73	48.26	0
2000	302	0	120.92	48.79	49.26	43.98	25.46	21.25	2.08	2.73	2.52	3.32	1.8	1.53	54.14	48.71	0
2000	302	1	333.69	24.41	26.78	10.27	31.11	16.94	6.14	7.32	4.3	5.84	3.63	2.21	54.51	48.78	0
2000	302	2	317.25	11.55	17.55	9.58	48.41	50.24	10.66	8.26	4.77	5.4	1.92	3.49	55.46	48.92	0
2000	302	3	302.98	6.83	334.61	12.39	60.4	59.44	18	13.1	2.94	3.47	0.76	2.71	58.49	50.2	0
2000	302	4	296.02	4.88	324.66	5.43	19.36	66.64	19.59	16.2	3.33	1.15	-0.1	1.26	60.77	51.54	0
2000	302	5	301.83	5.24	328.53	6.91	349.13	57.28	20.75	18	4.18	0.03	-0.33	0.36	61.42	52.07	0
2000	302	6	331.91	7.04	355.78	11.25	7.97	19.64	22.71	19.26	8.81	-0.91	-0.65	-0.26	59.26	50.97	0
2000	302	7	337.66	10.32	358.7	16.69	10.52	20.24	22.56	18.94	9.68	-2.09	-1.16	-0.93	56.31	46.6	0
2000	302	8	340.35	7.4	2.97	14.38	7.87	21.38	27.44	23.95	12.39	-2.29	-1.21	-1.08	53.7	39.52	0
2000	302	9	336.8	6.64	358.82	16.41	5.63	21.45	27.75	24.41	12.35	-2.8	-1.3	-1.49	52.66	35.98	0
2000	302	10	334.56	7.13	355.94	13.81	2.89	21.51	26.2	23.85	11.7	-3.07	-1.29	-1.78	51.95	33.93	0
2000	302	11	335.77	7.28	357.33	14.73	2.16	23.2	24.7	22.15	11.36	-3.18	-1.34	-1.83	51.72	32.04	0
2000	302	12	335.96	7.05	358.8	16.16	5.4	20.28	26.28	23.63	12.1	-3.1	-1.32	-1.78	52.31	28.91	0
2000	302	13	335.65	5.93	359.18	15.81	6.52	21.96	30.74	27.22	13.8	-2.96	-1.31	-1.65	53.41	23.12	0
2000	302	14	330.54	8.17	353.73	12.34	357.52	26.33	31.06	27.98	13.25	-2.72	-1.24	-1.49	53.31	21.55	0
2000	302	15	328.64	10.4	350.36	15.8	353.84	29.06	25.43	22.89	10.46	-2.47	-1.18	-1.29	52.8	22.24	0
2000	302	16	332.22	7.02	355.69	14.86	0.58	23.97	26.21	23.61	10.92	-2.13	-1.16	-0.96	51.33	22.3	0
2000	302	17	317.04	14.15	339.02	16.54	346.43	35.86	24.91	21.76	8.58	-1.89	-1.11	-0.78	48.85	20.65	0
2000	302	18	302.88	11.05	326.77	12.44	332.96	40.83	25.35	23.12	8.44	-1.89	-1.1	-0.8	46.17	21.6	0
2000	302	19	302.68	17.51	329.66	19.21	341.54	46.7	19.24	16.71	7.28	-1.84	-1.1	-0.73	44.62	22.69	0
2000	302	20	303.38	17.55	331.02	18.12	342.1	50.16	17.35	15.37	5.96	-1.74	-1.08	-0.66	43.76	22.43	0
2000	302	21	310.47	18.5	331.78	18.16	342.99	42.25	15.8	14.73	6.41	-1.76	-1.07	-0.68	43.33	21.17	0
2000	302	22	301.34	16.32	326.82	18.22	339.43	47.25	16.87	14.87	5.61	-1.76	-1.1	-0.66	42.78	19.81	0
2000	302	23	299.59	11.96	322.1	14.02	325.2	53.53	18.32	16.03	4.94	-1.75	-1.12	-0.63	42.13	18.15	0
2000	303	0	302	18.79	325.73	21	332.34	47.51	14.32	12.55	5.37	-1.66	-1.08	-0.58	41.32	16.16	0

2000	303	1	298.12	19.46	324.69	22.22	346.65	53.27	12.36	10.42	4.69	-1.6	-1.06	-0.54	40.55	15.51	0
2000	303	2	299.29	13	322.96	13.28	330.69	53.88	16.5	14.83	4.66	-1.79	-1.15	-0.64	39.54	15.67	0
2000	303	3	293.56	10.67	314.62	12.32	322.17	54.18	18.31	16.07	4.85	-1.97	-1.22	-0.75	38.55	16.21	0
2000	303	4	292.1	13.81	316.74	14.55	332.05	62.98	16.12	13.55	4.4	-1.88	-1.22	-0.66	37.48	16.18	0
2000	303	5	295.62	13.91	320.02	16.38	337.54	49.49	15.57	13.63	5.02	-1.85	-1.15	-0.7	36.57	16.19	0
2000	303	6	300.3	10.63	324.52	12.36	336.78	55.13	22.78	20.47	6.4	-2.13	-1.23	-0.91	36.1	17.39	0
2000	303	7	305.32	13.98	330.89	15.65	340.76	44.83	21.07	19.17	7.06	-2.32	-1.22	-1.11	36.06	17.33	0
2000	303	8	302.29	17.74	324.37	18.93	331.22	46.68	15.93	14.15	6.31	-2.61	-1.21	-1.4	36.6	17.2	0
2000	303	9	297.48	12.72	321.82	15.02	328.52	43.74	18.86	18.01	7.01	-3.21	-1.28	-1.93	37.93	18.07	0
2000	303	10	299.32	17.18	322.4	19.87	334.15	44.09	16.09	14.42	6.01	-3.57	-1.44	-2.13	39.76	19.15	0
2000	303	11	303.59	15.96	326.07	19.13	337.44	47.8	16.76	15.09	5.85	-3.46	-1.34	-2.12	41.32	19.89	0
2000	303	12	313.45	17.95	335.69	22.02	338.59	41.75	16.06	14.28	6.83	-3	-1.35	-1.65	41.83	20.6	0
2000	303	13	337.06	8.21	358.72	14.48	4.11	20.51	18.58	16.39	9.09	-2.75	-1.29	-1.46	40.22	23.16	0
2000	303	14	346.86	11.54	10.31	15.42	11.68	18.91	17.15	14.22	8.96	-2.59	-1.28	-1.3	39.9	22.06	0
2000	303	15	328.26	10.56	350.12	15.1	345.7	29.78	17.34	15.69	7.29	-2.37	-1.13	-1.24	37.17	25.53	0
2000	303	16	314.01	15.25	335.08	15.62	341.62	37.6	13.34	12.15	5.45	-1.86	-1.01	-0.84	35.97	27.66	0
2000	303	17	326.01	12.17	344.93	16.57	351.37	31.15	17.29	15.44	7.34	-1.95	-1.12	-0.84	38.02	24.01	0
2000	303	18	331.18	7.18	354.59	14.71	356.78	22.41	23.39	21.18	10.07	-2.16	-1.22	-0.95	38.12	21.88	0
2000	303	19	326.33	9.7	348.76	14.47	348.88	26.69	23.64	21.38	9.88	-2.06	-1.13	-0.93	37.59	20.92	0
2000	303	20	326.01	7.91	348.47	13.23	349.08	26.6	23.3	21.51	9.1	-2.1	-1.18	-0.92	37.42	21.16	0
2000	303	21	323.08	13.57	345.42	17.92	350.1	28.58	17.74	16.02	8.21	-1.82	-1.06	-0.75	36.99	20.47	0
2000	303	22	320.25	8.95	339.3	12.37	338.07	35	19.02	17.23	6.59	-1.81	-1.07	-0.74	37.04	20.67	0
2000	303	23	319.75	8.83	338.69	12.19	343.76	37.44	17.04	15	5.67	-1.81	-1.08	-0.73	37.13	20.86	0
2000	304	0	288.92	28.8	309.22	32.12	298.9	62.49	7.84	7.11	3.29	-1.43	-0.96	-0.47	36.82	20.43	0
2000	304	1	292.96	38.68	295.82	38.66	281.13	63.28	8	7.38	3.5	-0.98	-0.66	-0.32	36.41	20.72	0
2000	304	2	310.6	24.8	320.75	25.27	321.12	54.87	10.29	8.37	3.59	-1.31	-0.96	-0.34	37.47	21.32	0
2000	304	3	316.12	14.26	338.78	17.06	346.17	32.77	14.09	11.79	5.3	-1.61	-1	-0.6	38.36	21.14	0
2000	304	4	309.54	25.2	326.02	27.12	312.76	57.01	10.65	9.21	4.55	-1.51	-1	-0.52	38.78	20.9	0
2000	304	5	304.32	21.53	315.56	20.84	309.49	59.88	9.7	8.24	2.93	-1.29	-0.96	-0.34	38.93	20.97	0
2000	304	6	318.87	14.14	335.01	18.12	335.01	41.67	13.6	11.52	4.77	-1.62	-1.05	-0.58	39.74	20.43	0
2000	304	7	327.15	7.61	344.72	12.73	350.03	28.41	22.42	20.54	8.64	-2.22	-1.19	-1.03	40.91	22.39	0
2000	304	8	333.46	6.27	355.06	15.8	1.17	22.25	31.85	28.05	13.41	-2.54	-1.29	-1.25	41.75	23.35	0
2000	304	9	332.98	7.38	354.57	15.13	358.43	23.87	28.62	26.1	12.56	-2.96	-1.3	-1.66	42.73	23.6	0
2000	304	10	335.32	6.52	357.32	14.37	1.96	22.46	28.4	25.7	13.04	-3.34	-1.38	-1.97	44.22	24.72	0
2000	304	11	334.08	5.29	355.82	12.9	1.97	22.07	32.2	29.31	13.71	-3.26	-1.36	-1.91	44.27	25.27	0
2000	304	12	333.93	5.92	355.1	14.78	359.66	25.79	26.84	24.73	11.53	-3.14	-1.33	-1.81	44.61	26	0
2000	304	13	334.96	5.75	358.25	14.07	2.02	21.19	18.5	16.63	9.21	-3	-1.34	-1.66	45.3	26.25	0
2000	304	14	343.51	7.11	7.14	12.58	8.26	19.32	16.65	14.56	8.51	-2.56	-1.25	-1.31	45.58	26.1	0
2000	304	15	347.5	7.46	9.95	12.61	9.72	17.62	17.49	15.08	9.32	-2.35	-1.22	-1.13	45.33	26.8	0
2000	304	16	342.92	7.54	5.07	13.59	9.44	18.36	19.71	17.41	10.14	-2.28	-1.21	-1.07	43.76	28.38	0
2000	304	17	338.73	7.67	359.02	15.65	6.36	22.24	19.95	16.79	8.56	-2.17	-1.18	-0.98	43.41	29.27	0
2000	304	18	335.85	9.47	357.01	15.04	4.8	21.31	23.48	20.27	9.92	-1.99	-1.18	-0.81	43.52	28.38	0
2000	304	19	330.99	7.19	351.84	14.71	359.04	26.12	25.73	23.03	10.11	-1.94	-1.16	-0.79	43.87	27.59	0
2000	304	20	325.99	9.23	349.25	15.2	353.35	27.18	26.29	24.06	10.62	-1.91	-1.12	-0.79	43.99	26.87	0
2000	304	21	322.61	9.52	342.98	11.84	344.2	27.88	19.54	17.57	7.46	-1.77	-1.05	-0.71	42.98	26.19	0
2000	304	22	323.06	14.47	343.54	16.71	349.74	27.51	17.33	15.11	7.19	-1.76	-1.04	-0.71	42.43	25.73	0
2000	304	23	310.82	24.72	330.37	27.93	348.34	49.22	11.31	10.06	5.17	-1.76	-1.03	-0.73	42.6	25.22	0
2000	305	0	325.46	21.02	347.79	25.28	352.46	38.74	19.08	16.93	9.18	-1.85	-1.07	-0.79	43.45	26.21	0
2000	305	1	327.67	14.6	346.08	18.98	350.36	33.74	22.62	18.7	8.89	-1.87	-1.08	-0.79	44.08	28.18	0

2000	305	2	329.6	8.2	349.48	14	350.4	30.33	30.42	26.59	11.2	-2	-1.14	-0.86	45.17	30.09	0
2000	305	3	330.44	5.81	352.3	13.74	357.06	25.44	35.02	31.64	13.16	-2.06	-1.18	-0.89	45.64	30.83	0
2000	305	4	326.5	7.49	347.13	12.49	351.8	27.3	32.29	29.38	11.47	-1.97	-1.14	-0.83	45.68	31.03	0
2000	305	5	328.54	7.77	349.76	14.28	352.08	27.99	30.32	27.2	11.73	-1.99	-1.14	-0.85	45.45	30.76	0
2000	305	6	333.21	6.35	355.79	14.84	1.48	22.55	26.8	23.92	11.77	-2.02	-1.16	-0.86	45.15	31.09	0
2000	305	7	332.12	5.54	353.74	10.45	2.97	24.03	27.93	25.62	11.5	-2.13	-1.19	-0.93	44.85	31.57	0
2000	305	8	334.66	7.02	356.35	12.44	1.35	21.4	22.53	20.24	10.13	-2.41	-1.22	-1.19	45.19	32.04	0
2000	305	9	331.85	6.68	353.24	13.3	358.4	23.85	26.56	24.67	11.47	-2.85	-1.28	-1.56	46.45	32.79	0
2000	305	10	336.88	5.6	359.69	14.78	4.01	21.35	24.58	22.56	11.62	-2.84	-1.26	-1.58	46.94	32.78	0
2000	305	11	333.3	6.19	354.74	12.61	357.58	23.88	22.27	20.26	9.73	-3.22	-1.34	-1.88	49.9	33.79	0
2000	305	12	336.09	5.6	359.21	14.65	3.09	20.27	27.62	24.64	12.45	-3.1	-1.29	-1.81	52.1	34.22	0
2000	305	13	333.16	5.45	355.89	15.67	359.17	23.71	32.16	28.81	12.81	-2.89	-1.2	-1.69	53.9	33.13	0
2000	305	14	334.39	5.6	355.82	13.84	0.53	23.38	30.37	26.97	12.62	-2.68	-1.22	-1.46	55.1	32.46	0
2000	305	15	347.36	10.1	10.58	12.46	11.39	18.05	22.83	19.87	11.6	-2.25	-1.18	-1.07	54.78	31.66	0
2000	305	16	344.7	9.09	7.6	14.32	12.72	17.51	18.77	15.73	9.34	-2.07	-1.14	-0.93	53.79	31.2	0
2000	305	17	339.39	6.95	358.94	14.51	8.83	18.1	17.66	16.03	8.35	-1.92	-1.1	-0.82	52.94	31.47	0
2000	305	18	351.15	10.82	15.1	12.3	13.41	16.17	20.41	16.63	10.33	-1.92	-1.12	-0.81	51.57	31.67	0
2000	305	19	344.37	7.36	6.69	15.62	12.77	18.13	21.57	17.39	10.11	-2	-1.16	-0.84	49.88	32.35	0
2000	305	20	344.45	6.72	6.29	14.98	10.18	17.96	24.01	18.79	10.2	-2.14	-1.21	-0.93	47.36	32.89	0
2000	305	21	338.41	8.48	357.54	15.33	0.13	21.53	19.21	16.91	8.81	-2.03	-1.15	-0.88	45.35	33.3	0
2000	305	22	341.32	9.05	2.89	15.17	7.77	18.03	18.39	15.69	9.18	-1.99	-1.13	-0.86	43.26	33.02	0
2000	305	23	330.81	7.24	350.93	12.53	355.95	23.3	20.48	18.67	8.98	-1.98	-1.14	-0.83	43.34	33.47	0
2000	306	0	334.49	6.65	355.23	14.24	3.95	19.95	23.85	21.67	11.2	-2	-1.15	-0.84	43.92	33.63	0
2000	306	1	335.33	6.29	357.04	15.35	6.97	22.79	20.83	18.43	9.65	-1.88	-1.13	-0.75	44.34	33.33	0
2000	306	2	337.56	5.44	0.62	15.88	9.75	19.67	22.66	19.8	10.34	-1.87	-1.11	-0.76	44.6	33.31	0
2000	306	3	338.29	8.54	359.84	14.85	9.47	18.25	18.34	15.43	8.4	-1.77	-1.08	-0.69	44.39	33.1	0
2000	306	4	338.03	8.31	359.69	15.29	11.25	20	18.4	15.41	8.21	-1.77	-1.12	-0.66	44.41	32.71	0
2000	306	5	340.35	6.66	2.66	15.81	12.42	19.2	21.66	18.03	9.9	-1.91	-1.15	-0.76	44.13	32.67	0
2000	306	6	344.29	7.16	7.05	15.47	12.72	16.79	22.16	18.09	10.69	-1.91	-1.14	-0.77	43.51	32.01	0
2000	306	7	337.7	5.38	0.05	15.24	8.9	18.39	22.08	20.25	10.31	-2.1	-1.15	-0.95	43.98	32.61	0
2000	306	8	335.14	5.67	356.37	13.76	3.67	22.55	24.47	22.22	10.78	-2.5	-1.24	-1.26	45.16	32.76	0
2000	306	9	329.66	4.52	351.81	11.32	356.13	24.35	31.45	29.61	12.26	-2.75	-1.2	-1.55	46.95	32.73	0
2000	306	10	331.38	6.25	353.37	9.37	355.18	24.12	24.75	23.65	10.72	-3.01	-1.22	-1.79	48.98	33.02	0
2000	306	11	333.55	6.33	355.1	14.85	358.78	24.45	31.16	28.52	12.82	-3.01	-1.26	-1.75	51.18	31.94	0
2000	306	12	333.68	5.89	355.23	14.17	0.42	24.06	34.26	30.67	13.42	-2.99	-1.31	-1.69	52.75	31.58	0
2000	306	13	332.27	5.34	353.25	12.31	358.1	24.66	30.72	27.89	12.02	-2.96	-1.29	-1.66	53.99	32.24	0
2000	306	14	330.81	7.33	352.02	12.93	353.87	25.92	27.44	25.68	10.91	-2.7	-1.21	-1.49	55.07	31.84	0
2000	306	15	331.19	6.28	352.15	15.11	358.18	27.09	28.09	25.01	10.76	-2.37	-1.19	-1.18	55.16	31.79	0
2000	306	16	337.42	7.54	358.22	15.06	6.13	22.05	20.4	17.01	8.27	-1.91	-1.13	-0.79	54.74	32.26	0
2000	306	17	340.93	7.41	4.01	13.8	14.75	17.38	16.74	13.81	7.32	-1.61	-1.03	-0.58	53.57	32.52	0
2000	306	18	344.25	8.49	7.76	14.01	13.33	15.85	20.97	16.96	10.23	-1.68	-1.04	-0.64	52.77	32.18	0
2000	306	19	344.79	7.76	8.2	15.22	12.34	16.87	23.3	18.63	11.09	-1.72	-1.06	-0.66	51.71	30.73	0
2000	306	20	341.49	5.43	4.82	17.24	11.97	17.8	26.38	22.08	11.71	-1.67	-1.01	-0.66	50.99	30.22	0
2000	306	21	346.24	7.74	10.33	12.66	15.32	16.92	25.42	21.5	12.2	-1.72	-1.04	-0.69	50.4	30.22	0
2000	306	22	342.99	8.43	4.52	14.91	12.62	18.94	20.05	15.99	8.97	-1.82	-1.11	-0.71	49.02	30.78	0
2000	306	23	333.87	6.49	354.18	13.04	359.6	23.64	20.3	18.41	8.58	-1.73	-1.08	-0.65	47.73	30.49	0
2000	307	0	339.67	7.85	0.11	14.68	8.84	20.32	23.31	19.77	10.75	-1.79	-1.09	-0.7	47.26	30.24	0
2000	307	1	345.6	11.58	8.87	15.68	14.6	17.41	20.63	17.39	9.99	-1.67	-1.04	-0.63	47.08	29.81	0
2000	307	2	339.89	7.64	1.71	16.04	11.3	18.97	19.85	17.46	9.75	-1.75	-1.08	-0.67	47.1	29.96	0

2000	307	3	340.89	5.94	2.25	17.33	10.46	18.95	23.99	20.75	11.21	-1.71	-1.05	-0.67	46.78	29.11	0
2000	307	4	345.38	7.06	7.62	11.81	10.92	14.91	19.29	16.6	10.09	-1.7	-1.04	-0.66	46.56	28.47	0
2000	307	5	347.54	11.53	14.49	12.78	21.65	15.6	17.28	14.34	8.51	-1.33	-0.91	-0.42	46.34	27.61	0
2000	307	6	342.5	7.21	5.45	14.2	17.39	17.79	28.52	23.18	12.9	-1.61	-0.99	-0.62	47.35	28.02	0
2000	307	7	346.71	9.08	12.17	13.85	23.54	18.03	19.63	15.08	8.45	-1.78	-1.07	-0.71	46.64	29.2	0
2000	307	8	347.6	8.98	8.35	13.31	13.65	19.17	18.34	15.07	8.62	-2.33	-1.18	-1.15	48.08	29.49	0
2000	307	9	344.53	6.76	5.98	13.08	10.19	18.39	21.56	18.45	10.33	-2.61	-1.2	-1.4	49.91	29.36	0
2000	307	10	336.93	5.66	357.31	15.47	5.03	23.37	25.3	22.82	10.91	-2.82	-1.24	-1.58	52.36	29.29	0
2000	307	11	332.53	4.83	354.1	12.53	0.31	27.06	27.31	24.87	10.42	-2.99	-1.27	-1.72	54.68	29.32	0
2000	307	12	333.92	5.08	355.93	12.81	2.22	24.25	23.08	20.51	9.4	-2.93	-1.25	-1.67	56.42	29.97	0
2000	307	13	333.5	6.43	354.23	14.81	0.14	24.47	25.04	22.64	10.64	-2.66	-1.21	-1.45	58.54	30.57	0
2000	307	14	333.23	5.83	354.7	13.39	0.82	26.2	25.67	23	9.73	-2.47	-1.16	-1.32	60.14	30.14	0
2000	307	15	335.65	6.72	358.29	14.01	5.54	21.26	18.5	16.39	7.78	-2.21	-1.13	-1.07	60.02	30.63	0
2000	307	16	345.63	10.37	8.66	13.4	12.5	14.77	15.38	13.29	8.25	-1.79	-1.07	-0.72	58.93	30.78	0
2000	307	17	338.46	6.24	359.52	13.31	9.49	18.94	18.49	16.28	8.51	-1.45	-0.96	-0.49	57.59	30.25	0
2000	307	18	344.12	6.12	6.66	11.26	9.78	15.55	18.29	15.52	8.36	-1.37	-0.92	-0.45	56.52	30.05	0
2000	307	19	345.43	6.24	7.45	12.4	15.45	17.01	17.32	14.59	7.85	-1.32	-0.91	-0.41	55.73	31.2	0
2000	307	20	343.55	10.13	8.51	14.72	19.03	18.11	16.58	13.94	7.3	-1.05	-0.82	-0.23	55.3	30.9	0
2000	307	21	339.58	7.09	2.33	15.27	7.57	18.99	19.95	16.66	8.8	-1.45	-0.95	-0.5	54.99	32.83	0
2000	307	22	340.52	6.51	2.74	13.38	7.83	17.24	20.23	17.52	9.7	-1.45	-0.93	-0.51	53.72	34.33	0
2000	307	23	342.12	6.53	3.57	14.68	12.96	15.78	23.06	19.78	10.87	-1.51	-0.94	-0.56	52.98	34.73	0
2000	308	0	344.79	7.88	8.55	12.43	15.83	15.61	23.04	19.43	11.09	-1.49	-0.93	-0.56	52.45	34.53	0
2000	308	1	341.51	4.69	3.26	14.19	11.65	16.71	24.58	21.42	11.42	-1.53	-0.92	-0.61	51.87	34.47	0
2000	308	2	344.56	9.17	7.17	12.47	15.15	16.47	19.03	15.88	9.14	-1.43	-0.94	-0.49	50.74	34.08	0
2000	308	3	338.36	7.7	1.48	14.02	10.4	21.74	14.23	11.79	5.71	-1.32	-0.9	-0.43	50.06	34	0
2000	308	4	344.02	9.09	6.9	13.03	15.7	17.68	14.41	11.91	6.52	-1.37	-0.87	-0.51	48.96	33.84	0
2000	308	5	348.24	8	10.3	13.29	9.68	16.19	16.03	12.99	7.28	-1.59	-0.99	-0.6	48.68	33.42	0
2000	308	6	347.08	8.76	9.16	13.71	12.09	16.83	15.42	12.1	6.64	-1.51	-0.95	-0.56	48.6	32.89	0
2000	308	7	344.8	8.84	7.94	14.74	8.6	17.89	14.57	12.61	7.52	-1.86	-1.05	-0.8	49.4	33.01	0
2000	308	8	341.89	6.07	4.87	11.66	9.66	17.36	15.61	13.03	7.36	-2.02	-1.01	-1.02	49.8	33.21	0
2000	308	9	340.67	5.22	2.23	11.96	7.04	16.76	15.15	13.39	7.69	-2.52	-1.17	-1.34	51.96	33.55	0
2000	308	10	333.8	6.84	350.75	10.76	353.33	21.78	12.38	11.7	6.05	-2.83	-1.13	-1.7	54.81	33.44	0
2000	308	11	326.23	5.93	345.85	8.33	349.95	27.37	12.66	12.49	5.66	-2.75	-1.09	-1.66	56.87	32.19	0
2000	308	12	329.29	7.97	353.58	13.03	358.64	23.27	11.45	10.78	6.2	-3.1	-1.31	-1.8	59.26	31.39	0
2000	308	13	340.82	7.29	0.98	13.08	7.32	19.83	10.98	9.99	6.32	-2.74	-1.25	-1.49	59.96	30.92	0
2000	308	14	350.77	17.85	24.81	21.87	25.87	23.75	5.26	5.27	4.39	-2.25	-1.15	-1.1	61.06	32.05	0
2000	308	15	327.37	16.83	345.71	16.42	350.29	23.13	5.11	4.62	3.01	-2	-1.01	-0.99	62.04	31.24	0
2000	308	16	324.54	4.27	352.96	8.9	1.15	16.25	7.75	8.07	3.52	-0.28	-0.56	0.29	61.08	31.39	0
2000	308	17	344.23	6.69	20.61	7.54	24.24	15.49	7.47	7.53	4.07	1.03	-0.08	1.12	58.68	30.98	0
2000	308	18	326.41	15.47	22.64	10.07	53.68	26.38	4.7	5.24	3.56	2.7	1.13	1.56	56.13	32.55	0
2000	308	19	222.9	21.27	293.04	46.73	46.43	26.19	4	1.77	2.55	3.38	1.88	1.5	54.95	33.02	0
2000	308	20	218.22	23.46	50.27	35.26	65.83	36.07	3.33	4.08	2.89	4.43	2.7	1.73	53.82	34.72	0
2000	308	21	40.71	40.44	17.7	10.39	16.96	17.72	2.52	4.74	3.26	3.87	2.29	1.58	53.16	35.82	0
2000	308	22	350.35	32.96	18.69	5.08	31.82	15.13	2.14	5.22	3.05	3.8	2.29	1.5	52.98	37.41	0
2000	308	23	279.31	43.01	9.65	11.82	26.85	19.28	2.19	4.07	2.83	3.08	1.59	1.48	53.18	37.26	0
2000	309	0	215.61	42.97	44.62	34.79	71.79	42.84	2.78	2.99	1.96	3.55	1.54	2.01	51.88	39.78	0
2000	309	1	166.71	39.65	91.91	17	55.42	21.54	3.02	2.86	1.98	1.23	0.62	0.6	51.75	38.75	0
2000	309	2	3.11	17.83	31.53	10.15	38.58	19.23	4.76	4.06	2.54	2.25	1.2	1.04	51.04	40.11	0
2000	309	3	336.44	7.64	19.44	6.01	39	11.42	7.69	8.41	5.81	2.73	0.45	2.27	50.61	40.27	0

2000	309	4	326.87	14.17	22.7	7.27	44.84	20.5	5.51	7.26	4.58	3.35	1.44	1.91	50.03	39.79	0
2000	309	5	310.76	13.31	19.11	8.21	34.48	10.57	4.52	6.58	6.21	3.72	1.26	2.46	49.31	40.09	0
2000	309	6	317.77	7.66	15.97	8.69	33.66	33.28	6.48	7.52	6.53	5.2	1.87	3.33	48.8	39.99	0
2000	309	7	307.06	17.7	35.11	11.52	60.75	41.33	2.59	4.78	2.78	3.13	2.95	0.18	48.06	40.22	0
2000	309	8	342.56	19.84	38.29	11.37	40.26	17.32	2.9	5.37	3.67	2.24	2.9	-0.66	50.3	40.99	0
2000	309	9	102.54	40.24	114.86	47.39	21.7	32.12	2.22	3	2.81	0.06	0.54	-0.48	54.25	42.08	0
2000	309	10	125.21	25.35	180.3	25.82	203.31	18.67	2.4	3.17	3.6	-1.41	-0.59	-0.83	57.98	43.24	0
2000	309	11	136.99	43.01	191.61	30.43	223.63	27.58	2.58	2.77	3.38	-1.72	-1.03	-0.7	61.19	43.66	0
2000	309	12	306.26	56.53	266.15	47.57	339.75	58.46	3.1	3.09	2.96	-1.81	-1.01	-0.79	62.98	43.03	0
2000	309	13	270.08	12.67	294.82	16.84	283.31	45.52	11.53	10.41	4.21	-2.86	-1.22	-1.64	64.86	38.32	0
2000	309	14	269.75	12.82	293.71	17.71	285.6	49.36	14.37	12.35	4.4	-2.55	-1.29	-1.25	63.95	37.01	0
2000	309	15	277.77	8.55	303.44	12.71	303.11	48.83	14.06	12.24	3.86	-2.11	-1.27	-0.84	62.34	39.26	0
2000	309	16	281.25	9.68	305.57	12.63	308.52	54.1	11.79	10.17	2.84	-1.41	-1.17	-0.23	61.12	38.28	0
2000	309	17	285.31	9.29	310.51	11.01	307.19	50.54	17.57	15.6	4.57	-1.58	-1.16	-0.43	59.26	37.02	0
2000	309	18	276.15	9.61	300.08	13.41	290.63	59.22	22.51	19.09	6.25	-1.69	-1.16	-0.54	56.79	35.03	0
2000	309	19	285.5	9.13	312.56	12.16	306.39	60.81	25.48	21.18	6.86	-1.84	-1.13	-0.71	54.91	34.89	0
2000	309	20	283.57	10.4	306.16	12.39	306.57	48.39	20.47	17.57	5.87	-1.78	-1.15	-0.63	53.51	33.73	0
2000	309	21	292.94	10.66	316.76	12.38	322.27	35.43	18.6	15.83	5.34	-1.7	-1.11	-0.6	52.51	33.82	0
2000	309	22	297.84	13.06	321.05	15.02	330.58	42.22	15.09	12.86	4.4	-1.75	-1.17	-0.58	51.91	34	0
2000	309	23	286.78	10.95	311.22	13.58	316.65	41.99	18.72	15.74	5.06	-1.96	-1.18	-0.78	51.31	34.98	0
2000	310	0	287.2	11.96	310.14	14.71	316.21	46.19	16.12	13.86	4.42	-1.83	-1.19	-0.64	50.67	34.99	0
2000	310	1	296.36	26.2	328.19	36.64	327.02	51.89	10.02	8.67	4.02	-1.7	-1.05	-0.65	49.82	34.01	0
2000	310	2	286.99	12.94	311.31	14.74	315.78	40.61	17.81	15.12	5.18	-1.77	-1.13	-0.64	48.95	33.81	0
2000	310	3	284.31	8.18	307.76	9.24	305.95	36.38	25.91	22.43	7.59	-1.77	-1.05	-0.72	48.55	33.57	0
2000	310	4	284.92	9.22	306.58	12.04	312.57	48.89	19.63	16.38	4.87	-1.77	-1.15	-0.62	47.57	34.05	0
2000	310	5	279.23	8.06	299.85	12.15	306.3	52.55	22.68	18.27	5.62	-1.75	-1.11	-0.63	46.77	34.29	0
2000	310	6	289.65	22.62	312.29	28.06	325.92	55.38	13.56	11.35	4.63	-1.65	-1.07	-0.57	45.98	33.19	0
2000	310	7	285.92	18.61	309.42	20.07	313.28	44.14	12.27	10.42	4.42	-1.86	-1.12	-0.74	46.38	32.88	0
2000	310	8	299.37	22.38	317.42	24.12	325.27	49.25	12.7	11.72	5.13	-2.45	-1.2	-1.25	47.83	32.02	0
2000	310	9	298.83	13.08	323.02	14.96	323.51	37.74	20.72	18.71	7.46	-2.85	-1.22	-1.63	49.39	29.14	0
2000	310	10	296.61	14.08	322.25	17.08	323.79	36.13	22.04	19.81	7.9	-2.93	-1.27	-1.65	49.05	27.68	0
2000	310	11	306.65	13.41	332.26	14.16	335.69	33.12	20.21	18.6	7.9	-2.54	-1.19	-1.35	47.78	27.05	0
2000	310	12	292.24	13.55	316.23	15.19	315.3	41.55	22.17	19.77	7.01	-2.88	-1.28	-1.61	48.76	27	0
2000	310	13	303.32	16.98	327.15	20.14	328.66	42.16	21.32	19.04	7.69	-2.88	-1.25	-1.62	49.06	26.95	0
2000	310	14	308.65	13.48	333.08	14.8	332.45	30.47	20.99	18.98	8.04	-3	-1.26	-1.73	48.28	29.12	0
2000	310	15	328.9	10.38	352.31	14.93	353.48	25.66	19.81	18.15	9.09	-2.3	-1.17	-1.13	48.23	29.76	0
2000	310	16	314	15.14	337.23	16.36	338.62	30.29	17.64	15.66	6.77	-2.07	-1.13	-0.95	47.79	30.77	0
2000	310	17	306.32	12.96	330.97	13.84	328.89	33.37	20.22	18.39	7.18	-1.92	-1.09	-0.82	48.26	29.22	0
2000	310	18	298.49	14.71	323.49	17.15	329.64	36.08	19.51	17.57	7.33	-2	-1.15	-0.85	47.21	28.57	0
2000	310	19	304.86	13.25	330.06	14.11	331.42	31.65	19.63	17.96	7.27	-2.01	-1.1	-0.9	46.85	28.29	0
2000	310	20	317.27	15.4	338.99	19.09	347.63	28.45	17.15	15.27	7.51	-1.97	-1.11	-0.85	46.68	28.65	0
2000	310	21	314.49	12.48	337.65	14.45	338.36	31.03	16.57	15.11	6.51	-2	-1.11	-0.89	46.43	29.02	0
2000	310	22	313.2	13.8	338.37	16.01	337.36	29.85	15.84	14.31	6.51	-1.96	-1.1	-0.86	46.11	28.9	0
2000	310	23	322.12	17.71	344.42	18.25	346.75	33.1	14.13	12.58	6.28	-1.83	-1.07	-0.76	45.87	28.44	0
2000	311	0	314.68	15.34	338.85	18.51	341.33	31.23	14.65	13.23	6.17	-1.7	-1.07	-0.64	45.22	28.1	0
2000	311	1	324.91	20.2	350.95	22.48	344.45	39.94	13.76	11.46	6.67	-1.66	-1.01	-0.65	44.86	26.91	0
2000	311	2	318.54	15.06	343.74	17.35	343.52	30.79	17.76	15.4	7.64	-1.68	-1.04	-0.64	44.23	25.99	0
2000	311	3	308.31	12.52	328.98	13.06	327.49	33.32	17.52	15.58	5.89	-1.6	-0.96	-0.63	43.45	25.76	0
2000	311	4	300.4	14.37	323.42	15.03	326.66	40.49	12.77	11.49	4.56	-1.61	-1.1	-0.51	42.12	25.62	0

2000	311	5	296.01	13.88	317.89	17.18	313.29	43.88	12.11	10.32	4.01	-1.52	-1.03	-0.49	41.38	25	0
2000	311	6	309.42	20.89	328.77	20.96	341.09	40.15	9.68	8.14	3.72	-1.4	-0.96	-0.43	41.31	24.28	0
2000	311	7	293.08	15.19	317.12	21.65	334.5	64.2	12.92	11.03	3.85	-1.87	-1.13	-0.74	41.64	25.04	0
2000	311	8	309.35	10.1	335.28	12.99	341.43	29.47	17.35	15.64	6.07	-2.51	-1.15	-1.36	42.41	25.62	0
2000	311	9	330.95	7.7	352.32	13.93	356.8	23.57	16.52	15.17	7.36	-2.78	-1.22	-1.56	44.63	26.01	0
2000	311	10	335.67	5.95	357.48	13.62	0.8	21.06	17.92	16.32	8.48	-3.03	-1.28	-1.76	47.39	27.65	0
2000	311	11	342.8	9.15	5.84	14.22	4.34	19.91	16.73	14.6	8.64	-3.27	-1.41	-1.85	49.33	28.92	0
2000	311	12	348.76	11.57	11.4	14.44	10.04	21.13	12.91	10.93	7.68	-3.18	-1.51	-1.67	50.62	29.49	0
2000	311	13	348.24	11.1	9.47	16.7	12.7	20.76	10.62	9.37	7.04	-2.92	-1.42	-1.5	52.32	30.56	0
2000	311	14	344.19	11.96	8.24	14.7	11.93	17.48	10.09	8.84	6.45	-2.69	-1.31	-1.38	53.68	31	0
2000	311	15	341.04	10.11	3.88	13.53	4.74	19.76	12.22	11.12	6.57	-2.51	-1.25	-1.26	53.9	31.3	0
2000	311	16	323.86	5.64	344.54	7.83	345.41	24.25	12.55	11.97	5.02	-1.88	-1.08	-0.8	52.79	31.29	0
2000	311	17	337.6	7.19	355.98	12.85	2.77	19.85	10.58	9.67	4.55	-1.61	-1.03	-0.58	51.41	31.46	0
2000	311	18	337.8	8.19	358.26	10.53	11.35	18.74	7.02	5.96	2.88	-0.97	-0.87	-0.1	49.78	31.73	0
2000	311	19	329.71	8.57	358.35	12.45	22.97	34.47	8.24	6.22	2.88	-0.33	-0.6	0.26	48.29	32.92	0
2000	311	20	331.12	9.26	0.67	14.33	21.62	22.26	9.85	7.48	3.89	-0.52	-0.74	0.22	47.44	32.13	0
2000	311	21	342.38	9.2	7.94	13.9	17.54	18.93	12.53	10.6	6.25	-1.34	-0.99	-0.36	47.01	32.06	0
2000	311	22	342.37	5.36	4.54	14.8	9.5	17.99	19.67	16.79	8.96	-1.89	-1.11	-0.78	45.86	31.87	0
2000	311	23	339.52	7.41	359.15	15.53	2.59	21.96	17.22	14.94	7.34	-1.78	-1.09	-0.7	44.86	31.85	0
2000	312	0	339.3	12.47	358.83	17.94	11.67	42.1	12.66	9.54	4.18	-1.66	-1.05	-0.61	43.77	31.34	0
2000	312	1	333.66	9.58	353.58	13.87	0.83	26.63	13.72	11.84	5.75	-1.69	-1.07	-0.62	43.32	31.71	0
2000	312	2	339.24	8.22	2.52	15.39	5.03	17.97	12.98	10.99	6.21	-1.66	-1.03	-0.63	43.03	31.98	0
2000	312	3	334.39	5.53	356.71	11.35	2.21	19.48	14.89	13.32	6.5	-1.72	-1.05	-0.67	43.1	32.14	0
2000	312	4	342.27	8.04	5.66	14.26	11.56	24.29	14.2	11.62	6.19	-1.56	-1	-0.56	42.73	32.35	0
2000	312	5	336.31	6.62	356.77	12.78	0.59	17.31	13.17	11.56	6.12	-1.63	-1.04	-0.59	43.3	32.33	0
2000	312	6	337.21	6.56	358.51	12.61	2.24	21.2	15.98	13.92	7.1	-1.72	-1.07	-0.64	43.92	32.58	0
2000	312	7	345.49	9.72	9.04	14.15	11.59	15.61	16.31	13.99	8.98	-2.04	-1.15	-0.89	44.16	33.06	0
2000	312	8	339.53	8.52	2.14	11.77	0.84	19.26	14.53	13.47	7.98	-2.35	-1.15	-1.21	45.07	33.4	0
2000	312	9	336.52	8.04	356.42	12.56	356.86	20.46	13.29	12.81	7.05	-2.76	-1.2	-1.56	47.19	33.98	0
2000	312	10	337.62	5.69	359.67	12.5	2.62	20.85	14.62	13.43	7.44	-3.03	-1.26	-1.77	49.21	33.89	0
2000	312	11	329.13	6.36	351.52	10.31	351.68	23.19	13.57	12.99	6.55	-3.32	-1.28	-2.04	51.32	34.37	0
2000	312	12	329.68	7.82	354.79	11.75	358.15	22	12.35	11.85	6.23	-2.87	-1.21	-1.66	52.49	34.51	0
2000	312	13	334.25	11.1	0.23	13.99	359.25	19.84	12.52	12.09	7.33	-2.61	-1.16	-1.45	53.05	34.87	0
2000	312	14	340.82	7.02	2.79	9.9	2.97	16.77	12.13	11.5	7.27	-2.56	-1.2	-1.36	53.5	35.13	0
2000	312	15	339.88	7.4	1.32	13.04	0.96	20.13	11.09	10.24	5.94	-2.48	-1.2	-1.27	54.3	35.5	0
2000	312	16	335.37	4.84	356.75	11.49	0.11	18.62	12.75	12.23	5.87	-1.86	-1.07	-0.79	53.15	35.51	0
2000	312	17	339.88	6.31	0.14	11.29	6.65	18.93	10.31	9.64	4.65	-1.57	-1.04	-0.54	51.77	35.93	0
2000	312	18	339.2	6.92	0.99	9.37	5.03	18.39	10.63	9.76	5.37	-1.65	-1.05	-0.6	50.46	36.35	0
2000	312	19	341	7.55	2.6	14.3	18.54	29.86	10.78	8.88	4.29	-1.42	-0.99	-0.43	49.17	36.48	0
2000	312	20	342.03	6.59	1.34	10.96	4.34	18.57	12.87	11.41	5.9	-1.67	-1.05	-0.63	48.55	36.8	0
2000	312	21	343.04	7.85	8.29	10.4	12.92	17.19	12.44	9.97	5.82	-1.39	-0.93	-0.45	47.75	36.5	0
2000	312	22	346.43	10.4	7	13.02	11.02	18.55	12.61	10.38	5.48	-1.45	-0.95	-0.51	47.2	36.58	0
2000	312	23	341.29	6.83	2.71	12.28	7.64	17.79	12.01	10.15	5.19	-1.31	-0.93	-0.37	46.31	36.5	0
2000	313	0	335.81	5.77	356.98	13.48	4.47	19.71	15.21	13.06	6.22	-1.74	-1.06	-0.67	46.21	36.96	0
2000	313	1	345.7	7.19	8.46	14.19	20.19	18.78	15.74	12.07	6.58	-1.74	-1.07	-0.68	45.18	36.93	0
2000	313	2	333.33	6.47	354.62	12.45	1.18	25.76	14.46	12.72	5.91	-1.74	-1.07	-0.67	44.82	36.93	0
2000	313	3	338.5	6.82	0.82	13.52	5.59	19.83	15.73	14.23	7.46	-1.78	-1.1	-0.68	44.72	37.1	0
2000	313	4	336.51	6.1	356.4	14	7.31	22.3	14.34	13.34	6.5	-1.7	-1.09	-0.62	44.65	37.17	0
2000	313	5	341.44	4.43	1.23	9.61	7.64	17.39	14.36	13.75	7.38	-1.85	-1.11	-0.74	44.74	37.4	0

2000	313	6	343.56	5.01	5.62	10.6	8.8	20.86	12.61	11.88	6.72	-1.75	-1.06	-0.69	44.5	37.33	0
2000	313	7	321.46	28.4	4.99	39.63	52.35	37.46	6.6	5.74	3.75	-1.43	-0.91	-0.52	44.67	37.37	0
2000	313	8	348.08	7.73	8.68	14.76	12.29	20.21	10.78	9.6	6.29	-2.36	-1.21	-1.15	45.84	38.28	0
2000	313	9	349.39	11.29	10.27	14.29	7.45	21.14	7.39	7.09	5.35	-2.29	-1.16	-1.13	47.65	38.33	0
2000	313	10	349.3	12.94	13.72	15.42	19.91	19.15	6.78	6.66	5.5	-2.26	-1.13	-1.14	49.24	38.8	0
2000	313	11	351.97	13.64	18.13	14.21	21.68	17.56	7.65	7.35	6.27	-2.26	-1.09	-1.17	50.26	39.1	0
2000	313	12	7.91	22.05	34.98	22.47	34.13	27.48	5.24	5.48	4.8	-2.25	-1.08	-1.17	52.51	39.13	0
2000	313	13	24.22	19.45	52.93	29.51	39.24	38.53	4.1	4.06	3.33	-2.36	-1.11	-1.25	55.39	39.31	0
2000	313	14	349.19	18.13	355.26	22.34	340.13	35.56	4.63	3.95	2.87	-1.86	-0.86	-1	56.8	39.93	0
2000	313	15	345.53	27.46	9.15	32.54	19	48.19	3.44	2.75	1.98	-2.05	-1.05	-1	58.5	39.28	0
2000	313	16	187.19	58.26	245.14	57.34	234.59	47.73	1.6	2.17	1.52	-1.05	-0.83	-0.21	57.52	40.14	0
2000	313	17	310.76	49.39	0.47	30.88	42.93	19.93	2.9	4.05	3.63	1.13	-0.16	1.29	55.18	40.13	0
2000	313	18	354.04	8.79	15.31	8.25	34.75	18.97	7.6	7.27	4.71	1.96	0.72	1.24	53.58	40	0
2000	313	19	257.52	20.45	256.52	35.83	74.03	48.05	5.07	3.9	2.59	1.2	0.15	1.05	53.17	40.89	0
2000	313	20	302.24	44.65	13.91	24.88	50.05	21.6	3.19	3.62	2.74	2.79	1.48	1.31	52.83	40.4	0
2000	313	21	333.73	8.76	17.48	5.95	23.74	11.81	5.44	7.26	5.82	2.44	1.03	1.41	52.83	40.58	0
2000	313	22	337.93	4.63	13.54	5.47	24.1	12.18	6.59	7.11	4.91	1.03	0.09	0.94	52.52	40.9	0
2000	313	23	331.74	8.72	17.81	19.51	38.74	51.4	6.18	6.18	3.41	1.92	0.57	1.35	50.85	40.34	0
2000	314	0	270.36	46.29	341.3	32.3	47.87	17.62	2.02	2.24	2.36	2.3	0.84	1.46	49.34	40.73	0
2000	314	1	335.02	11.97	11.48	6.34	31	9.5	4.63	6.21	5.57	4.49	2.56	1.94	47.8	40.55	0
2000	314	2	300.27	34.46	17.32	7.5	32.93	13.54	2.86	6.52	4.91	4.2	2.97	1.23	47.04	40.05	0
2000	314	3	291.86	29.83	20.93	6.51	33.18	10.83	3.28	7.39	5.82	4.03	3.29	0.74	47.01	40.16	0
2000	314	4	335.66	6.61	15.77	8.6	29.67	16.95	6.47	7.11	4.45	2.12	1.43	0.69	48.07	40.55	0
2000	314	5	332.27	20.72	8.12	35.25	83.26	34.44	4.91	3.86	2.95	1.89	1.51	0.37	47.75	40.72	0
2000	314	6	349.76	7.95	26.61	22.53	67.12	54.85	6.54	6.6	3.07	2.37	1.56	0.81	46.85	39.84	0
2000	314	7	336.75	12.58	11.4	13.4	24.91	11.4	5.5	5.27	4.14	0.35	0.53	-0.18	47.21	40.9	0
2000	314	8	5	11.81	39.05	21.84	36.23	23.63	4.43	4.04	3.04	0.21	0.89	-0.68	48.74	41.1	0
2000	314	9	321.11	18.47	43.01	53.88	294.74	46.03	2.26	1.94	2.09	-0.57	0.21	-0.78	50.69	41.9	0
2000	314	10	359.5	40.38	23.2	25.5	20.2	23.84	2.49	2.52	2.54	-1.3	-0.52	-0.79	53.38	41.62	0
2000	314	11	206.42	50.24	249.27	23.62	235.61	32.8	2.6	3.19	2.11	-0.57	-0.26	-0.31	53.16	43.39	0
2000	314	12	227.22	41.98	245.1	36.44	237.4	33.78	2.47	2.46	2.4	-1.92	-0.99	-0.93	56.03	42.75	0
2000	314	13	155.29	19.83	170.16	18.42	170.67	25.86	3.74	3.32	2.65	-2.24	-1.07	-1.16	57.92	43.38	0
2000	314	14	147.79	9.53	174.99	10.71	184.89	15.27	7.2	6.1	4.63	-1.74	-0.76	-0.99	57.24	43.76	0
2000	314	15	132.99	3.13	165.37	6.46	174.41	13.92	7.34	6.22	3.9	-0.63	-0.21	-0.42	57.24	43.74	0
2000	314	16	129.83	3.28	160.19	6.15	170.63	13.13	8.95	6.3	4.15	-1.07	-0.59	-0.48	57.4	44.06	0
2000	314	17	126.19	5.07	157.28	7.91	162.56	21.56	7.4	5.7	2.8	-1.21	-0.74	-0.47	56.78	44.69	0
2000	314	18	125.87	5.72	153.85	7.84	163.58	18.45	7.75	5.62	2.83	-1.48	-0.93	-0.55	56.24	46.08	0
2000	314	19	121.54	5.54	147.79	8.76	153.98	22.5	8.76	6.73	2.74	-1.31	-0.9	-0.41	55.46	47.08	0
2000	314	20	126.48	4.96	152.84	7.25	162.32	21.15	8.45	6.02	2.6	-0.82	-0.7	-0.12	53.59	47.98	0.03
2000	314	21	117.73	6.18	142.63	7.83	131.84	38.41	8.92	5.37	1.32	-0.57	-0.59	0.03	52.95	48.18	0.01
2000	314	22	129.1	5.99	156.49	8.74	166.72	22.85	9.74	6.89	2.87	-0.76	-0.63	-0.12	53.12	48.73	0.01
2000	314	23	125.02	7.62	153.53	11.43	165.03	28.03	9.58	6.87	3.46	-1.03	-0.68	-0.35	52.84	48.31	0.1
2000	315	0	131.01	7.41	160.49	10.64	177.35	24.66	9.32	6.74	3.5	-0.87	-0.61	-0.27	52.67	48.52	0.01
2000	315	1	134.69	6.74	165.94	9.96	172.35	18.71	9.37	6.97	3.85	-1.04	-0.63	-0.41	53.09	49.15	0.05
2000	315	2	109.77	11.87	141.94	32.6	207.47	67.3	8.18	4.78	1.89	-0.94	-0.63	-0.31	53.31	49.18	0.03
2000	315	3	103.99	12.38	129.34	22.23	115.22	72.11	7.88	4.68	1.93	-1.04	-0.71	-0.33	53.47	49.11	0.26
2000	315	4	63.55	28.95	66.85	34.6	46.38	51.13	7.16	5.23	2.61	-1.28	-0.79	-0.49	53.28	49.12	0.25
2000	315	5	80.19	11.2	92.05	18.06	38.69	32.6	8.67	5.69	2.43	-1.14	-0.7	-0.44	53.17	48.77	0.01
2000	315	6	53.77	37.27	60.85	37.64	36.52	52.1	10.21	7.8	4.62	-1.49	-0.9	-0.59	53.6	48.64	0.07

2000	315	7	59.55	27.02	79.1	36.11	66.52	60.16	9.01	7	3.72	-1.52	-0.92	-0.6	53.67	48.73	0.19
2000	315	8	51.88	47.14	50.55	58.01	5.19	62.17	8.21	6.01	3.57	-1.46	-0.87	-0.59	53.61	48.55	0.1
2000	315	9	33.94	15.87	39.68	16.42	17.84	16.65	10.95	8.89	5.8	-1.55	-0.8	-0.75	54.49	50.02	0
2000	315	10	59.63	19.71	76.05	27.44	65.89	54.13	7.64	5.98	3.52	-1.92	-1.05	-0.87	56.19	50.16	0
2000	315	11	55.11	24.04	61.74	29.58	23.01	35.36	5.13	4.41	2.61	-1.73	-1.01	-0.72	56.7	50.95	0
2000	315	12	339.5	12.86	351.66	13.86	343.55	22.21	5.86	6.25	3.92	-1.42	-0.8	-0.61	55.81	51.15	0
2000	315	13	277.57	18.85	300.98	21.27	305.25	54.89	9.85	7.85	2.82	-1.33	-0.83	-0.5	56.21	51.04	0.01
2000	315	14	260.84	25.31	283.3	30.93	267.79	60.22	13.26	11.04	4.87	-1.59	-1.04	-0.55	56.46	47.45	0
2000	315	15	231.64	35.89	247.55	36.07	238.92	56.73	7.59	6.81	3.92	-1.6	-0.97	-0.63	56.17	45.71	0
2000	315	16	258.25	23.43	275.48	25.23	265.43	44.09	10.32	9.09	4.79	-1.77	-1.07	-0.7	56.03	44.81	0
2000	315	17	261.62	14.65	281.25	16.29	267.71	34.98	11.28	9.41	4.22	-1.64	-1.06	-0.58	55.15	44.77	0
2000	315	18	263.4	12.62	285.46	14.69	278.68	32.78	14.51	12.46	4.94	-1.69	-1.11	-0.58	54.62	44.5	0
2000	315	19	272.83	11.44	294.87	13.69	293.14	44.57	16.83	14.33	5.38	-1.68	-1.07	-0.61	54.47	44.86	0
2000	315	20	302.63	16.34	329.54	17.49	336.13	33.33	12.26	10.76	4.95	-1.69	-1.06	-0.64	54.3	44.95	0
2000	315	21	320.94	10.84	350.94	12.93	355.96	20.68	10.18	9.05	4.62	-1.64	-0.82	-0.82	52.44	46.46	0
2000	315	22	337.7	6.35	2.63	9.52	1.92	19.33	8.67	8.03	4.33	-1.53	-0.68	-0.85	51.23	47.11	0
2000	315	23	336.34	5.94	1.13	11.98	8.83	18.95	11.46	9.88	5.04	-1.9	-0.97	-0.94	51.26	46.75	0.01
2000	316	0	326.15	7.06	348.44	11.21	353.35	23.45	15.24	13.21	5.85	-1.73	-1.07	-0.66	50.99	45.69	0.01
2000	316	1	322.1	8.41	344.51	10.85	347.02	26.35	14.68	12.96	5.32	-1.51	-0.94	-0.57	50.7	45.34	0.04
2000	316	2	323.09	7.73	344.21	10.55	342.59	25.47	19.16	16.86	6.83	-1.73	-1.01	-0.72	51.27	45.84	0.01
2000	316	3	321.07	8.58	343.66	9.71	339.34	25.49	17.33	16.01	6.41	-1.75	-1.13	-0.62	51.24	45.89	0.01
2000	316	4	318.02	12.75	344.67	13.85	345	22.63	17.09	15.44	7.38	-1.55	-0.97	-0.58	51.51	45.04	0
2000	316	5	314.33	8.73	337.4	11.15	335.74	26.32	19.15	17.88	7.35	-1.38	-0.83	-0.55	50.92	44.73	0
2000	316	6	321.61	6.23	341.14	8.75	337.37	25.74	19.24	17.11	6.7	-1.78	-1.13	-0.65	51.21	45.6	0
2000	316	7	318.99	6.32	339.65	7.16	338.45	25.37	16.28	15.26	5.96	-1.83	-1.17	-0.66	51.03	45.84	0
2000	316	8	329.28	6.91	346.04	8.12	347.45	23.91	12.13	11.69	5.15	-1.83	-0.96	-0.87	50.92	46.29	0
2000	316	9	326.93	7.67	344.13	8.61	343.45	24.19	12.3	10.81	4.46	-1.89	-1.01	-0.88	51.1	46.56	0
2000	316	10	335.47	4.48	356.56	14.03	357.08	22.78	21.26	18.74	8.04	-2.36	-1.32	-1.05	52.38	47.12	0
2000	316	11	337.69	3.68	0.92	15.07	6.24	18.98	21.71	19.81	9.7	-2.26	-1.21	-1.05	52.92	46.92	0
2000	316	12	332.93	6.26	356.1	12.58	357.65	21.23	21.06	18.91	8.45	-2.06	-1.01	-1.05	53.44	46.34	0
2000	316	13	331.04	6.73	353.51	13.02	999.99	999.99	20.39	18.64	8.62	-1.92	-1.06	-0.86	54.54	45.19	0
2000	316	14	334.82	6.7	357.47	11.43	999.99	999.99	20	18.15	8.71	-1.89	-1.04	-0.85	54.48	44.22	0
2000	316	15	329.61	5.94	351.68	10.52	999.99	999.99	23.25	21.23	8.9	-1.84	-1.05	-0.8	54.4	42.65	0
2000	316	16	332.61	5.11	354.7	11.64	999.99	999.99	21.67	19.64	8.51	-1.81	-1.05	-0.76	53.79	42.21	0
2000	316	17	329.29	5.12	351.19	9.67	999.99	999.99	21.03	19.68	8.66	-1.79	-1.07	-0.72	53.29	40.7	0
2000	316	18	326.5	6.76	347.57	11.09	999.99	999.99	22.75	20.94	8.77	-1.79	-1.07	-0.72	52.45	39.89	0
2000	316	19	325.98	7.08	347.88	10.9	999.99	999.99	24.66	22.57	9.31	-1.83	-1.07	-0.76	51.51	39.21	0
2000	316	20	326.77	7.99	349.06	11.59	999.99	999.99	23.91	22.23	9.79	-1.87	-1.1	-0.78	50.81	38.24	0
2000	316	21	329.38	5.73	350.47	10.43	999.99	999.99	23.4	21.36	8.97	-1.94	-1.11	-0.83	50.2	37.97	0
2000	316	22	333.92	7.04	354.1	15.71	999.99	999.99	23.66	21.4	10.02	-1.94	-1.13	-0.82	49.63	37.71	0
2000	316	23	337.09	7.33	357.06	14.51	999.99	999.99	23.91	21.43	10.47	-1.98	-1.14	-0.84	49.13	37.18	0
2000	317	0	334.03	5.71	354.96	14.27	999.99	999.99	27.47	25.55	11.62	-2.01	-1.14	-0.87	48.44	36.64	0
2000	317	1	341.93	10.26	2.89	15.5	999.99	999.99	22.86	19.58	11.08	-1.95	-1.15	-0.81	48.02	36.38	0
2000	317	2	336.66	7.05	356.08	15.9	999.99	999.99	24.59	22.46	10.75	-1.97	-1.15	-0.83	47.43	35.98	0
2000	317	3	340.09	9.5	2.05	15.15	999.99	999.99	23.24	20.33	10.99	-1.98	-1.13	-0.84	46.89	35.69	0
2000	317	4	337.93	8.15	357.23	14.69	999.99	999.99	21.13	18.33	8.64	-1.99	-1.16	-0.84	46.44	35.57	0
2000	317	5	345.94	8.87	8.04	13.87	999.99	999.99	20.03	16.86	10.18	-1.97	-1.14	-0.83	45.89	35.45	0
2000	317	6	338.94	9.3	0.01	14.99	999.99	999.99	18.29	15.66	8.78	-2.02	-1.15	-0.88	45.43	35.58	0
2000	317	7	333.15	6.24	353.43	12.53	999.99	999.99	23.44	22.09	10.46	-2.13	-1.17	-0.96	45.09	35.28	0

2000	317	8	333.95	5.71	355.05	14.42	999.99	999.99	25.93	23.64	11	-2.49	-1.24	-1.26	45.64	35.26	0
2000	317	9	333.08	6.18	353.43	12.38	999.99	999.99	23.14	21.41	9.57	-2.56	-1.22	-1.34	46.07	35.31	0
2000	317	10	335.28	6.31	356.75	12.72	999.99	999.99	20.81	19.31	9.47	-2.83	-1.24	-1.6	46.72	35.38	0
2000	317	11	338.61	5.36	0.76	14.28	999.99	999.99	19.25	17.7	9.55	-3.16	-1.31	-1.85	46.97	35.28	0
2000	317	12	331.16	7.44	353.27	12.54	999.99	999.99	17.49	16.21	7.97	-3.31	-1.32	-2	47.88	35.1	0
2000	317	13	327.18	7.8	346.62	10.9	999.99	999.99	16.75	16.16	7.56	-3.15	-1.19	-1.95	48.51	34.85	0
2000	317	14	320.46	5.85	341.83	8.19	999.99	999.99	15.15	14.9	6.63	-2.86	-1.12	-1.74	49.09	34.49	0
2000	317	15	332.78	9.89	353.94	14	999.99	999.99	13.86	12.76	6.59	-2.49	-1.2	-1.29	48.44	34.39	0
2000	317	16	349.46	8.48	12.25	12.81	999.99	999.99	12	10.34	6.12	-2.15	-1.21	-0.94	47.44	33.84	0
2000	317	17	354.05	7.82	16.7	10.32	999.99	999.99	13.2	11.26	7.15	-1.99	-1.13	-0.85	45.42	32.96	0
2000	317	18	345.49	9.02	8.64	13.49	999.99	999.99	12.84	10.94	6.56	-1.97	-1.11	-0.86	44.28	32.42	0
2000	317	19	342.78	7.96	5.89	12.81	999.99	999.99	12.4	10.68	6.35	-1.93	-1.09	-0.84	43.93	32.28	0
2000	317	20	335.09	7.2	356.57	11.95	999.99	999.99	10.81	9.66	5.14	-1.84	-1.08	-0.75	43.63	32.21	0
2000	317	21	333.74	6.91	353.71	10.38	999.99	999.99	12.75	12	6.1	-1.87	-1.1	-0.77	42.76	31.89	0
2000	317	22	337.71	7.16	357.26	13.26	999.99	999.99	13.55	12.2	6.49	-1.88	-1.1	-0.78	41.96	31.81	0
2000	317	23	340.37	7.55	0.18	14.38	999.99	999.99	14.81	13.07	7.46	-1.92	-1.09	-0.83	41.55	31.69	0
2000	318	0	342.42	7.22	2.23	15.05	999.99	999.99	14.85	13.28	7.43	-1.97	-1.13	-0.84	41.13	31.57	0
2000	318	1	342.84	6.47	4.87	11.91	999.99	999.99	13.73	12.48	6.91	-1.91	-1.12	-0.79	40.73	31.42	0
2000	318	2	338.62	5.53	1.48	10.18	999.99	999.99	10.12	9.44	5.2	-1.91	-1.09	-0.82	40.28	31.4	0
2000	318	3	347.73	7.3	19.79	10.84	999.99	999.99	9.16	8.73	5.71	-1.78	-0.9	-0.88	39.8	31.2	0
2000	318	4	338.39	8.54	4.78	11.73	999.99	999.99	8.32	7.84	4.9	-1.83	-0.97	-0.86	40.15	31.29	0
2000	318	5	342.28	6.5	3.53	9.34	999.99	999.99	9.6	9.42	5.7	-1.95	-1.02	-0.93	40.56	31.86	0
2000	318	6	351.67	12.14	21.63	21.2	999.99	999.99	9.38	7.92	5.36	-1.84	-0.99	-0.85	40.64	31.53	0
2000	318	7	346.82	12.32	13.68	17.72	999.99	999.99	6.6	5.82	3.65	-1.99	-1.05	-0.94	41.05	32.06	0
2000	318	8	347.87	12.84	12.72	22.2	999.99	999.99	5.06	4.64	3.25	-2.05	-1.08	-0.97	41.45	32.55	0
2000	318	9	359.15	21.09	23.39	23.03	999.99	999.99	3.42	3.43	2.57	-2.05	-1.08	-0.97	41.96	32.93	0
2000	318	10	20.27	13.19	48.52	14.65	999.99	999.99	4.64	4.53	3.71	-2.12	-1.09	-1.03	42.57	33.13	0
2000	318	11	9.59	34.66	22.37	32.11	999.99	999.99	2.6	2.74	2.12	-2.15	-1.14	-1.01	43.72	34.03	0
2000	318	12	114.78	28.72	152.27	33.83	999.99	999.99	3.27	3.06	2.75	-2.21	-1.16	-1.05	45.24	34.45	0
2000	318	13	166.61	12.7	192.1	14.03	999.99	999.99	5.39	5.21	4.2	-2.25	-1.12	-1.13	45.49	35.19	0
2000	318	14	134.32	10.44	161.66	12.98	999.99	999.99	5.18	5.16	3.79	-2.34	-1.16	-1.18	46.62	35.78	0
2000	318	15	130.71	9.22	154.01	11.11	999.99	999.99	5.84	4.99	2.83	-2.02	-1.04	-0.98	47.06	36.18	0
2000	318	16	142.55	9.41	159.74	11.24	999.99	999.99	5.35	4.6	2.32	-1.59	-0.94	-0.65	47.45	36.58	0
2000	318	17	113.33	9.16	128.75	13.07	999.99	999.99	8.03	6.02	2.3	-1.23	-0.82	-0.41	47.08	37.12	0
2000	318	18	127.4	9.54	143.25	17.78	999.99	999.99	6.66	5.11	2.23	-1.2	-0.81	-0.39	47.21	37.99	0
2000	318	19	113.68	12.73	107.61	17.91	999.99	999.99	4.81	4.06	1.96	-1.22	-0.63	-0.58	47.18	38.07	0
2000	318	20	137.89	8.84	158.46	14.87	999.99	999.99	8.12	5.87	2.62	-1.09	-0.72	-0.37	47.86	39.13	0
2000	318	21	133.57	7.43	156.61	9.49	999.99	999.99	8.56	6.88	3.54	-1.59	-0.97	-0.62	49	40.79	0
2000	318	22	137.6	7.03	158.6	8.97	999.99	999.99	7.71	5.98	2.82	-1.49	-0.9	-0.59	49.15	41.22	0
2000	318	23	157.32	10.1	187.38	12.2	999.99	999.99	8.71	7.34	3.84	-1.51	-0.89	-0.62	49.41	41.75	0
2000	319	0	131.87	7.75	149.81	10.6	999.99	999.99	4.55	3.73	1.55	-1.37	-0.87	-0.5	49.19	42.04	0
2000	319	1	159.56	18.46	159.99	16.13	999.99	999.99	3.7	2.94	1.42	-1.12	-0.73	-0.39	49.06	41.83	0
2000	319	2	18.31	50.88	58.52	40.95	999.99	999.99	2.75	3.42	2.22	-1.17	-0.78	-0.39	49.09	42.01	0
2000	319	3	72.31	17.82	56.62	19.65	999.99	999.99	4.77	4.04	2.57	-1.12	-0.63	-0.49	49.05	42.41	0
2000	319	4	99.95	13.43	71.63	25.13	999.99	999.99	4.67	3.88	2.75	-0.83	-0.42	-0.4	48.76	42.2	0
2000	319	5	127.51	30.95	74.75	15.02	999.99	999.99	1.84	3.26	2.18	-1	-0.48	-0.53	49.18	42.59	0
2000	319	6	77.81	14.2	81.4	11.96	999.99	999.99	4.84	4.84	2.51	-0.76	-0.42	-0.34	49.07	42.67	0
2000	319	7	98.18	6.73	107.94	19.33	999.99	999.99	9.07	5.02	1.79	-1.09	-0.49	-0.6	49.55	43.42	0
2000	319	8	125.97	8.18	140.77	17.41	999.99	999.99	5.62	4.14	4.42	-1.3	-0.6	-0.7	50.34	44.11	0

2000	319	9	138.36	6.47	172.77	9.49	999.99	999.99	6.66	4.33	1.6	-0.64	-0.53	-0.11	50.01	45.16	0.07
2000	319	10	114.82	10.07	130.45	16.33	999.99	999.99	6.09	3.71	1.45	-1.29	-0.79	-0.5	50.62	46.31	0.01
2000	319	11	116	9.87	139.44	14.18	999.99	999.99	7.95	5.59	2.33	-1.36	-0.83	-0.53	51.01	46.13	0
2000	319	12	131.64	6.02	157.56	8.4	999.99	999.99	9.05	6.95	3.52	-1.32	-0.81	-0.51	51.22	46.36	0.01
2000	319	13	130.49	11.76	157.82	12.39	999.99	999.99	9.48	7.5	3.93	-1.53	-0.85	-0.68	51.38	46.99	0
2000	319	14	107.61	10.05	133.14	15.32	999.99	999.99	7.02	4.39	1.64	-1.51	-0.83	-0.68	51.56	47.07	0.01
2000	319	15	130.18	5.72	155.44	8.76	168.85	36.67	8.86	6.51	4.81	-1.16	-0.77	-0.39	51.55	46.95	0
2000	319	16	257.04	16.32	280.17	17.57	270.11	53.39	18.07	14.57	5.59	-1.47	-0.9	-0.57	49.7	43.61	0.11
2000	319	17	288.71	14.06	313.32	21.36	327.86	70.86	21.34	15.9	5.67	-1.7	-1.09	-0.61	48.46	39.7	0
2000	319	18	308.63	17.71	336.61	22.13	346.69	42.38	16.07	13.22	5.91	-1.62	-0.98	-0.64	48.18	36.28	0
2000	319	19	281.09	16.16	303.63	17.48	299.29	37.24	10.56	9.1	4.13	-1.53	-1.06	-0.47	47.91	34.7	0
2000	319	20	275.11	11.32	298.62	14.23	300.3	29.1	17.36	14.83	6.74	-1.8	-1.12	-0.69	47.09	35.51	0
2000	319	21	292.53	14.84	314.06	16.65	314.01	33.48	16.42	14.56	6.09	-1.96	-1.2	-0.76	45.76	33.33	0
2000	319	22	278.02	8.88	300.53	11.69	305.93	34.18	21.39	18.29	7	-2.22	-1.29	-0.94	43.62	30.46	0
2000	319	23	281.84	8.59	303.97	12.09	311.19	35.82	23.59	20.41	7.54	-1.99	-1.17	-0.81	42.01	28.75	0
2000	320	0	283.27	10.23	305.3	13.74	312.67	33.59	20.04	16.58	5.96	-1.87	-1.18	-0.69	40.85	27.01	0
2000	320	1	282.49	8.21	304.88	10.97	310.38	39.4	22.47	19.34	7.12	-1.84	-1.12	-0.72	40.39	25.66	0
2000	320	2	272.45	7.97	295.56	10.45	295.95	39.85	22.08	18.66	6.69	-1.78	-1.13	-0.65	39.42	24.6	0
2000	320	3	273.4	7.41	294.71	9.19	292.55	25.63	23.05	19.91	8.62	-1.63	-0.96	-0.67	38.86	23.84	0
2000	320	4	265.34	9.42	290.37	12.24	286.8	25.21	20.31	17.08	7.26	-1.65	-1.08	-0.57	37.85	23.38	0
2000	320	5	267.79	12.39	290.13	14.5	289.28	31.28	15.98	13.27	5.98	-1.63	-1.09	-0.54	37.3	23.32	0
2000	320	6	268.45	9.93	294.2	12.54	291.86	33.03	18.7	15.48	6.36	-1.72	-1.13	-0.58	37.47	23.97	0
2000	320	7	267.89	9.93	291.59	11.47	291.23	28.16	17.69	15	6.88	-1.9	-1.11	-0.79	37.92	23.76	0
2000	320	8	266.57	9.06	291.44	10.9	291.54	26.3	22.88	19.87	8.7	-2.17	-1.16	-1	38.98	24.45	0
2000	320	9	266.43	8.32	292.44	10.09	292.96	24.55	27.14	23.91	10.23	-2.45	-1.23	-1.21	40.51	25.39	0
2000	320	10	270.87	13.53	294.94	14.55	295.72	33.09	19.16	17.11	7.34	-2.63	-1.23	-1.4	42.14	25.63	0
2000	320	11	279.43	16.08	305.75	18.2	307.39	36.98	15.63	14.12	6.28	-2.32	-1.18	-1.14	43.25	25.03	0
2000	320	12	284.44	13.68	310.63	16.18	310.52	33.8	20.79	18.95	8.13	-2.68	-1.23	-1.45	44.53	24.17	0
2000	320	13	289.61	14.87	318.12	15.35	319.64	35.18	20.17	18.4	7.53	-2.98	-1.23	-1.75	45.16	23.97	0
2000	320	14	278.6	22.23	304.58	23.59	303.59	40.99	12.9	11.53	5.75	-2.58	-1.23	-1.36	45.35	22.95	0
2000	320	15	264.38	12.84	288.09	15.09	287	33.01	20.25	18.18	8.36	-2.13	-1.13	-1	45.21	22.25	0
2000	320	16	259.66	14.73	282.45	18.4	283.67	37.82	15.16	13.81	6.03	-1.76	-1.09	-0.67	44.47	22.27	0
2000	320	17	256.53	20.62	276.87	19.93	275.94	35.47	11.15	9.82	5.05	-1.64	-1.01	-0.63	43.6	22.82	0
2000	320	18	253.07	13.28	274.39	14.68	278.15	28.5	15.19	13.26	6.33	-1.52	-0.98	-0.53	42.47	23.28	0
2000	320	19	257.68	10.35	281.95	12.56	284.77	23.6	16.6	13.88	6.16	-1.46	-0.99	-0.47	41.98	23.44	0
2000	320	20	260.25	9.12	285.51	11.16	287.36	26.21	16.49	13.84	5.89	-1.47	-1.01	-0.46	41.31	23.96	0
2000	320	21	254.21	9.71	277.67	11.29	279.73	27.3	18.61	15.08	6.7	-1.52	-0.94	-0.58	40.88	24.44	0
2000	320	22	260.44	10.98	284.32	13.76	282.91	31.49	16.1	12.65	5.55	-1.5	-1.05	-0.45	40.45	25.06	0
2000	320	23	251.77	11.97	275.32	14.51	276.19	24.61	17.36	14.06	6.68	-1.49	-0.96	-0.53	40.44	24.6	0
2000	321	0	258.12	8.25	279.24	9.73	281.99	25.14	22.15	18.83	7.6	-1.38	-0.84	-0.54	40.45	24.19	0
2000	321	1	250.72	12.09	269.34	14.54	269.56	29.78	16.08	13.38	6	-1.5	-0.93	-0.56	41.08	23.59	0
2000	321	2	259.42	12.38	282.53	15.12	284.2	26.34	14.23	12.2	5.53	-1.52	-1.05	-0.48	41.33	23.24	0
2000	321	3	260.68	15.87	283.23	18.25	280.87	34.12	12.77	10.52	5.06	-1.45	-1	-0.45	40.91	22.91	0
2000	321	4	254.23	14.08	267.65	15.18	272.85	26.87	10.95	8.93	4.15	-1.3	-0.89	-0.41	40.44	22.86	0
2000	321	5	253.91	14.96	276.41	14.93	277.29	25.08	10.29	8.73	4.39	-1.55	-1	-0.55	40.97	24.12	0
2000	321	6	248.31	20.7	266.1	23.53	264.07	44.89	6.58	5.72	3.25	-1.72	-1.03	-0.69	41.23	24.38	0
2000	321	7	214.21	8.81	234.39	11.69	224.58	30.17	8.62	7.74	3.66	-1.64	-1.02	-0.62	40.6	24.63	0
2000	321	8	207.68	10.39	226.72	10.75	214.74	26.88	9.53	8.7	4.87	-2.44	-1.17	-1.26	40.7	25.23	0
2000	321	9	203.41	10.82	222.63	15.73	216.5	32.27	8.22	7.29	4.72	-2.52	-1.22	-1.3	41.68	24.48	0

2000	321	10	185.89	15.03	207.16	17.12	200.2	23.85	7.51	7.15	5.17	-2.6	-1.22	-1.38	42.77	23.79	0
2000	321	11	185.51	12.3	210.12	14.62	199.5	22.71	8.73	8.08	5.61	-2.66	-1.18	-1.48	44.23	23.6	0
2000	321	12	196.34	10.86	218.4	12.71	207.3	23.95	9.88	9.05	5.8	-2.81	-1.21	-1.6	45.46	23.36	0
2000	321	13	184.3	13.33	208.18	18.55	196.48	27.21	10.27	8.97	6.28	-2.92	-1.33	-1.59	47.26	23.73	0
2000	321	14	179.26	9.3	201.99	11.63	190.35	16.02	12.56	11.04	7.4	-2.51	-1.22	-1.29	47.79	23.43	0
2000	321	15	176.6	7.31	199.31	9.3	187.97	13.56	14.18	12.61	8.08	-2	-1.09	-0.9	46.98	22.81	0
2000	321	16	165.03	8.16	189.61	9.16	182.43	12.98	12.18	10.5	6.14	-1.74	-1.04	-0.69	46.49	24.01	0
2000	321	17	176.51	7.17	199.99	9.31	191.02	15.28	17.76	15.07	9.18	-1.75	-1.05	-0.7	46.53	24.19	0
2000	321	18	173.66	7.99	197.11	10.15	190.52	15.43	18.94	16.49	10.02	-1.78	-1.06	-0.73	46.06	25.24	0
2000	321	19	174.11	7.58	197.1	9.5	188.79	14.5	15.98	13.65	8.54	-1.77	-1.05	-0.72	45.7	26.02	0
2000	321	20	171.41	7.93	194.97	8.74	186.94	14.44	15.34	13.56	8.69	-1.76	-1.05	-0.71	45.68	26.5	0
2000	321	21	166.7	6.25	190.32	8.47	187.49	13.93	14.49	12.62	7.92	-1.68	-1.01	-0.67	45.75	27.62	0
2000	321	22	160.13	6.85	185.46	8.44	184.98	13.69	14.36	12.36	7.42	-1.65	-1.01	-0.64	46.05	28.58	0
2000	321	23	170.43	7.89	195.81	9.42	191.77	14.57	11.73	10.31	6.34	-1.7	-1.04	-0.67	46.1	29.2	0
2000	322	0	173.07	6.53	197.75	7.61	190.95	13.35	10.93	9.5	6.04	-1.69	-1.02	-0.67	45.94	29.93	0
2000	322	1	172.91	6.97	197.88	8.05	191.04	14.15	10.41	9.07	5.49	-1.64	-1	-0.64	45.8	30.63	0
2000	322	2	169.96	6.22	195.87	6.61	192.6	13.71	10.54	9.69	5.87	-1.6	-1	-0.59	45.65	31.11	0
2000	322	3	171.66	6.14	197.4	7.86	192.82	15.06	11.67	10.21	6.01	-1.54	-1	-0.54	45.28	31.52	0
2000	322	4	179.35	7.01	198.45	7.69	184.81	12.87	12.4	9.99	5.94	-1.37	-0.95	-0.42	44.55	31.45	0
2000	322	5	177.47	5.74	192.66	6.53	180.89	12.77	13.74	12.13	6.57	-0.84	-0.73	-0.11	43.77	31.5	0
2000	322	6	179.03	4.96	193.29	6.24	181.43	11.94	13.05	11.02	5.79	-0.45	-0.59	0.14	42.6	31.3	0
2000	322	7	188.88	3.78	196.02	5.5	174.67	12.41	12.16	12.11	5.61	0.57	0.51	0.06	42.01	31.55	0
2000	322	8	176.92	8.55	185.38	7.47	172.32	13.94	10.85	10.38	6.06	-1.33	-0.38	-0.96	45.04	32.25	0
2000	322	9	191.88	14.64	207.74	16.23	193.94	21.88	11.91	10.88	7.08	-2.65	-1.18	-1.47	48.74	30.93	0
2000	322	10	244.38	11.49	268	12.7	276.36	29.08	22.14	20.6	9.15	-2.47	-1.17	-1.3	49.98	27.01	0
2000	322	11	241.64	11.66	264.3	13.94	268.1	29.82	18.66	16.55	8.08	-2.89	-1.29	-1.6	50.38	27.22	0
2000	322	12	245.51	10.81	267.87	13.61	270.77	29.53	20.4	17.92	8.47	-3.06	-1.28	-1.77	51.21	26.13	0
2000	322	13	257.66	8.75	281.99	12.1	282.45	27.2	22.08	20.54	9.01	-2.5	-1.17	-1.33	50.13	25.61	0
2000	322	14	265.89	12.88	289.33	15.47	293.63	31.44	20.85	18.07	7.88	-2.64	-1.27	-1.37	49.63	25.6	0
2000	322	15	268.53	14.28	293.72	19.14	294.36	32.58	19.34	17.2	7.46	-2.21	-1.17	-1.04	47.31	25.54	0
2000	322	16	275.74	14	300.85	16	301.92	31.76	17.44	15.45	6.62	-1.87	-1.12	-0.75	45.87	25.22	0
2000	322	17	268.68	10.38	292.76	11.93	293.95	26.47	24.25	21.27	8.87	-1.72	-0.97	-0.75	42.88	24.25	0
2000	322	18	261.44	8.47	287.19	11.37	291.47	24.86	23	19.72	9.07	-1.65	-0.97	-0.68	42.39	25.11	0
2000	322	19	270.94	10.91	297.31	13.19	299.55	26.8	20.49	17.9	7.61	-1.65	-1.02	-0.62	42.07	24.53	0
2000	322	20	271.63	10.67	295.95	12.82	297.93	25.07	20.86	17.59	8.21	-1.7	-1.03	-0.67	41.07	24.37	0
2000	322	21	278.46	12.74	302.52	16.42	302.15	31.23	15.26	13.18	5.76	-1.59	-1.03	-0.56	40.06	24.14	0
2000	322	22	274.8	13.18	298.66	17.28	297.38	27.93	11.48	9.89	4.44	-1.51	-1.02	-0.49	39.25	23.24	0
2000	322	23	256.38	13.41	274.16	14.16	278.64	25.8	13.42	10.82	5.35	-1.48	-0.94	-0.55	38.46	24.12	0
2000	323	0	258.82	11.1	280.54	13.67	287.17	26.32	13.88	11.39	5.2	-1.45	-0.94	-0.5	37.97	23.47	0
2000	323	1	260.23	12.68	280.71	14.17	286	26.59	13.66	11.46	5.3	-1.42	-0.93	-0.49	37.83	22.34	0
2000	323	2	260.89	13.36	282.95	14.22	286.35	25.27	14.01	11.56	5.54	-1.44	-0.95	-0.49	37.6	22.17	0
2000	323	3	258.29	14.66	272.35	13.46	278.08	29.57	10.09	8.71	4.19	-1.46	-0.93	-0.53	37.14	21.94	0
2000	323	4	253.04	8.79	271.06	11.26	278.26	24.86	12.29	10.39	4.56	-1.42	-0.93	-0.48	36.35	22.34	0
2000	323	5	252.31	8.94	272.17	9.62	281.37	21.1	13.36	11.59	5.32	-1.47	-0.95	-0.52	36.18	22.29	0
2000	323	6	251.5	7.86	273.18	10.54	277.93	21.7	16.16	12.38	5.59	-1.38	-0.91	-0.47	36.02	22.32	0
2000	323	7	251.3	8.53	272.95	10.87	279.76	23.97	16.48	12.85	5.85	-1.57	-0.97	-0.6	36.49	22.72	0
2000	323	8	270.52	10.39	296.37	11.5	295.51	25.76	19.61	16.79	8.05	-2.19	-1.13	-1.06	38.41	23.47	0
2000	323	9	277.01	16.22	303.44	18.03	303.49	30.74	13.55	13.31	6.17	-2.77	-1.21	-1.56	40.08	23.91	0
2000	323	10	278.35	11.78	304.91	14.13	304.66	32.41	18.94	17.05	7.57	-2.99	-1.27	-1.72	41.63	23.29	0

2000	323	11	268.22	16.35	295.82	19.52	295.8	35.05	16.84	15.21	6.86	-3.03	-1.31	-1.72	43.29	22.71	0
2000	323	12	255.56	13.53	282.49	17.46	286.21	35.13	14.9	13.8	6.78	-3.16	-1.23	-1.93	44.21	20.32	0
2000	323	13	248.18	10.5	271.7	14.46	273.47	30.83	15.07	13.64	6.25	-2.58	-1.19	-1.39	44.13	19.58	0
2000	323	14	249.84	10.89	274.29	15.27	276.86	28.77	15.79	14.64	6.94	-2.45	-1.18	-1.27	43.82	18.79	0
2000	323	15	232.33	9.27	253.05	11.42	258.8	28.04	15.49	14.12	6.5	-2.14	-1.12	-1.02	42.95	19.16	0
2000	323	16	234.3	8.09	253.75	10.92	259.35	26.37	14.06	12.41	5.57	-1.84	-1.06	-0.79	41.76	19.73	0
2000	323	17	218.74	7.57	238.05	11.07	239.73	34.29	14.39	11.73	5.04	-1.93	-1.1	-0.83	40.58	21.23	0
2000	323	18	233.33	8.12	255.28	11.7	259.4	29.8	16.31	12.95	5.81	-1.89	-1.06	-0.83	40.16	22.74	0
2000	323	19	233.58	9.03	260.01	12.27	267.7	25.79	11.99	9.76	4.37	-1.76	-1.02	-0.74	40.05	23.32	0
2000	323	20	224.5	7.27	244.63	9.28	255.55	27.64	12.54	10.53	4.9	-1.79	-1.02	-0.77	40.04	22.7	0
2000	323	21	217.43	6.17	239.63	10.18	233.79	34.7	10.51	8.49	3.38	-1.53	-0.96	-0.57	39.39	22.47	0
2000	323	22	218.13	4.15	240.1	8	239.24	29.96	11.05	8.45	3.25	-1.34	-0.83	-0.51	38.83	22.28	0
2000	323	23	214.29	4.62	230.47	9.49	197.17	29.69	10.23	7.57	2.93	-1.11	-0.76	-0.35	38.44	22.11	0
2000	324	0	205.08	6.06	218.82	6.16	191.1	20.5	7.62	7.03	3.38	-1.4	-0.96	-0.44	38.18	21.69	0
2000	324	1	204.18	8.48	213.23	6.83	187.4	15.08	7.67	7.2	3.66	-1.35	-0.89	-0.46	37.85	21.22	0
2000	324	2	230.32	11.62	244.77	13.79	233.83	46.28	8.72	7.01	2.57	-1.28	-0.77	-0.51	37.32	20.98	0
2000	324	3	232.98	9.63	254.73	12.21	256.77	30.89	11.03	9.75	4.33	-1.59	-1.02	-0.57	36.53	17.76	0
2000	324	4	240.41	9.88	256.9	10.96	261.58	30.38	12.17	10.58	4.82	-1.57	-0.99	-0.58	35.52	17.17	0
2000	324	5	268.54	8.77	291.9	10.46	296.13	24.68	18.56	15.75	6.61	-1.56	-0.97	-0.59	35.11	15.27	0
2000	324	6	272.68	13.07	297.22	16.07	292.01	42.01	13.19	11.2	4.77	-1.68	-1.06	-0.63	34.68	14.46	0
2000	324	7	275.78	22.14	294	22.02	309	57.86	9.97	8.73	3.98	-1.73	-1.04	-0.68	34.61	14.7	0
2000	324	8	279.2	29.91	305.01	36.21	289.05	52.92	8.65	7.42	3.81	-2.17	-1.14	-1.04	35.34	15.52	0
2000	324	9	277.38	24.1	299.33	28.13	303.16	40.08	8.22	7.44	4.42	-2.54	-1.21	-1.33	36.26	16.6	0
2000	324	10	281.08	16.04	308.47	17.63	307.64	30.78	11.15	10.23	5.3	-2.81	-1.2	-1.6	37.68	17.28	0
2000	324	11	281.05	15.29	302.81	17.22	299.11	39.81	8.8	8.24	4.16	-3.26	-1.32	-1.95	39.41	17.61	0
2000	324	12	335.43	55.93	339.14	43.37	318.62	59.36	4.26	4.1	3.06	-2.45	-1.21	-1.23	40.31	16.98	0
2000	324	13	152.93	41.13	173.38	53.19	162.4	40.24	3.76	3.69	3.05	-2.42	-1.14	-1.28	41.41	16.67	0
2000	324	14	158	14.94	174.27	11.94	167.01	20.81	4.74	4.36	3.27	-2.19	-1.06	-1.14	41.41	17.23	0
2000	324	15	192.43	14.35	215.72	16.45	199.31	36.03	6.27	5.85	3.43	-2.07	-1.08	-0.99	41.62	17.36	0
2000	324	16	206.59	10.03	228.91	14.44	205	34.83	5.11	4.68	2.37	-1.61	-1	-0.61	40.77	17.29	0
2000	324	17	213.81	8.5	241.25	11.92	213.31	26.31	3.93	3.81	1.84	-1.15	-0.89	-0.26	40.12	17.87	0
2000	324	18	198.29	19.22	214.7	16.76	152.09	36.25	4.48	3.74	1.72	-0.22	-0.8	0.58	38.14	18.7	0
2000	324	19	202.44	14.57	208.6	11.78	160.34	20.3	4.93	3.99	2.09	-0.19	-0.6	0.4	36.66	18.29	0
2000	324	20	163.69	10.56	170.23	40.23	52.98	42.53	3.06	3.73	1.91	0.46	-0.43	0.89	34.78	19.91	0
2000	324	21	186.41	15.94	24.17	15.49	35.36	8.82	2.44	3.12	3.43	1.81	0.05	1.76	32.81	21.42	0
2000	324	22	216.77	22.91	20.35	12.95	49.59	13.75	2.64	3.44	3.2	2.27	0.28	1.99	31.61	20.53	0
2000	324	23	188.1	13.88	3.33	24.6	30.8	9.92	2.19	2.47	2.65	1.19	-0.05	1.24	31.01	20.99	0
2000	325	0	277.78	43.77	17.5	6.54	35.32	11.61	1.41	4.33	3.57	2.25	0.5	1.75	29.97	20.61	0
2000	325	1	304.4	26.28	10.74	6.9	30.42	9.92	2.2	5.28	3.5	2.51	1.16	1.35	29.26	21.11	0
2000	325	2	196.94	18.83	0.83	21.01	38.62	12.08	2.04	2.84	2.57	1.82	0.3	1.51	28.84	20.65	0
2000	325	3	252.85	44.53	34.59	18.81	36.94	15.39	1.53	3.62	2.91	2.16	0.42	1.74	27.89	20.49	0
2000	325	4	185.37	53.25	45.02	28.26	26.51	21.57	1.64	2.2	2.38	2.03	0.53	1.51	27.67	20.75	0
2000	325	5	191.78	15.64	10.89	15.29	23.28	13.96	2.79	2.56	2.41	2.25	1.1	1.16	27.33	20.87	0
2000	325	6	250.98	35.28	23.81	29.19	45.06	21.84	2.56	2.11	2.14	1.49	0.14	1.34	26.96	20.73	0
2000	325	7	139.37	47.67	21.49	63.73	35.36	28.92	1.47	1.52	1.73	1.31	0.75	0.56	27.36	21.1	0
2000	325	8	167.86	15.33	210.68	49.28	128.16	55.03	3.49	1.85	1.33	0.08	0.07	0.01	29.26	22.09	0
2000	325	9	161.54	20.65	183	19.21	178.04	24.44	3.77	3.6	2.96	-2.15	-1.07	-1.08	32.87	23.51	0
2000	325	10	143.49	11.34	166.79	13.17	170.21	21.19	6.09	5.81	4.58	-2.73	-1.14	-1.59	36.33	23.14	0
2000	325	11	158.21	11.84	180.02	12.54	175.91	19.28	10.91	9.87	6.96	-3.01	-1.28	-1.73	39.43	21.46	0

2000	325	12	153.02	10.14	173.2	10.44	170.99	16.67	11.08	10.56	7.39	-3.07	-1.25	-1.82	41.1	21.38	0
2000	325	13	142.56	10.53	165.47	12.88	165.77	21.41	9.44	8.87	6.12	-3.05	-1.2	-1.85	42.59	21.64	0
2000	325	14	153.05	10.8	175.01	12.76	174.1	18.27	11.87	10.75	7	-2.57	-1.17	-1.4	43.42	21.64	0
2000	325	15	171.95	10.61	192.6	13.22	184.57	17.14	14.34	12.62	7.69	-2.02	-1.09	-0.92	43.57	21.35	0
2000	325	16	175.61	6.82	199.41	8.91	191.69	15.4	11.77	10.25	5.72	-1.54	-1.02	-0.53	43.28	21.95	0
2000	325	17	202.95	8.35	225.91	10.18	216.52	28.27	15.88	14.2	6.66	-1.82	-1.09	-0.73	42.51	24.24	0
2000	325	18	226.75	12.46	247.81	15.58	246.94	35.97	10.6	9.43	4.54	-1.81	-1.02	-0.78	40.19	28.12	0
2000	325	19	183.21	13.29	194.65	9.64	174.54	14.12	9.4	8.54	4.38	-1.4	-0.94	-0.46	38.73	28.76	0
2000	325	20	224.98	20.63	233.83	19.7	210.46	34.05	8.57	7.39	3.92	-1.44	-0.92	-0.53	38.82	24.54	0
2000	325	21	235.45	15.62	253.9	17.08	264.05	32.77	13.55	11.82	5.32	-1.63	-1.03	-0.6	37.81	22.19	0
2000	325	22	243.98	9.71	267.67	11.61	272.75	24.85	16.66	14.55	6.89	-1.7	-1.03	-0.67	36.42	20.5	0
2000	325	23	245.04	10.1	267.19	12.22	270.43	31.7	17.21	14.47	6.29	-1.79	-1.09	-0.7	35.41	17.53	0
2000	326	0	246.09	13.5	265.95	16.41	272.12	44.36	13.08	10.94	4.64	-1.62	-1.01	-0.62	34.08	15.13	0
2000	326	1	251.97	12.57	274.49	14.08	275.9	35.88	12.6	10.55	4.51	-1.56	-1.02	-0.54	33.14	14.75	0
2000	326	2	233.83	14.1	252.72	17.76	247.48	45.75	11.9	9.56	4.29	-1.62	-1.01	-0.6	32.55	15.19	0
2000	326	3	222.32	16.97	237.83	21.23	212.99	51.98	8.9	7.54	3.69	-1.34	-0.91	-0.42	31.86	14.58	0
2000	326	4	255.22	19.92	277.21	24.26	266.02	53.37	10.36	8.24	3.74	-1.51	-0.98	-0.53	32.23	15.2	0
2000	326	5	223.33	32.33	226.53	40	180.76	68.9	7.08	4.88	3.03	-1.27	-0.87	-0.4	31.86	15.39	0
2000	326	6	219.11	20.84	229.59	26.54	187.62	48.54	8.72	6.91	3.5	-1.03	-0.86	-0.17	31.67	15.9	0
2000	326	7	235.71	20.93	252.31	28.5	232.15	53.16	12.16	9.19	4.43	-1.63	-1.03	-0.6	32.87	16.75	0
2000	326	8	239.75	34.62	249.71	44.84	231.84	70.68	9.63	7.85	4.92	-2.18	-1.18	-1.01	34.47	17.34	0
2000	326	9	247.1	40.54	264.98	43.07	265.9	62.71	9.77	8.17	5.03	-2.46	-1.26	-1.21	35.62	17.66	0
2000	326	10	269.16	28.03	294.75	28	298.51	49.35	9.78	9.32	4.87	-2.86	-1.29	-1.57	36.75	18.75	0
2000	326	11	261.29	16.4	287.48	16.35	285.11	34.12	17.93	16.2	7.37	-2.99	-1.36	-1.63	38.09	18.7	0
2000	326	12	263.86	16.48	289.47	19.02	289.58	32.21	14.75	13.39	6.39	-3.12	-1.33	-1.79	38.92	18.41	0
2000	326	13	259.06	15.38	280.19	17.64	282	34.38	17.42	15.9	7.34	-2.63	-1.22	-1.41	38.9	17.9	0
2000	326	14	257.79	14.28	282.12	17.1	278.61	32.58	16.94	15.3	7.12	-2.52	-1.26	-1.26	38.76	18.26	0
2000	326	15	249.06	13.48	271.54	19.46	267.4	34.26	15.72	13.66	6.55	-2.31	-1.17	-1.14	37.68	18.75	0
2000	326	16	257.21	12.35	279.18	14.19	281.48	34.66	16.73	14.54	6.69	-1.89	-1.08	-0.8	36.62	18.5	0
2000	326	17	256.53	14.66	278.44	17.25	276.74	33.57	14.31	11.82	5.58	-1.69	-1.03	-0.66	35.54	18.12	0
2000	326	18	259.97	12.71	284.59	15.14	286.85	32.62	19.42	16.69	7.47	-1.81	-1.07	-0.75	34.62	18.05	0
2000	326	19	258.34	12.19	281.71	14.3	285.75	29.81	17.81	15.37	7.11	-1.75	-1.04	-0.72	33.68	18.2	0
2000	326	20	260.19	8.7	285.77	11.02	290.55	24	22.2	18.9	8.5	-1.79	-1.04	-0.75	33.03	17.02	0
2000	326	21	259.17	11.03	282.83	12.02	288.13	27.13	19.32	16.6	7.43	-1.74	-1.03	-0.71	32.48	15.6	0
2000	326	22	269.68	13.13	295.74	15.25	297.32	30.43	19.64	16.94	7.45	-1.8	-1.1	-0.69	32.17	15.05	0
2000	326	23	270.14	12.54	296.9	14.33	297.32	31.32	18.72	16.53	7.41	-1.82	-1.11	-0.71	31.99	14.4	0
2000	327	0	252.44	24.69	274.63	26.29	270.24	55.67	13.34	10.69	5.35	-1.72	-1.03	-0.69	31.14	14.34	0
2000	327	1	250.69	25.01	272.47	30.45	274.72	55.73	12.43	10.57	5.53	-1.75	-1.02	-0.73	30.42	13.87	0
2000	327	2	265.75	22.05	288.13	26.07	280.1	44.38	13.39	11.01	5.39	-1.78	-1.05	-0.73	29.69	12.46	0
2000	327	3	264.98	22.88	286.64	26.58	286.88	43.79	13.18	11.14	5.89	-1.76	-1.05	-0.71	29.27	12.05	0
2000	327	4	260.9	32.07	288.13	35.54	291.9	59.01	12.59	10.74	5.39	-1.73	-1.02	-0.71	29.06	10.99	0
2000	327	5	257.9	22.8	282.32	28.84	285.91	43.46	11.49	9.49	4.69	-1.74	-1.03	-0.72	28.79	10.53	0
2000	327	6	251.66	19.19	268.12	17.94	270.09	34.13	12.83	11.27	5.28	-1.71	-1.02	-0.69	28.4	10.76	0
2000	327	7	256.43	15.07	279.56	18.4	282.03	34.38	13.73	12.23	5.92	-1.83	-1.1	-0.74	28.3	11.31	0
2000	327	8	270.91	21.01	292.63	22	291.9	40.64	13.24	11.52	5.26	-2.1	-1.17	-0.93	29.16	11.77	0
2000	327	9	277.69	20.21	300.6	21.88	299.81	37.67	15.54	14.08	6.43	-2.23	-1.18	-1.04	30.07	12.08	0
2000	327	10	264.65	12.6	289.26	15.93	290.1	31.65	20.44	18.15	8.38	-2.48	-1.26	-1.22	31.1	12.67	0
2000	327	11	262.08	11.24	286.25	14.62	290.1	27.04	22.21	20.24	9.6	-2.84	-1.33	-1.52	31.75	13.49	0
2000	327	12	268.27	11.35	294.29	15.31	299.99	31.37	22.23	20.22	9.07	-2.93	-1.27	-1.66	32.57	11.66	0

2000	327	13	257.17	9.18	282.25	12.63	284.14	27.04	22	20.02	8.96	-3.13	-1.37	-1.76	33.08	11.23	0
2000	327	14	257.43	14.41	283.39	17.89	280.77	30.88	18.64	17.12	8.16	-2.78	-1.31	-1.47	33.11	10.76	0
2000	327	15	253.05	13.31	277.96	16.29	276.84	30.21	16.81	14.98	7.33	-2.43	-1.19	-1.24	33.22	8.99	0
2000	327	16	248.59	12.15	273.87	13.98	274.87	27.15	13.63	12.1	5.68	-1.86	-1.11	-0.75	32.44	8.47	0
2000	327	17	245.95	12.04	268.24	13.2	277.26	26.12	12.59	10.87	5.22	-1.65	-1.01	-0.65	31.66	8.72	0
2000	327	18	244.37	9.77	265.6	11.94	274.02	27.59	22.33	19.31	8.07	-1.83	-1.04	-0.79	31.41	9.29	0
2000	327	19	242.45	9.89	265.08	12.97	275.08	28.09	19.83	17.13	7.59	-1.84	-1.07	-0.78	30.64	10.02	0
2000	327	20	250.91	11.82	274.09	13.84	280.38	28.85	19.24	16.49	7.36	-1.78	-1.05	-0.73	29.63	10.75	0
2000	327	21	254.84	10.46	278.02	12.18	285.11	25.35	20.24	17.4	7.9	-1.81	-1.02	-0.79	28.84	10.89	0
2000	327	22	264.67	14.97	291.81	19.73	294.39	38.78	16.25	13.62	6	-1.82	-1.06	-0.76	28.31	11.28	0
2000	327	23	275.41	21.2	297.22	25.77	295.06	54.37	13.53	11.54	5.38	-1.75	-1.06	-0.69	27.82	9.83	0
2000	328	0	288.02	14.96	316.38	17.76	315.54	39.25	19.32	17.23	7.69	-1.91	-1.13	-0.79	27.13	6.81	0
2000	328	1	272.44	13.25	299.64	14.73	304.75	30.93	16.63	14.69	6.75	-1.89	-1.09	-0.8	26.21	5.49	0
2000	328	2	280.09	18.08	306.03	20.91	309.29	46.1	14.96	13.03	5.69	-1.88	-1.12	-0.76	25.47	6.24	0
2000	328	3	284.48	11.73	310.34	14.12	310.45	36.28	20.01	17.39	7.03	-2	-1.15	-0.85	24.82	6.71	0
2000	328	4	288.44	12.66	316.08	15.28	309.73	51.52	19.24	16.26	6.15	-2.01	-1.18	-0.83	24.56	7.76	0
2000	328	5	289.35	18.17	314.75	19.89	318.58	51.76	14.6	12.44	5.52	-1.78	-1.06	-0.72	24.63	8.61	0
2000	328	6	291.05	17.66	324.39	22.5	335.35	57.64	12.26	10.11	4.65	-1.77	-1.09	-0.69	24.56	9.35	0
2000	328	7	280.3	16.07	302.57	24.41	273.45	69.51	15.04	11.22	4.71	-1.96	-1.15	-0.8	25.16	10.71	0
2000	328	8	285.65	18.14	310.32	22.88	296.47	52.77	13.81	12.19	5.02	-2.51	-1.22	-1.29	26.25	11.14	0
2000	328	9	283.7	17.6	305.57	21.02	302.51	41.12	11.97	10.87	5.39	-2.83	-1.21	-1.62	27.46	10.94	0
2000	328	10	303.73	29	325.06	34.48	324.86	47.1	7.85	7.17	4.54	-2.88	-1.3	-1.58	29.22	10.92	0
2000	328	11	309	19.18	330.63	20.26	329.72	39.48	12.23	11.1	5.91	-3.06	-1.31	-1.76	31.58	10.38	0
2000	328	12	300.48	20.13	327.34	18.63	327.33	35.01	11.1	10.59	5.5	-3.15	-1.27	-1.87	33.04	9.48	0
2000	328	13	282.71	26.59	305.24	29.79	307.83	38.17	10.2	8.8	4.52	-3.15	-1.36	-1.79	34.42	8.91	0
2000	328	14	286.35	19.94	310.78	21.02	308.53	39.48	11.76	10.46	4.84	-3.06	-1.33	-1.73	34.79	9.38	0
2000	328	15	275.15	11.61	299.1	15.55	301.08	31.86	14.92	13.68	5.96	-2.68	-1.26	-1.42	33.97	9.62	0
2000	328	16	274.1	9.24	297.42	11.78	296.5	27.84	15.18	14.14	6.08	-1.99	-1.16	-0.83	32.16	8.04	0
2000	328	17	270.18	8.88	293.35	10.36	291.45	21.76	14.79	13.4	5.92	-1.75	-1.08	-0.67	30.74	7.91	0
2000	328	18	284.93	10.5	309.1	12.52	311.54	32.87	17.65	15.19	6.08	-1.93	-1.15	-0.78	29.86	8.58	0
2000	328	19	284.98	9.19	310.27	12.1	314.29	36.64	21.41	18.64	7.18	-2.06	-1.17	-0.89	28.84	8.21	0
2000	328	20	312.19	13.81	340.3	15.21	341.44	31.31	15.39	13.94	6.33	-1.96	-1.16	-0.8	27.67	5.93	0
2000	328	21	306.43	15.24	331.81	15.68	337.42	29.24	13.21	12.29	5.71	-1.89	-1.1	-0.79	26.49	4.68	0
2000	328	22	297.87	15.69	320.4	17.43	324.56	34.41	14.29	13.06	5.6	-1.79	-1.07	-0.72	25.88	3.85	0
2000	328	23	295.89	15.15	317.53	14.87	316.21	31.12	13.95	12.54	5.84	-1.75	-1.06	-0.7	25.39	3.82	0
2000	329	0	307.4	18.44	334.03	18.38	338.64	29.99	12.03	11.5	5.63	-1.78	-1.07	-0.7	25.1	4.84	0
2000	329	1	315.71	19.06	337.09	18.69	341.54	30.38	9.8	9.23	4.8	-1.73	-1.04	-0.69	24.89	4.86	0
2000	329	2	304.53	10.09	333.33	9.41	337.22	22.35	11.4	11.09	4.67	-1.58	-0.97	-0.61	24.64	5.1	0
2000	329	3	310.57	6.74	333.33	8.51	339.52	23.67	11.32	11.22	4.69	-1.76	-1.06	-0.7	24.3	6.13	0
2000	329	4	317.09	8.37	332.38	8.5	338.8	25.58	9.19	10.08	4.22	-1.81	-1.07	-0.74	23.28	6.94	0
2000	329	5	340.57	13.31	26.02	14.28	42.81	17.95	4.33	5.1	3.56	-0.91	-0.72	-0.19	21.79	6	0
2000	329	6	330.51	25.71	42.53	11.94	63.2	12.17	2.27	4.15	2.71	-0.38	-0.48	0.1	20.5	5.85	0
2000	329	7	343.38	14.66	24.88	7.97	45.53	17.06	3.09	5.93	3.69	-0.07	0.04	-0.11	20.11	8.79	0
2000	329	8	22.97	20.56	52.76	13.94	44.54	29.16	2.96	4.67	3.26	-1.27	-0.48	-0.79	21.51	8.55	0
2000	329	9	124.11	33.42	138.53	54.65	122.24	62.71	2.82	2.73	2.49	-2.22	-1.23	-0.99	24.54	8.18	0
2000	329	10	107.21	39.25	99.04	48.23	64.89	46.25	2.95	3.12	2.84	-2.3	-1.08	-1.22	27.17	9	0
2000	329	11	297.31	64.14	327.49	56.52	4.76	61.02	3.28	3.53	2.92	-2.41	-1.17	-1.23	29.79	9.76	0
2000	329	12	258.24	26.16	282.78	27.47	283.9	41.4	11.18	9.86	4.91	-3.15	-1.34	-1.81	32.52	10.36	0
2000	329	13	270.54	13.01	295.03	15.97	296.52	36.93	14.12	13.06	5.73	-3.07	-1.25	-1.82	33.57	9.05	0

2000	329	14	268.08	20.01	291.76	24.92	299.13	38.55	11.01	9.91	5.04	-2.88	-1.27	-1.61	34.31	9.31	0
2000	329	15	305.71	15.25	330.47	16.94	332.94	29.65	8.76	8.36	4.38	-2.38	-1.17	-1.21	34.25	9.23	0
2000	329	16	322.72	8.52	346.07	12.08	350.03	27.06	8.07	7.64	3.64	-1.81	-1.09	-0.72	33.76	9.48	0
2000	329	17	322.36	5.66	345.21	9.31	353.68	24.72	7.33	6.84	3.22	-1.6	-1.09	-0.51	33.37	9.44	0
2000	329	18	325.08	13.94	348.09	18.05	26.53	51.31	6.3	5.63	2.5	-1.03	-0.95	-0.08	32.43	10.87	0
2000	329	19	9.62	18.95	48.87	12.69	51.61	21.33	4.35	4.73	2.64	-1.26	-0.86	-0.39	31.76	11.08	0
2000	329	20	29.15	18.65	64.57	13.78	71.64	20.87	3.94	4.56	2.55	-0.97	-0.9	-0.07	31.44	9.9	0
2000	329	21	3.91	12.48	44.89	11.48	74.34	15.39	3.87	4.16	2.74	-0.41	-0.87	0.46	30.7	10.33	0
2000	329	22	13.54	9.08	27.85	6.53	43.85	13.59	4.05	4.72	3.54	0.09	-0.58	0.67	29.76	13.16	0
2000	329	23	25.96	27	14.92	10.15	41.03	9.64	1.8	3.64	3	0.56	-0.18	0.74	28.69	13.14	0
2000	330	0	15.39	7.76	16.03	4.47	31.25	8.38	4.27	7.22	5.7	2.17	1.23	0.94	27.12	14.48	0
2000	330	1	37.92	9.54	18.98	6.06	38	14.04	5.15	6.24	4.58	1.86	0.9	0.97	26.51	13.7	0
2000	330	2	70.25	19.16	12.77	8.21	40.49	17.79	1.88	3.57	3.24	2.05	0.41	1.63	25.38	14	0
2000	330	3	9.7	4.21	21.31	5.33	31.4	8.62	5.17	7.75	6.13	2.7	1.12	1.58	24.41	14.91	0
2000	330	4	32.32	7.64	25.13	4.72	35.96	9.49	5.44	7.4	5.1	1.98	0.77	1.22	24.46	14.56	0
2000	330	5	41.65	15.51	24.83	5.21	35.32	9.44	3.31	6.02	4.37	2.01	0.45	1.56	23.82	13.84	0
2000	330	6	50.96	16.37	24.65	4.96	38.5	11.17	3.62	5.81	3.71	1.99	0.49	1.5	23.72	13.78	0
2000	330	7	96.34	20.21	37.32	14.52	47.79	16.87	2.79	4.78	3.3	1.42	0.07	1.36	24.12	13.52	0
2000	330	8	89.13	17.82	56.88	36.52	52.21	21.22	3.46	3.48	2.56	-0.55	-0.32	-0.23	25.48	11.73	0
2000	330	9	69.25	32.25	44.05	13.4	35.26	14.79	3.66	4.18	3.54	-1.5	-0.51	-0.99	27.12	10.88	0
2000	330	10	37.42	56.63	62.92	71.31	44.96	37.86	1.76	1.99	2.1	-2.02	-1.08	-0.94	28.97	10.16	0
2000	330	11	3.06	27	12.4	26.27	14.23	37.44	3.43	3.62	2.88	-2.21	-1.12	-1.09	30.55	12.84	0
2000	330	12	338.32	26.33	343.42	18.04	345.1	24.63	4.05	4	2.84	-2.2	-1.09	-1.11	32.57	15.11	0
2000	330	13	317.45	40.17	318.44	39.37	352.92	41.06	2.49	2.48	2.06	-2.1	-1.13	-0.98	34.15	16.42	0
2000	330	14	28.34	49.99	216.03	41.93	229.28	44.98	1.64	1.71	1.74	-2.15	-1.13	-1.02	35.14	17.14	0
2000	330	15	127.65	31.74	181.24	24.8	181.2	36.66	2.86	2.22	1.79	-1.74	-0.86	-0.88	35.44	17.47	0
2000	330	16	87.04	9.86	109.55	13.87	85.15	32.32	6.35	4.51	1.69	-1.5	-0.91	-0.59	35.55	18.8	0
2000	330	17	77.94	13	99.57	20.48	96.05	45.05	5.56	3.87	1.76	-1.64	-0.98	-0.65	35.49	20.2	0
2000	330	18	78.5	15.42	92.37	21.17	73.19	43.11	5.42	3.9	1.88	-1.71	-0.98	-0.72	35.26	20.94	0
2000	330	19	74.91	26.38	78.4	23.25	48.26	38.74	4.99	3.72	2.05	-1.58	-0.87	-0.71	34.95	20.38	0
2000	330	20	76.62	27.67	54.1	50.42	24.19	20.67	5.28	3.51	2.52	-1.22	-0.77	-0.45	34.65	18.76	0
2000	330	21	27.07	14.27	26.49	10.71	18.28	13.05	6.64	6.03	4.34	-1.44	-0.85	-0.59	34.58	18.56	0
2000	330	22	13.5	10.39	26.52	10.48	23.03	12.97	8.28	7.13	4.83	-1.68	-0.93	-0.75	34.97	18.7	0
2000	330	23	2.05	14.25	18.01	11.28	19.92	17.26	6.52	6.04	4.24	-1.64	-0.97	-0.68	35.93	19.73	0
2000	331	0	4.3	14.95	19.43	13.3	19.57	15.76	6.28	5.86	4.2	-1.67	-0.95	-0.72	36.43	20.86	0
2000	331	1	355.97	10.59	14.2	12.2	14.47	17.99	8.4	7.18	4.79	-1.64	-0.94	-0.69	37.07	23.45	0
2000	331	2	359.53	12.46	15.27	11.04	15.16	15.76	8.3	6.93	4.56	-1.54	-0.94	-0.6	38.04	26.25	0
2000	331	3	6.55	12.19	20.1	11.59	17.78	15.15	9.68	8.12	5.31	-1.71	-1.01	-0.7	38.4	28.24	0
2000	331	4	16.02	13.77	23.91	14.2	12.82	16.76	9.78	7.99	5.18	-1.64	-0.99	-0.64	38.24	30.58	0.01
2000	331	5	10.94	15.97	12.93	14.14	358.75	16.13	8	7.08	4.49	-1.38	-0.8	-0.58	38.21	32.07	0.03
2000	331	6	26.66	16.97	4.53	11.33	351.92	15.04	8.43	7.35	4.77	-0.22	0.08	-0.3	38.84	33.64	0.03
2000	331	7	61.61	13.69	47.31	18.52	24.54	18.45	12.02	7.82	4.92	0.6	0.26	0.34	40.98	35.69	0.02
2000	331	8	65.83	20.39	81.89	24.51	60.38	43.15	13.2	9.79	4.58	-0.68	-0.57	-0.11	43.95	38.17	0.08
2000	331	9	64.05	26.21	80.02	34.14	60.33	58.96	11.41	7.91	4.41	-1.19	-0.72	-0.46	45.4	39.95	0.15
2000	331	10	68.61	17.33	91.47	22.28	77.25	50.85	15.89	10.72	5.08	-1.14	-0.7	-0.44	46.96	41.39	0.26
2000	331	11	86.07	24.69	107.51	37.67	127.69	58.82	12.23	8.56	4.29	-1.26	-0.77	-0.48	47.71	42.45	0.27
2000	331	12	76.85	17.96	96.41	24.92	78.9	45.12	10.88	7.15	3.68	-1.31	-0.79	-0.53	48.42	43.07	0.03
2000	331	13	43.77	21.94	50.37	27.51	23.89	38.04	9.31	6.78	4.17	-1.24	-0.78	-0.45	48.89	43.52	0.12
2000	331	14	25.48	21.02	20.02	24.72	358.66	37.29	7.45	5.71	3.42	-0.97	-0.61	-0.36	48.76	44.01	0.03

2000	331	15	3.41	13.6	6.3	13.58	353.01	17.85	8.5	7.55	4.38	-0.89	-0.48	-0.42	48.84	44.67	0
2000	331	16	345.23	7.6	5.12	13.75	18.33	14.99	14.04	12.55	6.86	-1.58	-0.68	-0.9	48.74	44.32	0
2000	331	17	346.51	9.18	6.92	13.31	17.19	16.49	13.8	11.63	7.11	-1.86	-0.77	-1.08	48.49	43.68	0
2000	331	18	341.08	8.07	1.53	12.66	9.74	19.68	11.18	9.18	4.99	-1.62	-0.75	-0.87	47.73	42.35	0
2000	331	19	328	11	1.16	11.59	11.74	17.54	9.14	8.14	5.38	-1.42	-0.75	-0.67	46.29	41.06	0
2000	331	20	309.15	17.17	345.96	18.34	13.54	30.5	8.4	6.88	3.76	-1.59	-0.96	-0.62	46	40.37	0
2000	331	21	304.39	15.3	336.43	23.62	6.68	36.61	7.68	6.14	3.06	-1.43	-0.91	-0.51	45.81	39.6	0
2000	331	22	322.19	6.45	353.85	10.91	18.12	25.9	7.35	6.13	3.18	-1.47	-0.84	-0.63	45.53	39.33	0
2000	331	23	246.95	47.87	39.61	40.35	135.22	28.23	1.84	1.58	1.53	-0.78	-0.72	-0.07	44.6	39.31	0
2000	332	0	173.08	41.74	156.61	38.58	133.81	48.84	2.64	2.93	1.8	0.03	-0.21	0.23	44.15	39	0
2000	332	1	154.6	15.5	165.93	15.32	192.21	47.95	6.4	4.88	2.49	0.48	0.08	0.4	43.83	39.03	0
2000	332	2	183.1	16.73	166.1	8.76	147.58	37.97	5.37	4.91	2.2	1.56	0.13	1.43	44.47	39.56	0
2000	332	3	201.49	12.53	186.66	10.88	157.3	11.5	6.9	7.16	2.39	2.21	0.29	1.92	43.69	38.71	0
2000	332	4	173.57	5.93	181.6	7.5	168.35	31.74	7.73	6.25	1.99	1.14	0.19	0.94	43.07	38.2	0
2000	332	5	172	7.29	182.23	8.38	196.21	37.03	6.05	4.58	1.41	0.63	0.2	0.43	43.1	38.46	0
2000	332	6	150.71	10.57	162.79	10.15	160.49	36.7	5.55	4.85	1.53	0.23	-0.32	0.55	43.61	38.5	0
2000	332	7	186.39	7.4	189.23	6.64	176.86	26.22	7.5	4.79	1.76	1.18	0.54	0.64	43.96	38.48	0
2000	332	8	181.99	18.56	173.73	13.2	156.91	56.52	7.64	5.68	2.34	0.71	0.08	0.64	44.88	39.07	0
2000	332	9	223.92	17.62	226.42	22.22	210.93	38.56	9.64	7.58	3.47	-1.16	-0.62	-0.55	48.88	38.53	0
2000	332	10	248.52	11.09	272.06	15.62	279.75	32.56	16.98	14.82	6.5	-1.89	-1.11	-0.78	50.18	36.39	0
2000	332	11	241.15	13.46	262.02	16.32	267.58	30.22	15.85	13.98	6.75	-1.94	-1.07	-0.87	50.27	35.09	0
2000	332	12	242.3	12.14	265.22	14.85	271.42	27.01	17.73	15.71	7.61	-2.12	-1.1	-1.02	50.05	34.8	0
2000	332	13	250.19	13.39	271.64	16.99	272.53	32.67	14.31	12.4	5.82	-2.11	-1.13	-0.97	50.18	34.25	0
2000	332	14	253.34	13.37	276.19	14.3	274.58	27.27	11.34	10.34	4.92	-1.85	-1.11	-0.74	49.77	34.07	0
2000	332	15	247.44	11.86	270.24	13.59	276.65	27.34	13.51	11.83	5.5	-1.79	-1.05	-0.74	49.4	34.03	0
2000	332	16	244	10.7	266.74	12.83	272.27	26.33	12.59	10.69	4.81	-1.55	-0.99	-0.57	48.77	34.15	0
2000	332	17	232.3	11.69	250.71	12	258.21	30.16	12	10.18	4.4	-1.45	-0.93	-0.52	48.59	34.29	0
2000	332	18	236.3	10.84	255.81	13.33	261.95	29.3	11.47	9.61	4.35	-1.51	-0.95	-0.56	48.58	33.9	0
2000	332	19	219.7	10.66	238.13	12.7	228.08	36.37	10.42	8.37	3.28	-1.49	-0.97	-0.51	48.25	33.79	0
2000	332	20	224.36	11.58	239.41	13.67	225.31	29.82	9.12	7.54	3.43	-1.45	-0.96	-0.49	47.78	33.63	0
2000	332	21	216.67	19.89	228.62	20.57	203.46	26.71	7.17	5.93	3.38	-1.57	-1.01	-0.56	47.63	33.45	0
2000	332	22	234.6	16.04	246.18	18.86	246.57	35.17	8.59	7.17	3.63	-1.57	-0.97	-0.6	47.56	33.54	0
2000	332	23	229.72	15.59	242.8	14.03	235.68	28	9.37	7.99	4	-1.54	-0.97	-0.57	47.53	33.4	0
2000	333	0	233.79	10.24	249.5	10.68	257	24.58	11.43	9.82	4.57	-1.5	-0.96	-0.53	47.32	33.46	0
2000	333	1	244.58	14.18	262.2	17.78	262.95	38.36	11.31	9.01	3.8	-1.38	-0.92	-0.46	46.7	33.13	0
2000	333	2	262.52	14.74	287.84	17.12	284.98	30.2	12.74	10.3	4.84	-1.38	-0.97	-0.4	46.26	33.01	0
2000	333	3	276.53	21.43	297.65	22.68	300.02	42.31	10	8.9	3.88	-1.5	-1.03	-0.48	45.7	32.85	0
2000	333	4	285.19	24.58	303.01	25.19	290.25	41.75	9.54	8.18	4.19	-1.37	-0.99	-0.38	45.1	31.15	0
2000	333	5	267.01	17.69	279.94	19.25	259.41	38.28	7.54	6.73	3.36	-1.25	-0.92	-0.33	43.96	30.75	0
2000	333	6	264.26	17.75	265.33	14.71	242.82	29.35	6.44	6.23	2.96	-1.27	-0.75	-0.52	43.55	31.48	0
2000	333	7	264.13	26.48	262.1	23.09	232.12	38.57	3.94	3.84	2.41	-0.87	-0.79	-0.08	43.52	31.73	0
2000	333	8	244.43	10.9	250.01	11.27	229.02	22.28	6.85	6.85	3.47	-1.48	-0.83	-0.65	44.44	32.01	0
2000	333	9	261.86	27.84	267.58	38.41	229.44	33.47	5.58	4.29	2.98	-2.04	-1.08	-0.96	45.64	32.16	0
2000	333	10	272.46	23.81	292.95	27.8	279.79	37.56	7.4	6.42	3.6	-2.25	-1.15	-1.1	46.95	31.97	0
2000	333	11	284.14	18.78	308.75	22.16	305.13	39.02	7.97	7.32	3.51	-2.37	-1.21	-1.16	47.51	31.5	0
2000	333	12	265.57	13.08	288	16.95	283.07	32.09	9.36	8.59	4.27	-2.19	-1.21	-0.97	47.63	30.86	0
2000	333	13	241	11.16	263.23	16.51	263.96	27.94	9.64	8.46	4.1	-1.94	-1.07	-0.87	47.57	31.03	0
2000	333	14	225.8	11.44	241.96	14.58	242.51	35.96	6.75	6.33	3.02	-1.98	-1.06	-0.91	47.53	31.46	0
2000	333	15	210.14	7.91	229.63	9.65	210.53	22.7	6.6	5.97	2.92	-1.98	-1.06	-0.92	47.83	31.4	0

2000	333	16	198.71	8.18	213.37	8	186.08	14.49	6.73	5.94	3.21	-1.52	-0.99	-0.53	47.75	31.23	0
2000	333	17	198.06	5.65	209.7	4.95	173.29	10.19	6.69	5.98	2.6	-1.05	-0.93	-0.12	47.48	31.24	0
2000	333	18	193.39	3.39	207.05	4.8	200.1	19.55	5.98	4.95	1.33	-0.64	-0.83	0.19	46.9	33.07	0
2000	333	19	203.19	4.44	228.04	3.81	231.04	23.22	5.84	4.78	1.35	-0.49	-0.77	0.28	46.54	33.76	0
2000	333	20	200.4	9.37	209.98	9.89	154.51	16.63	6.68	5.18	1.92	0.27	-0.39	0.66	45.46	32.6	0
2000	333	21	228.55	10.47	241.01	10.55	191.07	32	10.89	8.65	2.9	0.2	-0.61	0.81	44.51	31	0
2000	333	22	253.42	7.92	276.22	10.72	275.92	24.43	14.64	10.97	4.44	-1.08	-0.81	-0.27	44.58	27.5	0
2000	333	23	250.41	10.37	265.72	13.55	264.83	28.7	13.68	10.47	4.63	-1.26	-0.86	-0.4	43.66	26.62	0
2000	334	0	263.55	6.56	286.69	8.75	284	24.96	23.85	20.88	8.43	-1.41	-0.89	-0.52	42.9	26.95	0
2000	334	1	268.97	7.92	292.12	11.26	290.21	37.61	24.45	20.49	7.88	-1.51	-0.94	-0.57	41.88	27.45	0
2000	334	2	282.02	9.71	306.84	14.1	311.44	44.66	23.53	18.75	6.62	-1.65	-1.04	-0.61	41.26	27.52	0
2000	334	3	280.69	7.47	307.13	11.55	312.27	34.97	23.4	19.19	6.77	-1.72	-1.06	-0.65	40.62	27.19	0
2000	334	4	275.05	10.08	299.75	13.68	295.69	38.56	16.86	13.08	4.99	-1.54	-1.02	-0.52	39.74	26.59	0
2000	334	5	267.78	7.46	294.51	10.75	288.24	32.79	17.63	13.29	5.44	-1.25	-0.86	-0.38	39.05	25.89	0
2000	334	6	264.5	6.2	288.46	10.36	282.04	29.15	16.89	12.52	4.91	-1.02	-0.69	-0.33	39.43	25.85	0
2000	334	7	266.26	4.77	290.9	7.58	291.75	20.76	18.43	13.92	5.83	-0.82	-0.51	-0.31	39.44	26.15	0
2000	334	8	272.89	7.59	296.33	9.37	292.53	20.91	15.95	13.37	6.21	-2.06	-1.03	-1.02	41.26	27.14	0
2000	334	9	276.89	9.34	303.55	12.62	305.19	32.36	14.79	12.51	4.91	-2.49	-1.27	-1.22	42.18	27.96	0
2000	334	10	275.5	8.53	302.42	12.16	301.03	28.97	14.44	12.66	5.77	-2.5	-1.23	-1.27	43.07	28.63	0
2000	334	11	265.14	13.62	290.67	17.99	289.07	31.24	11.76	10.86	5.2	-3.1	-1.3	-1.81	44.82	28.89	0
2000	334	12	253.5	12.81	276.22	19.02	275.09	33.12	9.71	8.72	4.85	-3.1	-1.34	-1.76	45.81	28.12	0
2000	334	13	260.28	10.58	285.54	13.3	291.08	31.8	11.2	10.14	5.03	-2.58	-1.18	-1.4	45.99	24.86	0
2000	334	14	259.05	11.41	282.58	12.68	282.15	32.35	9.56	8.84	4.3	-2.06	-1.08	-0.99	45.59	25.36	0
2000	334	15	272.28	12.64	301.39	16.69	296.91	36.05	6.47	5.91	2.95	-1.98	-1.14	-0.84	45.58	25.92	0
2000	334	16	317.56	21.25	347.75	33.61	32.79	51.19	3.46	3.29	1.77	-1.26	-0.97	-0.29	44.69	25.82	0
2000	334	17	274.58	24.82	305.69	25.87	114.13	48.52	2.58	2.34	1.53	-0.26	-0.69	0.44	43.44	27.73	0
2000	334	18	70.14	29.08	88.86	27.72	84.1	27.25	3.65	3.62	2.13	0.18	-0.43	0.61	42.4	26.03	0
2000	334	19	101.82	19.54	301.07	27.64	336.31	42.52	4.11	3.3	2.12	0.05	-0.14	0.19	42.18	27.64	0
2000	334	20	185.05	35.94	224.03	37.11	135.8	59.63	4.05	3.42	2.16	-0.82	-0.69	-0.14	41.87	28.88	0
2000	334	21	127.95	26.94	131.3	27.53	84.37	57.85	4.97	3.79	1.75	-0.91	-0.68	-0.23	40.15	31.04	0
2000	334	22	120.25	6.06	121.95	9.2	95.91	24.15	6.85	6.09	2.03	-0.52	-0.28	-0.24	39.16	31.86	0
2000	334	23	117.53	5.03	129.81	8.59	117.2	27.44	10.39	8.38	2.75	-0.98	-0.68	-0.3	38.6	32.65	0
2000	335	0	107.1	7.41	124.77	9.9	126.13	33.76	10.29	7.64	2.69	-1.39	-0.82	-0.57	38.1	32.35	0.01
2000	335	1	113.55	22.63	131.27	26.39	188.24	56.93	3.58	2.7	1.54	-1.52	-0.85	-0.67	37.86	32.57	0.02
2000	335	2	80.22	16.2	88.2	19.89	59.45	23.67	4.03	4.02	2.41	-1.64	-0.85	-0.79	37.55	32.31	0
2000	335	3	27.35	9.61	42.37	8.59	33.43	13.45	5.89	5.93	4.08	-1.65	-0.8	-0.85	36.98	31.46	0
2000	335	4	352.92	9.35	17.31	12.38	20.59	17.29	7.2	6.5	4.58	-1.71	-0.93	-0.78	36.83	31.33	0
2000	335	5	345.22	8.94	6.69	13.32	13.57	19.64	8.32	6.98	4.24	-1.9	-1.04	-0.87	37.05	31.29	0
2000	335	6	343.23	6.67	7.63	12.15	12.83	19.27	9.65	8.69	5.1	-1.96	-1.06	-0.9	37.02	31.2	0
2000	335	7	324.15	6.01	346.19	8.58	348.83	26.67	11.22	10.78	5.07	-2.1	-1.13	-0.97	36.62	30.9	0
2000	335	8	324.96	5.88	345.29	7.89	340.69	23.31	13.11	11.91	5.2	-2.05	-1.09	-0.96	36.61	30.66	0
2000	335	9	329.65	8.17	350.79	12.3	352.9	21.88	13.55	12.05	6.01	-2.09	-1.11	-0.98	36.85	30.76	0
2000	335	10	325.83	8.24	346.98	10.25	347.41	23.81	16.09	14.33	6.5	-2.25	-1.07	-1.18	37.97	31.45	0
2000	335	11	318.27	13.82	345.46	14.99	345.71	24.69	12.34	11.52	6.07	-2.56	-1.11	-1.45	38.97	31.59	0
2000	335	12	322.79	20.14	356.15	19.54	358.38	27.65	8.4	7.81	5.35	-2.13	-1.09	-1.05	40.33	31.69	0
2000	335	13	298	17.7	328.47	19.7	323.58	30.62	13.84	12.1	5.68	-2.11	-1.09	-1.02	41.96	30.14	0
2000	335	14	281.97	11.86	305.75	13.4	307.55	28.34	22.19	20.13	8.89	-2.67	-1.24	-1.43	43.13	26.89	0
2000	335	15	286.62	12.25	311.23	12.78	311.71	30.45	25.35	22.53	9.2	-2.28	-1.17	-1.11	42.23	24.45	0
2000	335	16	286.82	10.72	311.5	12.35	313.83	27.95	23.82	21.25	8.54	-1.98	-1.13	-0.84	41.2	22.93	0

2000	335	17	291.67	12.33	316.31	13.63	313.86	28.94	22.03	20.27	7.84	-1.87	-1.12	-0.76	40.6	21.95	0
2000	335	18	291.74	13.65	314.96	15.33	317.12	33.35	17.36	15.43	6.82	-1.87	-1.11	-0.76	39.95	21.29	0
2000	335	19	288.47	13.97	314.87	15.74	315.59	32.3	16.31	14.52	6.14	-1.87	-1.1	-0.77	39.83	20.23	0
2000	335	20	276.37	12.3	299.99	14.82	298.49	28.77	14.59	12.86	5.99	-1.94	-1.12	-0.81	39.19	21.17	0
2000	335	21	268.07	9.43	291.45	11.38	291.82	23.99	17.82	15.63	7.28	-1.94	-1.11	-0.82	38.31	22.85	0
2000	335	22	264.27	7.96	289.56	10.27	290.4	26.02	22.34	19.85	8.63	-1.87	-1.07	-0.8	37.31	22.6	0
2000	335	23	266.75	8.49	291.98	10.19	292.74	23.95	22.24	20.15	8.84	-1.92	-1.09	-0.83	36.78	21.41	0
2000	336	0	270.41	7.91	294.66	9.51	294.82	22.94	21.82	19.84	8.91	-1.88	-1.07	-0.81	36.3	20.48	0
2000	336	1	269.13	7.46	292.96	9.22	293.45	22.55	23.25	20.88	9.32	-1.82	-1.03	-0.78	35.66	19.68	0
2000	336	2	268.44	7.97	290.16	9.41	291.05	20.87	21.66	19.3	8.84	-1.72	-1	-0.72	35.12	19.22	0
2000	336	3	268.93	8.42	290.01	8.98	291.09	21.92	19.74	17.57	7.78	-1.68	-0.97	-0.7	35.16	19.3	0
2000	336	4	266.48	9.18	287.78	9.2	290.11	20.07	16.95	15.33	7.46	-1.81	-1.04	-0.77	35.3	19.33	0
2000	336	5	267.62	9.83	287.56	10.5	287.2	24.82	15.09	13.66	6.11	-1.8	-1.08	-0.72	34.95	19.15	0
2000	336	6	272.26	7.52	295.1	9.76	293.45	23.96	16.87	15.3	6.62	-1.84	-1.1	-0.75	34.37	19.24	0
2000	336	7	269.9	7.32	291.41	9.64	289.94	27.18	16.68	14.79	6.42	-1.9	-1.1	-0.8	33.92	19.52	0
2000	336	8	270.33	9.17	294.15	11.84	293.02	38.62	14.88	12.6	5.27	-2.25	-1.22	-1.03	34.24	20.03	0
2000	336	9	276.15	10.4	300.7	14.67	302.18	32.09	13.98	12.44	5.48	-3.06	-1.37	-1.69	36.19	20.16	0
2000	336	10	264.12	11.5	289.17	15.62	291.36	33.23	12.91	12.1	5.96	-3.33	-1.43	-1.9	37.49	19.25	0
2000	336	11	279.33	13.54	303.66	16.19	303.18	31.3	10.69	9.8	5.04	-2.99	-1.28	-1.71	37.64	18.25	0
2000	336	12	276.38	11.66	299.43	14.87	296.57	29.51	11.83	11.36	5.79	-3.03	-1.25	-1.77	38.33	18.24	0
2000	336	13	275.6	12.3	298.46	15.4	298.21	32.29	14.03	13	5.99	-3.03	-1.35	-1.68	38.87	18.86	0
2000	336	14	289.57	12.87	312.75	14.7	314.53	30.56	15.47	13.93	6.33	-2.81	-1.28	-1.53	38.83	19.33	0
2000	336	15	288.51	16.5	313.07	16.91	313.02	31.61	13.14	12.14	5.46	-2.39	-1.19	-1.2	38.15	18.72	0
2000	336	16	289.31	11.56	310.74	15	313.36	33.15	12.83	11.62	4.77	-2.07	-1.19	-0.87	37.59	18.1	0
2000	336	17	278.63	14.17	296.94	14.55	294.39	27.77	9.16	8.43	4.26	-1.79	-1.12	-0.67	36.57	17.61	0
2000	336	18	304.64	15.87	328.27	17.8	325.92	35.88	12.43	11.21	5.1	-1.8	-1.11	-0.69	35.47	18.2	0
2000	336	19	303.51	11.51	331.48	12.4	333.19	27.09	13.66	12.84	5.63	-1.88	-1.11	-0.77	34.41	16.47	0
2000	336	20	302.36	11.94	329.15	11.06	327.73	27.58	13.36	12.54	5.44	-1.88	-1.11	-0.77	33.24	14.97	0
2000	336	21	310.9	8.19	333.54	8.96	333.03	23.87	13.83	13.05	5.61	-2.02	-1.13	-0.88	32.41	14.78	0
2000	336	22	309.81	9.15	335.01	12.1	332.32	28.25	14.05	13.61	5.76	-2.15	-1.14	-1.01	31.59	14.1	0
2000	336	23	304.28	5.77	326.89	7.34	323.02	30.24	17.63	16.81	6.16	-2.25	-1.18	-1.08	30.75	13.51	0
2000	337	0	316.48	8.14	339.03	8.77	336.9	24.8	16.79	16.08	6.52	-2.14	-1.14	-1	30.21	12.5	0
2000	337	1	314.96	8.95	338.32	10.15	332.02	21.78	16.78	15.92	6.71	-2.06	-1.13	-0.93	29.63	11.32	0
2000	337	2	317.57	14.13	338.35	16.08	342.14	28	11.55	10.44	4.98	-1.92	-1.09	-0.82	28.79	10.63	0
2000	337	3	321.4	11.99	343.28	15.31	347.9	26.87	10.81	9.89	4.74	-1.88	-1.11	-0.77	28.1	10.76	0
2000	337	4	315.37	10.95	339.52	11.68	335.89	32.07	11.31	10.38	4.13	-1.79	-1.08	-0.72	27.7	10.8	0
2000	337	5	321.03	8.65	340.41	9.9	336.77	26	15.26	13.92	5.93	-1.92	-1.12	-0.8	27.39	10	0
2000	337	6	322.3	8.01	340.79	10.62	339.33	25.54	13.77	12.22	5.12	-1.87	-1.09	-0.78	27.02	8.41	0
2000	337	7	327.12	13.38	352.99	13.75	354.02	22.06	12.35	11.99	6.1	-1.88	-1.04	-0.84	26.42	7.87	0
2000	337	8	321.11	11.92	343.5	14.01	339.38	27.04	11.49	10.96	5.47	-2.29	-1.1	-1.19	26.81	7.86	0
2000	337	9	326.48	7.91	350.02	11.67	348.82	21.56	15.05	14.51	7.17	-2.79	-1.21	-1.58	28.1	7.36	0
2000	337	10	331.31	9.81	354.83	12.84	356.86	23.2	12.93	12.14	6.82	-2.86	-1.23	-1.64	29.27	6.7	0
2000	337	11	338.24	8.89	2.36	11.99	7.05	21.99	13.96	12.62	7.73	-3.02	-1.3	-1.72	30.64	6.66	0
2000	337	12	340.08	13.97	2.52	17.61	6.22	23.05	11.62	10.19	6.92	-2.87	-1.32	-1.55	31.54	7.08	0
2000	337	13	346.42	12.86	7.75	16.31	11.36	22.34	12.27	10.49	7.25	-2.89	-1.38	-1.51	32.9	6.92	0
2000	337	14	333.12	12.18	357.09	15.41	3.52	22.95	13.28	11.71	6.97	-2.7	-1.28	-1.41	33.94	6.34	0
2000	337	15	309.09	12.72	333.7	14.19	333.51	26.53	16.75	15.3	6.93	-2.33	-1.14	-1.19	34.13	4.87	0
2000	337	16	302.27	9.66	326.2	11.5	328.15	26.56	14.77	13.98	5.66	-1.86	-1.1	-0.76	33.04	4.85	0
2000	337	17	305.24	12.24	327.2	12.61	327.11	26.74	15.38	14.03	6.03	-1.83	-1.1	-0.72	31.73	5.66	0

2000	337	18	310.31	14.03	335.34	15.63	336.75	25.67	14.19	12.83	6.32	-1.84	-1.09	-0.74	30.6	5.8	0
2000	337	19	322.27	10.72	346.59	13.23	346.85	25.09	14.4	13.4	6.7	-1.89	-1.1	-0.79	29.35	5.95	0
2000	337	20	314.95	7.46	338.77	9.57	336.86	25.94	13.1	12.19	5.04	-1.88	-1.11	-0.76	28.18	6.18	0
2000	337	21	315.73	7.82	338.8	9.39	334.79	23.8	12.35	11.76	5.08	-1.94	-1.12	-0.82	27.19	6.54	0
2000	337	22	317.66	7.34	339.69	9.92	340.77	25.33	12.99	11.95	5.08	-1.92	-1.11	-0.81	26.15	6.56	0
2000	337	23	318.56	7.89	339.3	11.15	340.15	24.94	12.94	12.02	5.26	-1.94	-1.12	-0.82	25.29	7.01	0
2000	338	0	329.98	12.48	354.76	15.48	6.73	25.18	8.75	8.06	3.74	-1.6	-1	-0.6	24.18	7.16	0
2000	338	1	354.23	12.87	45.05	9	66.6	16.08	5.3	6.17	3.15	-0.45	-0.61	0.16	21.8	7.04	0
2000	338	2	349.4	8.2	27.68	8.65	40.97	17.5	7.22	7.11	3.47	-0.96	-0.85	-0.11	21.42	7.87	0
2000	338	3	340.67	7.68	3.02	10.62	6.67	17.53	8.8	8.23	4.99	-1.84	-1.08	-0.76	21.93	9.4	0
2000	338	4	335.73	9.13	348.12	13.03	351.48	20.84	8.67	7.93	3.93	-1.72	-1	-0.72	21.3	9.95	0
2000	338	5	339.22	8.5	357.93	15.58	4.83	21.54	9.76	8.24	4.25	-1.72	-1.02	-0.71	21.2	9.76	0
2000	338	6	339.01	10.4	3.68	15.48	15.83	19.27	9.32	8	4.53	-1.65	-0.99	-0.66	20.87	9.74	0
2000	338	7	332.61	10.76	351.31	15.17	4.55	26.02	8.36	7.15	3.72	-1.78	-1.07	-0.71	21.31	9.84	0
2000	338	8	341.52	7.2	1.59	10.84	359.02	20.37	10.51	10	5.9	-2.31	-1.1	-1.21	21.93	10.42	0
2000	338	9	349.21	14.49	11.46	19.19	14.05	27.88	6.75	6.28	4.53	-2.41	-1.17	-1.24	23.39	10.05	0
2000	338	10	343.42	14.95	5.76	18.75	11.52	26.05	6.5	6.25	4.58	-2.54	-1.15	-1.39	25.62	9.33	0
2000	338	11	335.66	7.17	356.66	11.81	357.19	23.15	9.64	9.11	5.7	-3.02	-1.28	-1.74	28.13	9.33	0
2000	338	12	345.21	6.77	5.6	14	7.45	21.53	13.27	11.76	7.2	-3.11	-1.37	-1.74	30.28	7.92	0
2000	338	13	345.03	6.75	8.29	10.74	11.03	17.79	13.83	12.47	8.21	-2.88	-1.35	-1.53	31.95	7.47	0
2000	338	14	339.33	5.32	358.37	12.11	2.93	20.47	12.32	11.75	6.69	-2.75	-1.24	-1.51	33.45	7.43	0
2000	338	15	335.12	6.6	356.63	11.38	359.39	19.78	9.11	8.57	5.08	-2.22	-1.12	-1.11	33.84	7.35	0
2000	338	16	313.52	7.04	334.31	8.73	330.7	34.55	7.18	6.7	2.38	-1.46	-1.05	-0.41	33.39	8.5	0
2000	338	17	322.17	5.28	343.3	8.65	348.14	25.48	9.1	7.71	2.93	-0.96	-0.81	-0.15	32.72	10.84	0
2000	338	18	323.77	10.1	8.69	29.02	67.7	31.29	6.02	4.93	3.35	-0.22	-0.3	0.08	31.62	10.67	0
2000	338	19	336.28	6.71	16.62	12.19	52.03	25.11	6.22	5.65	3.43	0.38	-0.02	0.39	29.79	13.24	0
2000	338	20	331.31	7.7	10.07	6.24	38.28	20.02	9.91	8.86	4.91	1.66	0.71	0.95	28.78	13.79	0
2000	338	21	327.78	4.36	2.87	8.01	19.57	10.41	11.96	10.48	6.87	2.44	0.59	1.85	27.87	14.01	0
2000	338	22	317.96	8.89	359.95	10.22	11.22	11.78	10.76	10.77	7.18	0.98	0.18	0.8	28.72	14.16	0
2000	338	23	318.09	22.73	3.24	59.94	62.75	37.07	9.29	6.7	4.25	1.61	0.54	1.07	27.66	13.73	0
2000	339	0	321.03	7.53	5.1	12	12.97	12.86	11.12	11.33	7.33	0.55	0.31	0.24	27.42	15.23	0
2000	339	1	330.99	7.7	4.58	12.85	7.37	14.64	13.66	13.56	9.28	-0.88	-0.49	-0.39	27.56	14.22	0
2000	339	2	327.5	9.13	1.82	12.41	6.54	18.11	13.96	13.46	8.81	-0.92	-0.53	-0.39	27.61	11.49	0
2000	339	3	332.23	7.91	357.61	10.72	10.46	25.5	12.16	10.51	5.56	-1.29	-0.86	-0.43	27.27	10.51	0
2000	339	4	344.6	10.59	46.54	25.69	92.24	22.84	7.12	4.97	3.03	-0.34	-0.43	0.1	24.93	12.02	0
2000	339	5	340.62	7.39	6.2	15.49	50.26	34.32	9.27	7.65	3.71	-1.14	-0.9	-0.24	25.14	13.09	0
2000	339	6	337.27	8.17	10.66	26.78	90.4	41.65	10.19	6.44	3.14	-0.64	-0.75	0.11	24.11	13.27	0
2000	339	7	342.3	9.05	20.59	13.88	51.7	19.13	10.52	7.46	4.35	-0.74	-0.52	-0.22	24.12	13.71	0
2000	339	8	335.55	9.4	12.21	11.77	26.04	15.85	13.17	12.21	7.83	-1	-0.25	-0.74	26.04	13.64	0
2000	339	9	341.55	6.87	6.76	10.48	15.51	15.3	16.19	15.75	10	-1.64	-0.65	-0.99	27.56	14	0
2000	339	10	342.18	9.23	8.36	11.34	13.53	15.56	12.5	13.27	8.82	-2.36	-1.03	-1.33	29.61	14.26	0
2000	339	11	343.25	10.44	11.77	12.13	13.65	16.98	10.51	10.73	7.93	-2.69	-1.22	-1.48	32.26	14.89	0
2000	339	12	342.66	10.27	12.92	11.19	14.11	16.23	10.83	10.84	7.94	-2.22	-0.85	-1.37	34.74	15.31	0
2000	339	13	353.37	7.18	15.64	12.13	21.03	15.35	9.58	8.66	6.87	-2.45	-1.16	-1.28	37.03	15.64	0
2000	339	14	349.8	8.46	19.45	13.08	29.65	16.8	7.19	6.55	6.06	-1.99	-1	-0.99	38.37	15.4	0
2000	339	15	3.99	7.73	27.62	11.85	38.04	20.37	6.53	5.8	4.09	-1.62	-0.7	-0.92	38.87	15.25	0
2000	339	16	1.03	8.59	10.7	8.75	14.81	19.34	5.04	5.02	2.93	-0.77	-0.56	-0.2	37.84	15.51	0
2000	339	17	321.86	22.77	315.73	37.78	53.74	51.74	2.29	2.05	2.86	2.02	0.21	1.81	34.72	17.81	0
2000	339	18	337.7	32.65	12.56	16.17	34.99	9.56	1.8	5.13	5.24	4.55	1.96	2.59	32.1	17.72	0

2000	339	19	309.59	38.73	16.78	5.43	33	12.74	1.95	7.39	5.19	4.96	3.26	1.69	30.93	16.51	0
2000	339	20	217.48	30.75	15.42	6.95	32.46	14.18	1.75	5.84	4.22	5.38	3.6	1.79	29.19	16.72	0
2000	339	21	135.69	22.27	11.28	10.13	33.63	13.56	2.14	4.02	2.87	4.09	2.12	1.97	27.85	16.17	0
2000	339	22	232.57	27.23	12.05	11.34	32.2	15.64	2.01	3.64	3.23	4.97	2.06	2.91	26.97	16.09	0
2000	339	23	162.25	14.3	14.51	10.7	21.81	14.09	1.71	3.65	2.83	4.14	1.33	2.8	26.72	15.56	0
2000	340	0	181.16	13.45	114.95	32.41	23.24	17.53	1.51	1.62	2.06	3.64	1.26	2.37	26.5	15.28	0
2000	340	1	164.59	9.88	158.05	46.18	12.71	18.66	2.28	1.55	1.68	3.05	1.99	1.06	26.88	16.25	0
2000	340	2	164.54	11.05	141.11	42.14	8.39	26.95	2.32	1.35	1.5	2.72	2.12	0.6	26.9	16.04	0
2000	340	3	172.25	9.55	182.76	61.6	32.59	25.82	2.94	1.14	1.31	1.92	1.06	0.87	27.23	16.43	0
2000	340	4	169.9	13.69	36.47	24.2	23.78	22.08	3.1	1.38	1.52	1.02	0.36	0.66	27.46	16.77	0
2000	340	5	191.26	21.59	9.81	61.43	33.72	51.23	2.53	1.32	1.35	0.18	-0.04	0.22	28.08	18.27	0
2000	340	6	168.08	13.13	274.31	32.22	4.21	51.64	4.84	2.55	1.4	0.19	0	0.18	28.56	19.34	0
2000	340	7	152.3	5.65	225.02	24.87	232.62	44.23	6.11	3.08	1.48	0.29	0.35	-0.06	29.3	20.26	0
2000	340	8	145.65	9.52	206.14	51.5	256.91	55.1	4.8	2.89	1.87	-1.03	-0.48	-0.55	30.85	19.84	0
2000	340	9	153.33	6.27	182.75	10.76	181.7	14.48	10.07	9.29	6.17	-2.13	-0.91	-1.22	33.76	17.1	0
2000	340	10	146.82	10.34	165.24	9.32	164.57	18.31	6.65	6.3	4.5	-2.37	-1.07	-1.3	35.13	15.56	0
2000	340	11	150.95	9.44	170.73	12.44	173.78	18.44	9.26	7.88	6.05	-2.78	-1.15	-1.63	38.82	16.31	0
2000	340	12	166.04	10.04	180.75	12.66	176.86	17.09	13.04	10.89	7.44	-2.79	-1.08	-1.71	42.7	15.48	0
2000	340	13	202.62	14.51	222.39	17.46	221.19	27.95	17.48	15.93	8.51	-2.68	-1.17	-1.51	45.16	16.56	0
2000	340	14	225.7	11.7	249.77	14.67	252.69	31.15	16.75	14.67	6.94	-2.31	-1.13	-1.18	43.66	17.25	0
2000	340	15	216.58	10.37	238.5	12.85	232.31	35.63	15.75	13.58	5.48	-1.91	-1.05	-0.86	42.83	18.12	0
2000	340	16	202.67	9.06	223.7	11.64	211.3	28.4	16.36	13.86	6.57	-1.41	-0.98	-0.43	41.36	19.44	0
2000	340	17	198.03	8.13	215.9	9.36	199.37	21.21	14.51	12.2	6.28	-1.15	-0.9	-0.25	40.15	19.79	0
2000	340	18	232.41	11.11	251.99	12.8	259.42	28.87	18.5	15.82	6.94	-1.53	-0.97	-0.56	39.53	19.45	0
2000	340	19	252.62	12.25	277.95	13.99	283.71	27.67	19.34	17.02	7.69	-1.68	-1.03	-0.66	37.88	18.67	0
2000	340	20	264.83	11.81	288.08	14.12	292.38	29.46	18.89	16.69	7.53	-1.67	-1.03	-0.64	36.15	14.48	0
2000	340	21	282.07	12.83	308.92	14.1	310.15	28.16	20.24	18.78	8.25	-1.83	-1.09	-0.74	34.14	10.98	0
2000	340	22	280.67	14.15	306.54	16.96	303.36	31.89	16.12	15.07	6.89	-1.81	-1.1	-0.72	32.19	6.7	0
2000	340	23	280.2	16.27	305.82	17.76	305.02	33.12	21.53	19.27	8.43	-1.92	-1.1	-0.82	30.35	7.49	0
2000	341	0	270.88	14.2	294.13	16.51	294.6	32.03	18.54	16.56	7.33	-1.8	-1.06	-0.74	28.93	3.53	0
2000	341	1	272.8	14.02	298.34	16.92	297.95	31.68	16.99	14.67	6.52	-1.8	-1.07	-0.72	27.9	3.15	0
2000	341	2	269.93	16.59	297.73	18.61	295.43	36.9	16.23	14.31	6.5	-1.83	-1.08	-0.76	26.96	3.98	0
2000	341	3	268.58	17.85	291.65	20.5	293.01	39.71	13.46	11.54	5.45	-1.74	-1.04	-0.69	26.03	3.42	0
2000	341	4	275.58	13.8	299.68	15.5	298.13	26.55	16.02	14.3	6.63	-1.84	-1.11	-0.73	25.42	3.94	0
2000	341	5	275.23	12.56	300.97	14.76	302.32	31.33	14.7	12.45	5.57	-1.83	-1.11	-0.72	24.73	4.31	0
2000	341	6	271.13	12.78	294.15	14.92	289.07	29.78	13.9	12.1	5.89	-1.85	-1.11	-0.74	24.22	4.66	0
2000	341	7	271.92	15.4	290.32	17.27	285.05	29.95	12.52	11.28	5.47	-1.88	-1.1	-0.77	23.75	4.52	0
2000	341	8	279.43	14.02	303.94	16.38	305.82	31.9	15.22	13.74	6.04	-2.39	-1.25	-1.14	24.18	5.5	0
2000	341	9	282.67	14.23	305.67	15.85	302.9	30.41	14.89	13.26	6.49	-2.77	-1.33	-1.44	25.1	6.06	0
2000	341	10	284.72	17.74	308.5	18.89	307.58	37.02	13.37	12.27	5.98	-3.12	-1.33	-1.79	26.52	6.42	0
2000	341	11	278.95	16.33	303.36	19.69	301.01	39.29	10.75	9.87	5.16	-3.24	-1.38	-1.86	27.53	5.82	0
2000	341	12	253.67	29.99	278.62	35.67	281.49	47.7	9.59	8.75	5.16	-3.24	-1.37	-1.87	28.65	5.02	0
2000	341	13	252.27	20.04	275.38	24.68	275.71	44.96	7.9	7.15	4.18	-2.94	-1.33	-1.61	29.56	4.64	0
2000	341	14	257.78	16.3	283.6	14.7	284.08	26.66	9.9	9.51	5.41	-2.78	-1.26	-1.52	30.16	3.79	0
2000	341	15	246.18	14.8	269.35	18.38	273.78	29.12	10.22	9.56	5.01	-2.35	-1.15	-1.2	30.47	3.59	0
2000	341	16	213.36	12.45	233.25	12.84	213.28	25.95	6.6	6.09	3.59	-1.72	-1	-0.72	30.01	3.22	0
2000	341	17	205.5	6.9	226.58	10.71	195.38	21.15	9.86	8.35	3.83	-1.26	-0.96	-0.3	29.36	5.27	0
2000	341	18	187.7	3.91	209.35	5.83	192.9	13.9	9.77	8.13	4.41	-1.31	-0.92	-0.39	28.95	6.19	0
2000	341	19	196.88	5.39	216.22	6.37	191.81	16.43	9.56	7.4	3.59	-0.99	-0.79	-0.2	27.99	7.01	0

2000	341	20	197.65	7.09	209.1	7.98	186.37	11.68	10.54	8.45	4.79	-0.94	-0.81	-0.14	27.28	6.7	0
2000	341	21	190.82	7.51	203.3	6.57	185.03	10.96	7.83	6.81	3.69	-1.04	-0.88	-0.16	26.66	7.03	0
2000	341	22	205.58	6.67	220.45	8.12	184.45	12.44	7.8	6.08	3.24	-0.91	-0.79	-0.12	25.89	7.25	0
2000	341	23	208.08	8.3	215.75	7.94	176.11	11.05	7.95	6.73	3.56	-0.67	-0.82	0.15	24.75	7.33	0
2000	342	0	217.28	10.75	214.2	10.18	168.62	13.51	7.85	6.42	2.99	-0.36	-0.66	0.3	24.06	7.31	0
2000	342	1	211.18	13.99	213.78	13.67	154.74	42.28	6.22	5.38	2.22	-0.72	-0.81	0.09	24.73	7.25	0
2000	342	2	176.56	7.09	197.2	7.33	187.07	12.97	10.61	9.48	5.77	-1.66	-0.99	-0.67	25.73	6.88	0
2000	342	3	179.81	6.58	197.93	8.57	188.54	14.33	10.34	8.76	5.43	-1.83	-0.98	-0.85	25.65	7.43	0
2000	342	4	177.94	7.39	199.67	9.08	192.41	16.02	10.01	8.95	5.44	-1.84	-1.01	-0.83	26	7.87	0
2000	342	5	187.17	7.5	204.61	8.89	191.82	16.55	10.97	9.84	5.85	-1.81	-1.01	-0.81	26.17	7.92	0
2000	342	6	210.17	12.75	225.17	12.87	212.9	25.83	9.81	8.48	4.49	-1.79	-1	-0.79	26.75	8.32	0
2000	342	7	225.87	10.19	247.55	11.63	252.86	28.09	13.82	12.69	6.25	-2.04	-1.11	-0.93	27.08	9.97	0
2000	342	8	231.89	12.91	249.7	13.17	257.07	28.44	12.03	11.23	5.67	-2.14	-1.11	-1.03	27.05	10.75	0
2000	342	9	237.78	14.66	260.19	17.89	269.46	33.33	13.27	12.05	5.67	-2.48	-1.21	-1.27	28.31	10.92	0
2000	342	10	256.44	11.34	283.21	14.66	284.94	30.42	16.7	15.44	7.34	-2.75	-1.28	-1.46	29.37	10.91	0
2000	342	11	251.09	10.28	275.11	14.91	278	33.23	18.75	16.01	7.61	-2.96	-1.35	-1.61	30.62	10.61	0
2000	342	12	279.58	16.22	304.99	18.13	309.92	33.54	16.23	14.83	7.05	-2.73	-1.27	-1.46	31.4	9.79	0
2000	342	13	283.22	14.29	311.84	15.62	313.19	28.53	16.9	15.64	6.9	-2.36	-1.19	-1.17	31.65	7.94	0
2000	342	14	262.33	13.11	285	14.8	285.95	28	19.8	17.44	8.1	-2.6	-1.26	-1.33	32.45	6.68	0
2000	342	15	287.12	13.84	312.54	14.57	316.44	30.15	17.08	15.58	6.78	-2.48	-1.22	-1.26	31.91	7.15	0
2000	342	16	293.83	14.97	317.23	16.42	321.63	32.84	14.14	12.86	5.71	-1.98	-1.14	-0.84	30.69	7.12	0
2000	342	17	282.71	18.37	305.89	19.74	304.01	36.65	9.42	8.58	4.3	-1.65	-1.1	-0.54	29.83	6.05	0
2000	342	18	288.64	16.62	314.16	19.09	314.59	40.85	10	8.63	4.16	-1.67	-1.09	-0.58	29.04	5.97	0
2000	342	19	290.44	16.7	311.85	18.06	304.74	33.79	9.37	8	3.72	-1.57	-1.12	-0.45	28.01	6.37	0
2000	342	20	288.23	11.54	310.08	14.79	311.64	35.11	10.07	8.71	3.71	-1.77	-1.24	-0.53	27.26	6.34	0
2000	342	21	284.58	13.33	307.82	16.79	306.68	48.04	9.07	8.25	3.23	-1.88	-1.21	-0.68	26.76	5.96	0
2000	342	22	280	13.1	304.25	17.25	307.15	41.32	6.83	5.96	2.93	-1.75	-1.14	-0.61	26.47	6.06	0
2000	342	23	313.72	31.46	344.76	27.86	4.68	56.33	5.02	4.66	2.36	-1.78	-1.07	-0.72	26.38	5.74	0
2000	343	0	344.08	15.73	14.29	25.19	25.4	38.62	5.89	5.24	3.32	-1.86	-1.04	-0.82	26.28	5.64	0
2000	343	1	42.91	23.75	67.72	30.11	98.38	23.49	3.2	3.64	2.1	-1.69	-0.97	-0.72	25.86	6.41	0
2000	343	2	50.75	27.81	86.1	19.02	93.6	22.48	3.26	3.52	2.33	-1.89	-1.05	-0.84	25.5	6.73	0
2000	343	3	56.04	8.49	77.31	10.52	71.78	23.27	4.03	4.47	2.99	-2.06	-1.08	-0.99	24.74	9.37	0
2000	343	4	69.57	7	80.31	9.25	72.7	24.13	4.49	4.12	2.43	-1.99	-0.98	-1.01	23.17	13	0
2000	343	5	75.79	6.52	85.23	11.24	80.2	23.99	4.98	3.54	2.06	-1.69	-0.76	-0.93	22.89	14.24	0
2000	343	6	55.02	15	53.77	8.52	44.1	15.43	4.29	4.45	3.22	-1.54	-0.54	-0.99	22.98	15.07	0
2000	343	7	21.66	6.79	44.53	7.81	38.92	14.28	5.57	5.63	4.42	-1.92	-0.93	-0.99	23.27	15.39	0
2000	343	8	3.08	10.25	33.25	8.76	36.2	12.91	5.9	6.08	4.78	-1.84	-0.91	-0.93	23.35	15.84	0
2000	343	9	356.96	11.12	25.7	12.47	29.71	13.11	5.55	5.51	4.4	-1.91	-1.01	-0.9	23.68	16.54	0
2000	343	10	356.65	13.84	19.4	15.81	26.79	17.98	7.06	6.28	4.81	-2.03	-1.06	-0.97	24.31	17.24	0
2000	343	11	354.62	11.11	19.7	14.37	24.74	18.62	8.7	7.88	5.75	-2.07	-1.08	-0.99	24.92	17.09	0
2000	343	12	346.6	8.8	8.09	15.16	16.68	21.35	9.2	8.21	4.83	-2.22	-1.12	-1.09	25.44	17.41	0
2000	343	13	346.09	8.74	6.81	16.21	11.08	20.67	8.8	7.66	5.11	-2.2	-1.15	-1.05	25.8	17.16	0
2000	343	14	350.04	14.98	14.8	17.18	20.29	21.49	6.85	6.01	4.14	-2.13	-1.1	-1.03	26.33	16.77	0
2000	343	15	345.19	11.85	5.58	15.93	18.32	20.11	7.8	6.36	4.31	-2.1	-1.11	-0.99	26.71	17.09	0
2000	343	16	1.15	11.55	32.42	10.98	37.77	17.39	6.01	5.81	4.42	-1.9	-1.03	-0.87	26.55	16.53	0
2000	343	17	339.96	10.38	2.48	13.94	5.39	24.03	6.89	6.65	3.9	-1.96	-1.05	-0.91	26.68	17.21	0
2000	343	18	352.97	13.17	20.3	17.42	36.4	18.7	7.61	6.56	4.56	-1.86	-1.02	-0.84	26.49	17.15	0
2000	343	19	335.84	10.46	356.21	13.43	6.39	23.13	8.98	8.09	4.79	-1.99	-1.1	-0.89	26.39	17.29	0
2000	343	20	332.34	6.93	355.08	10.71	5.15	22.6	8.44	7.96	4.76	-2.01	-1.08	-0.93	26.28	17.12	0

2000	343	21	344.95	13.09	12.65	17.55	26.71	24.99	7.09	6.39	4.01	-1.8	-1	-0.8	25.98	16.71	0
2000	343	22	5.73	14.56	46.79	11.2	64.37	21.12	4.63	5.38	2.97	-1.18	-0.86	-0.32	24.87	15.9	0
2000	343	23	338.77	11.88	10.64	14.21	24.49	24.45	4.96	5.26	3.68	-1.8	-1.05	-0.76	25.34	16.8	0
2000	344	0	339.16	27.63	41.41	18.55	83.22	22.11	2.41	3.18	2.23	-0.97	-0.78	-0.2	24.65	16.08	0
2000	344	1	229.36	29.31	233.71	46.01	102.81	17.92	1.91	1.58	2.26	-0.5	-0.88	0.37	24.56	16.14	0
2000	344	2	307.29	22.99	342.21	19.26	352.08	41.63	6.78	6.4	3.28	-1.36	-0.85	-0.51	25.6	16.47	0
2000	344	3	270.49	9.06	281.9	13.79	271.26	25.36	14.34	10.42	4.64	-0.48	-0.2	-0.28	27.91	16.66	0
2000	344	4	272.4	12.63	293.75	15.12	287.61	29.1	12.58	10.55	5.01	-1.48	-1.05	-0.43	29.15	15.2	0
2000	344	5	276.24	24.61	293.49	25.79	288.95	46.31	8.11	7.21	3.68	-1.42	-0.95	-0.48	28.46	14.03	0
2000	344	6	289.34	10.47	316.38	11.43	323.66	27.35	12.11	10.39	4	-1.39	-1.1	-0.29	27.79	14.6	0
2000	344	7	283.49	11.36	308.03	18.49	68.83	57.87	11.2	8.58	2.79	1.98	-0.77	2.75	23.89	14.52	0
2000	344	8	300.95	20.57	358.31	31.92	60.21	27.38	7.91	5.36	3.46	0.6	-0.13	0.73	24.62	15.64	0
2000	344	9	321.78	13.06	349.38	16.25	354.59	23.74	15.64	14.11	7.16	-2.04	-1.01	-1.03	27.74	14.76	0
2000	344	10	331.07	11.65	0.9	14.98	2.68	21.93	14.98	13.11	7.72	-2.47	-1.14	-1.33	28	14.71	0
2000	344	11	329.02	12.31	356.84	13.7	4.92	21.27	12.19	11.36	7.41	-2.58	-1.16	-1.42	28.5	13.36	0
2000	344	12	332.72	11.48	354.52	15	0.68	25.51	10.45	9.65	6.07	-2.66	-1.21	-1.45	29.5	12.14	0
2000	344	13	5.81	14.04	33.29	15.25	35.78	17.56	8.62	8.17	6.37	-2.36	-1.13	-1.23	30.16	11.92	0
2000	344	14	17.99	12.98	45.04	10.82	40.87	19.59	7.59	7.56	5.89	-2.3	-1.12	-1.17	30.63	11.16	0
2000	344	15	2.37	16.59	27.63	18.17	21.33	23.51	5.58	5.14	3.83	-2.03	-1.09	-0.94	31.11	10.69	0
2000	344	16	18.27	11.39	47.55	11.49	64.17	21.39	5.36	4.87	2.67	-1.51	-0.99	-0.51	30.44	9.94	0
2000	344	17	17.42	10.39	51.4	8.62	69.7	26.91	4.3	4.43	2.47	-1.16	-0.97	-0.19	29.6	9.76	0
2000	344	18	18.47	10.28	32.98	5.6	41.93	12.13	4	4.21	3.1	-0.13	-0.82	0.69	28	13.24	0
2000	344	19	34.13	5.36	22.65	7.54	24.72	11.37	4.75	5.48	4.16	0.42	0.05	0.37	26.92	13.19	0
2000	344	20	15.51	5.4	24.27	4.52	32.37	9.32	8.03	8.06	5.79	0.77	0.23	0.55	25.5	13.19	0
2000	344	21	14.11	5.53	23.83	4.84	37.47	10.62	9.11	8.02	5.25	0.69	-0.1	0.8	24.51	12.71	0
2000	344	22	16.77	6.29	19.7	5.85	29.34	13.42	6.61	5.56	3.45	0.41	-0.35	0.76	23.96	12.54	0
2000	344	23	13.33	10.94	10.78	8.72	13.72	16.25	5.15	4.71	3.35	0.08	-0.2	0.28	23.38	12.97	0
2000	345	0	35.79	49.31	16.04	11.23	45.19	16.78	2.5	3.49	3.1	0.78	-0.47	1.25	22.39	10.76	0
2000	345	1	86.38	12.64	29.71	9.13	33.75	8.53	3.18	3.97	3.87	1.76	-0.17	1.93	21.51	10.89	0
2000	345	2	84.29	16.03	29.57	9.57	31.42	10.2	4.61	4.68	4	2.25	0.57	1.67	20.78	10.82	0
2000	345	3	81.79	10.42	30.3	8.31	28.3	11.31	5.75	5.42	4.25	2.58	0.82	1.76	20.22	10.42	0
2000	345	4	69.67	19.4	37.2	8.86	41.88	12.13	4.67	6.42	4.76	2.58	0.3	2.28	19.96	10.26	0
2000	345	5	33.74	15.31	32.51	7.64	37.82	9.31	4.37	7.16	5.39	2.69	0.37	2.32	19.63	10.21	0
2000	345	6	48.69	15.14	29.61	6.6	44.25	10.44	4.15	4.86	4.26	2.38	-0.43	2.81	19.3	9.41	0
2000	345	7	46.68	35.78	32.6	6.6	37.4	10.53	2.49	5.08	3.38	2.25	-0.06	2.31	19.22	8.59	0
2000	345	8	20.33	44.44	31.87	7.16	41.34	10.25	2.02	4.03	3.59	0.89	-0.06	0.95	20.7	8.33	0
2000	345	9	29.46	19.28	14.33	14.06	28.77	15.61	3.53	4.08	3.89	-1.16	-0.49	-0.67	23.58	10.26	0
2000	345	10	350.62	21.86	11.93	19.35	25.69	23.21	2.6	2.77	2.56	-1.75	-0.84	-0.91	26.4	12.93	0
2000	345	11	0.06	14.63	355.08	17.18	355.16	21.52	3.37	3.37	2.92	-1.95	-0.94	-1.01	28.63	13.88	0
2000	345	12	11.2	22.88	340.26	18.9	340.82	27.23	2.64	2.88	2.57	-1.83	-0.8	-1.03	30.85	15.11	0
2000	345	13	358.65	15.96	349.32	14.18	340.53	22.8	3.19	3.72	2.95	-1.67	-0.69	-0.98	33.08	17.19	0
2000	345	14	343.18	15.1	349.47	14.1	354.96	28.37	3.49	3.4	2.31	-1.87	-0.96	-0.91	34.66	18.88	0
2000	345	15	343.24	16.34	16.87	12.65	22.96	18.81	3.27	3.12	2.14	-1.77	-1.01	-0.76	35.37	19.64	0
2000	345	16	352.48	11.57	14.72	12.15	23.02	17.11	3.44	3.43	2.16	-1.5	-0.86	-0.64	35.28	19.88	0
2000	345	17	358.85	10.74	13.34	11.94	30.08	15.61	4.08	3.43	2.08	-1.03	-0.64	-0.38	35.27	20.23	0
2000	345	18	0.51	9.63	27.32	6.18	35.6	13.68	5.58	6.42	4.15	-0.9	-0.69	-0.21	35.5	21.41	0
2000	345	19	1.55	10.17	22.8	6.95	37.99	12.61	5.14	5.76	4.08	-0.68	-0.56	-0.13	34.68	22.85	0
2000	345	20	355.63	7.06	21.76	5.8	43.87	12.85	5.69	6.54	4.27	-0.12	-0.46	0.35	33.9	25.48	0
2000	345	21	345.1	9.23	8.93	43.07	64.25	42.62	4.33	3.32	2.71	0.12	-0.2	0.32	33.28	26.96	0

2000	345	22	351.13	11.85	16.28	15.31	74.2	30.46	2.98	2.99	1.69	0.58	0.17	0.42	33.27	27.92	0
2000	345	23	347.17	9.74	323.53	48.73	72.03	39.68	3.98	1.94	1.65	1.02	1.16	-0.14	34.05	28.67	0
2000	346	0	330.83	20.86	272.14	53.42	76.41	51.46	3.01	1.73	1.63	0.45	0.53	-0.09	34.01	28.65	0
2000	346	1	345.41	14.19	12.39	33.56	60.59	46.12	3.4	2.85	2.19	-0.15	0.07	-0.22	34.45	28.87	0
2000	346	2	342.44	15.88	8.74	22.91	40.71	17.63	3.67	3.68	2.85	-0.38	-0.32	-0.06	34.41	28.33	0
2000	346	3	349.47	8.09	21.35	8.86	39.99	14.66	9.36	8.29	5.88	-0.16	0.01	-0.17	33.73	27.12	0
2000	346	4	338.89	17.07	19.67	11.46	35.88	19.46	5.2	6.19	4.28	0.1	-0.26	0.36	32.77	26.32	0
2000	346	5	346.83	20.29	7.59	11.89	25.99	21.92	4.38	4	2.77	1.39	1.19	0.2	31.94	26.12	0
2000	346	6	8.55	5.79	28.3	15.21	76.19	45.02	6.47	5.16	2.07	3.57	3.03	0.54	30.42	25.21	0
2000	346	7	347.04	20.74	27.28	50.43	114.15	42.91	4.69	3.26	1.85	2.15	1.57	0.58	30.28	25.22	0
2000	346	8	292.47	20.19	141.69	50.15	118.87	28.26	2.45	1.69	1.91	-0.39	-0.21	-0.18	30.89	26.2	0
2000	346	9	347.95	12.17	38.12	18.13	77.95	38.22	4.84	4.52	2.94	-1.11	-0.47	-0.63	32.01	27.62	0
2000	346	10	353.89	15.48	12.93	17.54	14.94	23.73	5.19	4.9	3.85	-1.79	-0.76	-1.02	33.49	28.52	0
2000	346	11	353.15	13.48	28.31	15.05	34.61	15.34	6.03	5.99	5.2	-2.18	-0.93	-1.24	34.38	28.56	0
2000	346	12	9.94	10.92	57.23	12.97	57.73	24.17	5.13	5.42	4.13	-2.45	-1.12	-1.33	36.76	29.18	0
2000	346	13	23.43	20.86	65.15	21.41	63.47	37.68	3.37	3.36	3	-2.7	-1.65	-1.05	38.37	29.79	0
2000	346	14	116.16	25.91	148.42	23.81	149.25	38.02	2.65	3.22	2.93	-2.6	-1.52	-1.08	38.76	30.04	0
2000	346	15	130.91	27.99	180.25	18.24	191.33	20.1	2.2	2.63	2.5	-2.22	-1.12	-1.1	38.41	30.14	0
2000	346	16	117.3	19.48	145.24	15.76	123.84	20.48	3.15	4	1.98	-1.23	-0.83	-0.4	37.07	29.85	0
2000	346	17	21.06	11.77	52.16	7.78	42.42	12.06	3.01	4.58	2.92	-0.53	-0.45	-0.08	35.97	29.18	0
2000	346	18	2.9	10.62	35.9	5.9	42.82	9.83	4.33	5.79	4.23	-0.86	-0.38	-0.48	35.06	28.99	0
2000	346	19	58.63	16.77	60.36	13.01	78.32	25.64	3	4.15	2.37	-0.4	-0.25	-0.14	34.08	28.68	0
2000	346	20	123.62	34.7	173.23	20.18	111.94	31.96	1.65	2.76	1.46	-0.28	-0.42	0.15	34.26	29.06	0
2000	346	21	118.72	14.97	102.41	53.73	98.93	58.6	3.76	1.94	1.51	-0.75	-0.53	-0.22	34.97	29.78	0
2000	346	22	136.46	7.55	184.75	14.21	210.85	22.67	5.91	4.91	2.41	-0.24	-0.15	-0.09	35.6	30.34	0
2000	346	23	142.17	6.77	190.54	10.36	197.41	20.16	6.77	5.33	2.56	0.36	0.17	0.19	35.87	30.99	0
2000	347	0	141.93	15.29	189.87	29.25	303.45	45.28	5.39	2.56	1.62	0.25	0.09	0.16	37.3	32.58	0
2000	347	1	147.21	9.2	191.39	9.94	163.78	18.34	9.23	5.81	2.36	1.53	0.63	0.9	38.27	33.63	0
2000	347	2	148.5	5.65	168.9	8.88	169.63	16.22	22.89	19.18	10.31	-0.37	-0.27	-0.1	44.97	40.69	0
2000	347	3	155.84	6.43	176.62	8.78	173.59	14.73	24.53	19.62	10.2	-0.85	-0.51	-0.34	46.6	42.08	0
2000	347	4	169.08	7.13	190.58	9.06	183.72	14.27	25.87	20.9	12.12	-1.17	-0.81	-0.36	47.12	41.78	0
2000	347	5	178.58	6.47	200.8	8.18	189.8	14.4	25.37	20.85	12.14	-1.13	-0.84	-0.29	47.59	41.15	0
2000	347	6	184.1	7.55	205.55	10.02	193.27	17.35	27.46	22.32	12.96	-1.29	-0.92	-0.37	48.63	41.32	0
2000	347	7	194.17	9.16	213.31	10.59	200.16	22.21	25.46	21.01	11.41	-0.85	-0.73	-0.12	49.7	40.15	0
2000	347	8	215.49	9.78	238.5	11.7	235.6	30.86	38.88	34.3	15.26	-1.37	-0.95	-0.42	50.56	34.37	0
2000	347	9	233.11	10.23	255.21	12.87	262.65	26.34	41.49	36.43	16.28	-1.64	-1.39	-0.25	44.75	22.44	0
2000	347	10	233.98	12.02	255.35	13.9	262.67	28.98	35.68	31.07	14.36	-1.92	-1.27	-0.65	40.51	18.71	0
2000	347	11	246.13	14.53	267.85	17.61	270.06	33.21	33.08	29.17	13.25	-2.21	-1.36	-0.85	39.65	18.56	0
2000	347	12	266.92	12.58	291.73	13.47	295.32	29.22	35.52	32.48	14.26	-2.51	-1.32	-1.19	37.97	13.97	0
2000	347	13	281.43	14.68	308.15	16.81	310.16	36.29	30.95	27.75	12.07	-2.69	-1.23	-1.47	37.27	13.66	0
2000	347	14	285.42	14.04	312.53	15.07	316.46	30.8	30.11	26.89	11.86	-2.57	-1.23	-1.34	36.62	13.56	0
2000	347	15	288.41	14.6	313.14	17.25	315.79	28.68	28.95	26.33	11.4	-2.41	-1.19	-1.23	35.06	12.87	0
2000	347	16	283.9	12.57	309.46	14.89	310.08	31.39	30.2	26.12	10.52	-2.07	-1.15	-0.92	33.09	11.7	0
2000	347	17	278.83	14.65	305.08	16.73	309.55	32.17	28.01	24.18	10.39	-2.04	-1.14	-0.9	31.61	10.57	0
2000	347	18	288.18	13.68	312.58	14.42	313.4	27.51	23.51	20.89	9.43	-2.05	-1.17	-0.89	30.12	9.17	0
2000	347	19	281.44	9.13	306.49	11.4	305.93	26.17	33.52	30.15	12.98	-2.25	-1.16	-1.09	28.94	7.53	0
2000	347	20	287.55	11.46	314.26	13.45	315.01	37.13	30.14	26.61	10.17	-2.12	-1.14	-0.98	27.27	5.86	0
2000	347	21	289.52	14.03	315.56	16.76	323.08	38.63	21.47	18.37	7.47	-2.11	-1.21	-0.91	26.03	5.97	0
2000	347	22	293.72	19.23	320.71	21.95	325.4	39.29	14.98	13.11	5.94	-2.03	-1.18	-0.85	24.92	5.21	0

2000	347	23	286.69	21.95	307.92	24.23	309.78	46.38	12.87	12.26	6.34	-1.88	-1.09	-0.78	23.79	4.7	0
2000	348	0	294.62	17.68	320.43	18.46	325.36	34.21	13.97	12.72	6.4	-1.98	-1.14	-0.84	22.95	4.6	0
2000	348	1	296.63	20.73	319.94	22.19	325.19	41.97	10.46	9.19	4.6	-1.88	-1.12	-0.76	22.43	4.65	0
2000	348	2	289.37	12.36	312.81	14.85	320.06	36.7	14.9	12.97	5.41	-2.07	-1.24	-0.83	22.14	6.1	0
2000	348	3	299.28	15.65	323.72	15.96	323.34	30.41	11.34	10.16	4.85	-1.9	-1.15	-0.74	21.66	5.37	0
2000	348	4	303.66	18.46	326.57	20.47	344.51	54.15	8.24	7.1	3.48	-1.76	-1.09	-0.67	21.11	5.56	0
2000	348	5	320.29	14.44	340.59	14.62	347.38	27.68	8.22	7.54	3.79	-1.81	-1.09	-0.72	20.75	5.68	0
2000	348	6	324.04	9.24	345.78	11.52	348.45	22.38	8.93	8.37	4.39	-1.91	-1.1	-0.82	20.01	5.94	0
2000	348	7	326.62	7.97	348.12	13.26	357.26	25.78	7.56	6.95	3.57	-1.95	-1.09	-0.86	19.17	7.16	0
2000	348	8	331.85	10.62	354.04	14.15	357.35	24.85	8.26	8.04	4.66	-2.38	-1.14	-1.24	19.16	7.61	0
2000	348	9	346.56	11.13	10.41	13.59	14.14	21.5	7.93	7.46	5.65	-2.46	-1.18	-1.28	20.23	7.56	0
2000	348	10	346.87	11.98	9.51	16.43	15.3	21.35	6.9	6.73	5.33	-2.5	-1.16	-1.34	22.14	7.51	0
2000	348	11	331.87	13.23	354.32	18.35	0.1	26.08	7.84	7.09	5.12	-2.88	-1.3	-1.57	24.56	5.88	0
2000	348	12	353.68	13.13	14.57	16.61	16.36	23.06	8.65	8.04	6.13	-2.77	-1.31	-1.47	26.16	2.85	0
2000	348	13	343.87	10.08	2.96	15.28	7.31	22.24	7.79	7.14	5.15	-2.64	-1.23	-1.41	27.1	2.71	0
2000	348	14	348.73	12.02	8.8	17.08	7.43	27.17	6.8	6.15	4.21	-2.37	-1.17	-1.2	28.09	2.2	0
2000	348	15	349.25	15.95	5.42	19.28	359.57	25.51	5.18	4.63	3.19	-2.15	-1.09	-1.06	28.63	1.96	0
2000	348	16	350.54	15.31	16.02	21.17	20.43	26.76	5.51	5.04	3.32	-2.01	-1.07	-0.95	28.92	2.35	0
2000	348	17	7.76	17.6	41.54	20.82	44.58	34.53	3.51	3.27	2.16	-1.94	-1.04	-0.9	29	4.26	0
2000	348	18	51.16	10.77	68.55	21.68	24.45	53.74	2.8	2.27	1.24	-1.76	-0.99	-0.77	28.9	4.63	0
2000	348	19	14.83	17.98	42.46	12.32	46.43	14.6	4.13	4.63	3.24	-1.8	-1.01	-0.79	29.17	5.44	0
2000	348	20	45.79	9.58	64.14	12.17	58.8	21.5	6.83	5.79	3.61	-1.8	-0.98	-0.83	28.83	4.9	0
2000	348	21	106.83	6.91	132.69	10.99	138.55	33.52	10.14	7.13	2.65	-1.33	-0.8	-0.52	28.37	4.78	0
2000	348	22	119.03	5.27	139.86	9.02	119.16	23.4	7.94	5.93	2.02	-1	-0.75	-0.26	28.04	4.2	0
2000	348	23	120.55	7.98	136.82	11.81	136.29	49.46	7.54	5.6	2.12	-1.07	-0.67	-0.4	27.95	5.68	0
2000	349	0	109.84	8.82	128.74	13.88	123.98	29.12	5.68	3.96	1.94	-1.63	-0.89	-0.74	28.51	7.17	0
2000	349	1	63.54	12.62	66.68	17.96	15.89	30.92	6.84	4.27	2.41	-1.56	-0.82	-0.74	28.18	11.31	0
2000	349	2	22.54	11.67	26.49	13.01	13.99	22.67	7.22	6.05	4.09	-1.74	-0.93	-0.81	27.96	16.8	0.02
2000	349	3	8.47	14.24	15.06	14.67	3.62	18.7	7.68	6.61	4.43	-1.59	-0.85	-0.74	28.01	20.61	0.11
2000	349	4	27.48	15.65	17.7	14.52	359.73	20.72	7.83	6.48	4.07	-1.26	-0.45	-0.8	29.48	23.38	0.03
2000	349	5	348.12	15.4	2.44	11.47	357.44	18.14	1.25	5.88	5.68	-1.68	-0.85	-0.83	31.9	26.1	0.14
2000	349	6	347.5	9.2	6.97	11.38	12.22	18.78	0.5	0.5	6.14	-1.81	-1.07	-0.74	33.72	27.37	0.23
2000	349	7	8.27	12	21.85	17.37	14.94	24.01	0.5	0.5	4.98	-1.38	-0.84	-0.54	33.74	27.93	0.17
2000	349	8	355.45	15.31	3.12	12.47	357.88	16.91	0.5	2.25	4.44	-1.38	-0.81	-0.57	34.57	28.99	0
2000	349	9	335.92	38.75	20.3	50.29	48.78	62.21	0.5	4.37	3.1	-0.81	-0.48	-0.32	35.46	30.08	0
2000	349	10	332.93	9.93	13.15	11.96	39.98	19.84	4.33	5.75	4.17	-0.72	-0.41	-0.32	35.91	30.65	0
2000	349	11	326.08	16.65	13.64	14.78	33.23	17.5	3.59	4.05	3.79	-1.62	-0.76	-0.86	36.58	30.59	0
2000	349	12	174.84	43.72	90.65	25.94	76.44	34.9	2.73	3.46	3.35	-1.64	-0.72	-0.92	37.24	30.49	0
2000	349	13	216.84	62.07	56.83	13.55	49.26	16.7	2.76	4.51	4.65	-0.19	0.65	-0.84	37.37	30.57	0
2000	349	14	196.64	26.54	47.48	17.46	44.7	17.99	4.5	4.17	4.56	2.1	2.1	0.01	38.34	31.29	0
2000	349	15	203.55	37.66	134.93	60.47	84.68	34.11	3.46	3.31	3.11	2.74	0.21	2.53	39.64	31.86	0
2000	349	16	196.78	12.42	205.39	14.56	209.06	41.98	7.87	6.31	2.48	2.21	-0.41	2.63	40.47	32.12	0
2000	349	17	222.23	15.54	239.5	17.41	253.96	43.85	10.37	8.82	3.78	-0.03	-0.72	0.69	41.83	31.83	0
2000	349	18	237.68	13.08	255.09	14.33	256.89	26.14	14.16	11.42	5.36	-0.82	-0.61	-0.21	41.78	30.87	0
2000	349	19	268.75	12.7	294.09	16.18	294.06	28.39	17.66	14.82	6.4	-1.54	-1.04	-0.5	42.27	29.93	0
2000	349	20	281.89	15.42	307.75	16.64	311.5	31.18	21.28	18.74	8.19	-1.65	-1.07	-0.58	40.96	26.25	0
2000	349	21	287.19	16.5	311.7	17.14	318.08	36.96	17.83	14.97	6.73	-1.65	-1.07	-0.58	39.38	23.41	0
2000	349	22	298.21	19.07	326.06	21.11	328.76	35.73	17.63	15.82	6.89	-1.69	-1.07	-0.62	38.61	22.48	0
2000	349	23	296.48	15.3	321.34	17.27	324.93	37.81	15.94	13.84	5.73	-1.68	-1.08	-0.6	37.79	21.93	0

2000	350	0	303.57	13.9	328.35	14.63	331.7	29.93	16.26	14.9	6.91	-1.72	-1.07	-0.64	37.06	21.16	0
2000	350	1	291.2	13.61	318.41	16.75	325.27	36.2	16.23	14.65	6.03	-1.8	-1.14	-0.66	36.22	19.86	0
2000	350	2	283.5	15.63	305.2	17.59	309.33	30.3	12.48	11.05	4.93	-1.83	-1.18	-0.65	35.36	19.6	0
2000	350	3	295.74	16.69	316.61	18.79	324.19	37.19	11.72	10.33	4.87	-1.7	-1.12	-0.58	34.51	19.31	0
2000	350	4	301.73	15.14	321.81	17.52	330.63	39.57	13.93	11.7	4.85	-1.86	-1.18	-0.68	34.19	18.92	0
2000	350	5	355.61	11.01	22.1	12.59	23.5	18.36	14.28	12.71	7.88	-1.93	-1.05	-0.88	32.24	18.76	0
2000	350	6	343.23	6.31	4.28	13.3	13.47	16.93	13.8	12.67	7.54	-2	-1.12	-0.87	30.03	17.17	0
2000	350	7	338.47	8.58	2.64	12.18	3.49	19	13.16	11.76	6.9	-2	-1.14	-0.86	29.09	16.51	0
2000	350	8	338.7	6.45	3.92	13.7	8.83	22.13	15.64	13.5	7.25	-2.2	-1.12	-1.08	28.82	16.09	0
2000	350	9	343.06	8.04	7.44	12.39	8.33	19.49	12.08	11.19	7.11	-2.52	-1.21	-1.3	29.89	15.74	0
2000	350	10	346.86	7.1	7.24	11.6	6.69	19.2	12.43	11.08	7.21	-2.73	-1.27	-1.46	30.88	15.5	0
2000	350	11	342.58	7.22	3.68	12.19	5.87	19.39	12.87	11.6	7.21	-2.95	-1.29	-1.66	31.86	14.9	0
2000	350	12	335.3	8.36	355.1	12.36	353.8	21.9	10.86	10.27	6.16	-2.96	-1.29	-1.67	32.7	15.2	0
2000	350	13	327.21	8.84	344.66	10.24	342.13	23.86	9.34	9.34	4.83	-2.86	-1.19	-1.66	33.86	15.49	0
2000	350	14	323.94	7.45	340.68	7.56	344.22	22.19	9.02	9.29	4.61	-2.52	-1.15	-1.37	34.44	16.18	0
2000	350	15	334.56	9.08	346.59	8.94	343.19	24.28	8.39	8.6	4.13	-2.13	-1.12	-1.01	34.4	17	0
2000	350	16	338.24	7.7	354.09	14.55	5.27	28.87	7.32	6.26	3.06	-1.83	-1.09	-0.74	34.15	17.23	0
2000	350	17	355.03	10.72	26.43	12.8	35.98	16.38	6.44	6.05	3.77	-1.48	-0.96	-0.52	33.59	17.11	0
2000	350	18	28.56	6.88	43.57	6.93	80.58	14.53	4.47	4.44	2.82	-0.86	-0.77	-0.09	32.84	16.57	0
2000	350	19	81.82	16.06	54.31	17.45	51.98	12	3.49	2.8	2.45	-0.89	-0.69	-0.2	32.71	16.55	0
2000	350	20	99.42	14.74	91.11	16.95	51.95	17.37	7.35	5.26	3.17	-0.32	-0.54	0.22	32	18.33	0
2000	350	21	125.52	2.52	148.11	2.93	138.23	20.77	7.93	6.86	2	-0.51	-0.79	0.28	31.95	18.37	0
2000	350	22	125.46	3.01	124.38	7.15	81.06	19.19	5.83	5.75	2.45	-0.44	-0.59	0.15	32.1	18.91	0
2000	350	23	89.11	11.15	70.35	9.41	47.67	20.07	4.6	5.79	3.7	-0.65	-0.41	-0.24	32.22	19.62	0
2000	351	0	4.09	8.35	25.22	8.72	33.74	16.73	7.74	7.22	5.1	-1.5	-0.9	-0.6	32.42	20.28	0
2000	351	1	73.81	34.49	78.92	51.43	73.39	61.06	2.28	1.71	1.28	-1.38	-0.93	-0.45	32.73	20.06	0
2000	351	2	25.25	27.8	48.48	18.17	53.75	16.04	3.02	3.53	2.71	-1.36	-0.88	-0.48	32.7	20.71	0
2000	351	3	356.5	29.18	8.64	22.11	4.06	46.59	3.42	3.12	2	-1.58	-0.9	-0.68	33.22	21.9	0
2000	351	4	35.25	18.22	37.78	15.25	30.41	21.4	3.46	3.38	2.42	-1.65	-0.99	-0.66	33.4	22.51	0
2000	351	5	37.62	29.46	14.34	26.56	10.66	26.64	3.47	3.05	2.23	-1.58	-0.92	-0.66	33.5	23.16	0
2000	351	6	24.69	28.67	15.94	16.95	10.53	19.02	4.97	4.16	2.84	-1.32	-0.74	-0.58	33.93	24.14	0
2000	351	7	61.51	53.39	291.04	49.43	305.26	37.53	3.82	2.89	2.31	-1.44	-0.84	-0.6	34.47	25.11	0
2000	351	8	14.22	14.4	19.53	11.46	16.8	15.13	6.42	5.94	4.4	-1.56	-0.85	-0.71	35.17	26.21	0
2000	351	9	32.2	20.18	16.49	22.13	349.29	19.25	5.09	4.35	3.2	-1.62	-0.88	-0.74	35.47	26.31	0
2000	351	10	19.57	19.89	3.01	13.91	351.01	19.07	4.17	4.3	3.14	-1.61	-0.69	-0.92	36.49	27.13	0
2000	351	11	28.4	14.9	5.51	13.95	355.12	16.79	5.27	4.84	3.5	-1.17	-0.4	-0.77	37.49	28.26	0
2000	351	12	60.76	20.88	10.54	25.2	338.75	23.25	4.8	3.67	2.23	-0.49	-0.26	-0.23	37.99	30.48	0
2000	351	13	86.47	11.57	88.93	20.68	16.94	37.99	8.19	4.66	2.08	-0.61	-0.46	-0.15	39.28	32.59	0
2000	351	14	76.74	11.25	91.41	21.29	11.63	34	8.83	4.8	2.16	-0.85	-0.54	-0.31	39.78	34.39	0
2000	351	15	77.5	29.41	105.89	43.28	125.71	83.54	7.96	4.35	2.33	-0.67	-0.64	-0.03	40.77	35.24	0
2000	351	16	36.59	41.98	24.98	43.75	351.97	42.73	4.45	3.27	2.13	-0.78	-0.63	-0.15	41.4	36.03	0.02
2000	351	17	65.95	22.09	37.62	39.15	10.38	26.26	6.96	4.05	2.86	0.27	-0.29	0.57	40.97	35.9	0.01
2000	351	18	84.61	22.73	33.96	61.6	342.07	41.65	6.96	3.49	2.79	0.95	-0.12	1.07	42.27	37.21	0
2000	351	19	38.5	19.97	18.72	20.7	357.96	26.94	6.4	5.11	3.42	0.45	-0.11	0.56	44.09	39.41	0
2000	351	20	44.05	27.83	351.64	17.86	346.84	16.42	4.81	4.48	2.94	0.42	0.09	0.33	45.43	40.83	0.08
2000	351	21	36.95	20.31	3.05	12.49	25.73	16.36	5.21	5.21	3.65	1.59	-0.13	1.72	45.6	41.17	0.03
2000	351	22	35.92	12.23	8.03	7.57	17.54	11.54	7.08	7.68	4.93	2.43	0.57	1.86	45.73	41.25	0
2000	351	23	33.88	17.02	12.04	6.29	10.91	11.84	6.06	7.22	4.35	1.07	0.44	0.63	47.74	43.35	0
2000	352	0	35.91	16.22	16.45	7.68	13.65	15.41	4.78	6.76	4.16	0.91	0.25	0.66	48.6	44.17	0

2000	352	1	63.19	11.06	21.47	6.82	17.98	10.34	3.99	5.27	3.39	1.16	0.31	0.85	48.9	44.47	0
2000	352	2	78.98	15.54	33.73	18.4	17.8	10.42	4.89	5.33	3.94	1.59	0.55	1.05	49.1	44.74	0.03
2000	352	3	124.46	10.6	149.73	66.15	1.83	44.31	6.84	2.79	2.26	2.64	0.4	2.24	48.92	44.49	0
2000	352	4	134.72	6.65	175.43	20.35	262.12	43.11	10.08	4.23	1.71	1.95	0.92	1.03	50.29	45.77	0
2000	352	5	140.73	6.27	165.98	11.32	182.93	25.57	16.14	11.63	5.83	2.02	1.07	0.94	53.65	49.16	0.02
2000	352	6	145.22	4.64	164.88	7.82	165.31	15.44	25.29	21.1	11.68	0.6	0.58	0.02	57.48	53.63	0.1
2000	352	7	151.98	5.86	173.68	8.64	171.97	14.31	40.19	33.35	18.29	0.5	0.57	-0.08	60.03	55.83	0
2000	352	8	149.38	5.61	170.2	8.28	168.22	14.86	33.5	28.31	14.9	0.53	0.5	0.03	59.51	54.66	0.15
2000	352	9	150.88	7.32	170.93	9.55	170.02	18.19	26.05	20.8	10.86	0.52	0.62	-0.09	58.7	53.65	0.4
2000	352	10	138.02	5.28	159.27	8.27	159.85	16.35	29.52	23.23	12.21	0.45	0.55	-0.1	57.35	53.02	0.01
2000	352	11	145.11	6.41	165.77	8.84	164.55	15.56	34.6	28.37	15.24	0.62	0.54	0.08	59.11	54.49	0.07
2000	352	12	142	9.21	162.27	11.15	161.59	20.67	25.29	20.77	10.64	0.78	0.56	0.22	57.53	52.51	0.54
2000	352	13	142.15	5.91	155.36	7.82	154.55	19.55	15.29	12.62	5.3	1.06	1.15	-0.09	56.79	51.67	0.07
2000	352	14	184.32	8.74	202.41	11.09	186.82	19.83	21.08	17.15	8.06	0.31	0.13	0.18	57.17	50.79	0
2000	352	15	165.55	9.29	185.05	10.4	173.29	16.93	19.32	15.82	8.03	-0.17	-0.34	0.17	54.36	46.05	0.01
2000	352	16	137.13	6.86	157.29	8.13	158.64	16.86	15.65	11.82	5.31	-0.06	-0.19	0.13	51.49	43.78	0
2000	352	17	164.15	6.32	187.02	7.76	180.1	13.2	18.81	15.39	7.89	-0.34	-0.5	0.16	50.79	42.08	0
2000	352	18	201.85	13.71	222.96	14.43	224.25	29.69	15.36	12.77	5.96	-0.96	-0.75	-0.2	50.44	41.77	0
2000	352	19	255.6	7.94	279.09	10.48	283.58	26.87	39.95	35.61	15.24	-1.62	-0.98	-0.64	46.14	33.96	0
2000	352	20	259.78	10.94	283.6	12.58	287.82	27	35.87	31.32	13.84	-1.67	-0.73	-0.94	39.87	30.59	0.01
2000	352	21	229.96	24.32	247.11	26.59	234.21	47.95	18.55	14.89	7.49	-1.55	-0.91	-0.65	39.35	28.3	0
2000	352	22	227.26	16.15	245	19.09	240.25	39.31	23.37	19.99	9.3	-1.74	-1.03	-0.71	38.52	24.24	0
2000	352	23	235.17	14.82	257.23	16.58	261.06	33.29	25.75	22.12	10.12	-1.82	-1.08	-0.74	35.65	19.55	0
2000	353	0	235.34	14.92	255.07	16.63	255.62	32.42	25.88	22.67	10.62	-1.88	-1.07	-0.81	33.23	15.61	0
2000	353	1	231.85	17.62	251.22	20.36	247.99	40.64	17.61	14.79	7.01	-1.84	-1.04	-0.8	31.23	13.45	0
2000	353	2	214.32	14.85	233.53	16.97	221.5	34.95	18.11	16.14	7.83	-1.88	-1.05	-0.82	29.97	12.06	0
2000	353	3	216.72	14.38	237.48	16.67	234.45	39.1	19.01	16.49	7.39	-1.93	-1.07	-0.87	29.11	11.35	0
2000	353	4	220.49	15.54	242.09	17.66	239.45	36.69	15.79	13.71	7.11	-1.96	-1.07	-0.89	28.39	10.78	0
2000	353	5	212.74	14.25	232.3	14.55	227.07	26.97	15.82	14.34	7.66	-1.89	-1.05	-0.84	28.27	10.78	0
2000	353	6	235.31	14.05	255.37	15.9	260.65	33.05	15.49	13.66	6.71	-1.84	-1.03	-0.81	28.18	11.11	0
2000	353	7	251.5	15.85	272.72	20.05	273.1	38.44	16.69	13.93	6.8	-1.86	-1.06	-0.8	27.98	10.43	0
2000	353	8	248.08	16.67	270.55	18.77	271.86	35.45	15	13.3	6.67	-2.18	-1.21	-0.97	28.3	10.48	0
2000	353	9	277.17	18.76	305.19	19.68	307.9	35.43	18.11	16.38	7.8	-2.61	-1.25	-1.36	29.16	11.11	0
2000	353	10	265.35	25.39	294.48	28.56	300.11	41.53	16.89	15.31	8.1	-2.68	-1.26	-1.41	30.11	10.89	0
2000	353	11	264.09	12.83	287.66	16.77	290.05	31.2	19.56	18.31	8.72	-2.92	-1.32	-1.59	31.52	11.56	0
2000	353	12	267.76	16.75	294.68	20.14	292.19	37.82	16.57	14.85	6.98	-3.19	-1.29	-1.9	32.88	12.46	0
2000	353	13	266.7	15.96	289.27	19.55	291.9	35.88	15.22	13.79	6.34	-3.06	-1.29	-1.77	33.79	12.73	0
2000	353	14	266.91	14	290.05	17.04	288.57	31.28	15.09	13.75	6.94	-2.73	-1.29	-1.44	34.29	13.01	0
2000	353	15	262.96	19.31	287.79	23.59	283.85	46.9	11.12	9.52	4.75	-2.37	-1.18	-1.19	34.17	12.86	0
2000	353	16	281.47	28.76	309.26	36.88	308.85	50.06	8.17	6.72	3.65	-1.83	-1.05	-0.78	33.48	12.62	0
2000	353	17	273.45	19.88	295.21	20.13	292.87	39.66	7.87	6.74	3.34	-1.53	-0.99	-0.54	32.89	12.59	0
2000	353	18	267.7	21.76	272.02	19.57	235.59	44.85	6.07	5.19	2.07	-0.91	-0.86	-0.05	31.92	13.14	0
2000	353	19	239.64	18	238.08	17.19	194.58	24.8	6.04	5.41	2.49	-0.84	-0.71	-0.13	31.01	13.52	0
2000	353	20	243.91	29.01	239.78	29.37	199.84	31.08	4.56	4.14	2.85	-1.25	-0.8	-0.46	30.88	12.4	0
2000	353	21	1.24	55.8	88.77	57.48	117.72	37.96	2.33	1.95	2.37	-0.67	-0.82	0.15	30.13	12.51	0
2000	353	22	96.21	44.53	165.03	55.26	116.61	24.46	1.39	1.62	1.76	-0.87	-0.75	-0.12	29.67	12.44	0
2000	353	23	348.03	19.42	35.2	31.41	65.11	29.69	3.38	2.54	1.95	-0.63	-0.5	-0.13	28.95	13.47	0
2000	354	0	240.12	22.09	1.27	38.37	12.09	16.23	2.88	1.91	2.1	0.29	-0.02	0.31	27.37	15.47	0
2000	354	1	51.36	33.02	47.7	20.36	41.3	20.77	2.79	2.86	2.53	0.92	-0.25	1.17	26.38	14.48	0

2000	354	2	214.6	23.97	330.45	23.75	4.44	14.88	3.11	2.99	2.65	0.6	0.04	0.56	25.76	15.59	0
2000	354	3	258.5	25.67	3.23	23.15	47.59	26.82	3.99	2.75	2.89	1.3	0.07	1.24	25.32	15.46	0
2000	354	4	330.83	19.78	25.35	6.37	39.58	12.95	3.65	6.71	4.37	1.37	1.02	0.35	25.14	15.19	0
2000	354	5	358.9	7.1	28.49	9.49	47.81	23.99	4.5	5.1	3.08	0.15	-0.16	0.31	25.15	14.84	0
2000	354	6	55.32	11.26	32.03	19.07	38.89	34.82	3.73	3.68	2.48	-0.23	-0.32	0.09	25.19	15.28	0
2000	354	7	21.62	22.5	17.28	18.26	16.43	14.77	2.4	3.27	2.97	-1.2	-0.42	-0.77	26.23	16.48	0
2000	354	8	349.8	65.75	37.7	48.94	71.45	55.36	1.63	1.76	1.52	-1.64	-0.79	-0.85	26.98	16.27	0
2000	354	9	119.43	51.43	132.53	47.09	166.5	54.24	1.71	1.87	1.46	-2.14	-1.09	-1.06	28.51	16.98	0
2000	354	10	166.89	25.32	194.71	30.42	209.46	36.94	3.1	2.7	2.21	-2.19	-1.15	-1.04	29.73	16.98	0
2000	354	11	108.44	26.3	145.62	33.72	131.47	54.79	3.02	2.27	1.82	-2.1	-1.07	-1.03	30.49	16.1	0
2000	354	12	349.32	60.76	351.93	38.46	344.96	38.84	2.07	2.25	2.01	-1.94	-0.98	-0.96	31.19	17.29	0
2000	354	13	353.45	19.45	352.7	15.76	358.89	20.74	3.05	3.58	3.19	-1.86	-0.9	-0.96	32.27	18.42	0
2000	354	14	339.28	13.85	353.33	15.48	355.84	22.82	3.87	3.68	2.73	-1.92	-1.02	-0.9	33.88	18.41	0
2000	354	15	337.9	6.49	354.32	7.12	353.17	15.71	7.89	6.98	3.55	-1.46	-0.79	-0.67	34.56	19.15	0
2000	354	16	344.61	8.04	7.22	10.76	12.17	18.36	9.48	8	4.93	-1.67	-0.92	-0.75	34.93	19.27	0
2000	354	17	351.68	9.93	14.08	11.04	18.29	15.21	8.53	7.93	5.16	-1.7	-0.98	-0.73	35.23	19.25	0
2000	354	18	348.25	9.23	6.54	13.05	10.1	17.76	12.47	10.64	6.23	-1.71	-0.96	-0.75	35	19.62	0
2000	354	19	348.08	9.02	7.46	14.04	10.39	17.72	12.57	10.92	6.23	-1.67	-0.96	-0.71	35.13	19.37	0
2000	354	20	342.43	7.96	3.87	11.99	10.78	18.62	16.07	13.98	7.14	-1.83	-1.01	-0.82	35	19.69	0
2000	354	21	346.07	8.29	7.87	11.06	13.52	16.79	15.28	13.14	7.16	-1.93	-1.09	-0.85	34.57	20	0
2000	354	22	339.79	5.83	359.85	15.04	9.38	19.79	18.22	16.59	8.49	-1.93	-1.08	-0.85	34.38	19.49	0
2000	354	23	338.1	5.56	358.89	13.2	8.47	18.86	21.77	19.88	9.72	-1.94	-1.07	-0.88	33.76	19.36	0
2000	355	0	341.81	8.69	3.97	12.3	11.67	18.16	21.68	19.24	10.72	-1.99	-1.09	-0.9	32.99	20.19	0
2000	355	1	328.79	8.65	351.81	11.5	355.36	22.77	22.59	20.66	9.19	-1.91	-1.03	-0.89	32.1	23.04	0
2000	355	2	325.69	9.24	352.01	12.63	0.33	26.2	18.53	16.4	7.47	-1.53	-0.83	-0.71	31.38	23.91	0
2000	355	3	329.75	10.34	358.09	13.58	6.11	22.87	11.66	9.85	4.96	-1.5	-0.78	-0.72	31.22	24.73	0.01
2000	355	4	316.97	16.32	342.42	17.07	346.04	27.59	13.01	11.67	6.06	-1.47	-0.98	-0.49	30.98	24.01	0
2000	355	5	306.91	13.98	335.51	13.35	337.48	25.54	16.95	15.29	7.43	-1.73	-1.01	-0.72	30.67	21.94	0
2000	355	6	297.09	19.24	322.49	20.06	326.52	32.74	12.96	10.97	5.3	-1.74	-1.03	-0.71	30.88	20.56	0
2000	355	7	285.2	12.88	309.4	13.6	313.75	26.04	19.46	16.88	7.37	-1.94	-1.14	-0.8	31.79	18.57	0
2000	355	8	270.53	10.59	293.96	13.21	294.36	28.72	22.6	19.76	8.63	-2.03	-1.19	-0.85	30.64	15.86	0
2000	355	9	273.97	12.16	299.38	15.4	296.17	35.33	25.65	22.69	9.45	-2.47	-1.29	-1.18	29.12	13.09	0
2000	355	10	267.81	13.6	292.9	15.97	295.77	32.49	19.54	17.28	8.36	-2.73	-1.37	-1.36	29.38	11.93	0
2000	355	11	257.76	12.14	282.87	14.94	288.43	28.21	24.51	21.97	10.36	-2.74	-1.4	-1.34	29.45	10.96	0
2000	355	12	263.26	11.89	286.69	14.8	291.04	26.07	23.38	21.28	9.92	-2.89	-1.34	-1.55	29.77	10.72	0
2000	355	13	272.22	10.48	295.3	13.03	295.83	26.65	25.34	23.4	10.66	-2.7	-1.25	-1.45	30.14	9.72	0
2000	355	14	280.91	13.91	307.08	16.1	306.79	29.05	22.56	20.24	8.77	-2.71	-1.29	-1.42	31.21	9.66	0
2000	355	15	280.61	11.16	308.07	14.1	309.33	29.23	23.78	20.71	9.43	-2.39	-1.21	-1.18	31.03	9.21	0
2000	355	16	273.21	10.56	300.22	12.69	300.33	28.16	20.98	18.91	8.57	-2.06	-1.18	-0.87	30.43	9.56	0
2000	355	17	275	15.34	300.33	17.05	301.54	35.43	15.74	13.86	6.46	-1.8	-1.12	-0.68	29.64	9.54	0
2000	355	18	277.89	14.24	303.42	16.85	303.68	32.63	16.43	14.28	6.52	-1.83	-1.13	-0.7	29.16	9.94	0
2000	355	19	265.68	17.86	286.84	20.8	277.42	35.07	11.76	10.01	5.12	-1.65	-1.06	-0.6	28.41	10.04	0
2000	355	20	250.99	25.95	264.58	27.06	261.68	47.27	9.16	7.41	3.8	-1.63	-0.96	-0.67	28	10.05	0
2000	355	21	252.9	16.86	268.45	22.77	264.34	38.2	9.45	8.06	3.96	-1.56	-0.98	-0.58	27.38	10.09	0
2000	355	22	257.8	16.3	280.13	20.56	279.69	32.79	11.63	9.84	4.94	-1.65	-1.01	-0.64	26.59	9.52	0
2000	355	23	280.52	14.59	305.97	15.93	304.18	32.5	17.44	15.38	7.09	-1.86	-1.11	-0.76	26.13	9.71	0
2000	356	0	287.58	23.55	308.58	24.29	314.71	58.48	8.71	7.6	3.41	-1.68	-1.05	-0.63	25.48	8.49	0
2000	356	1	262.26	24.45	277.6	29.64	264.44	46.73	6.78	6.1	3.36	-1.61	-0.96	-0.65	24.84	8.18	0
2000	356	2	341.24	70.26	22.56	70.66	141.39	61.18	3.54	2.99	2.36	-1.14	-0.88	-0.26	24.15	8.05	0

2000	356	3	305.5	40.15	328.81	47.74	333.85	49.86	4.79	4.53	3.11	-1.45	-0.92	-0.53	24.11	8.27	0
2000	356	4	323.69	17.74	7.36	17.26	31.07	27.98	6.27	5.69	3.96	-1.29	-0.93	-0.36	23.14	8.82	0
2000	356	5	312.07	15.43	5.54	13.06	33.76	16.62	4.98	5.83	4	0.03	-0.51	0.54	21.61	9.99	0
2000	356	6	319.29	22.2	22.15	12.11	54.89	16.95	3.66	5.15	3.63	0.33	-0.16	0.49	20.91	9.62	0
2000	356	7	240.48	47.79	29.56	28.29	43.35	49.22	2.15	3.47	2.28	-0.46	-0.28	-0.18	20.8	9.88	0
2000	356	8	312.39	36.7	39.02	18.7	46.38	19.19	2.04	2.7	2.65	-1.37	-0.7	-0.67	21.51	11.24	0
2000	356	9	37.76	42.95	29.24	47.84	10.97	24.55	2.33	2.63	2.77	-1.93	-1.04	-0.88	23.05	11.44	0
2000	356	10	179.27	46.3	227.86	51.72	222.76	52.37	3.34	3.2	2.82	-2.32	-1.21	-1.11	24.89	11.23	0
2000	356	11	143.17	19.63	167.2	17.22	172.94	27.34	5.22	5.17	4.15	-2.8	-1.3	-1.5	26.75	10.89	0
2000	356	12	140.96	20.14	162.65	26.81	173.6	45.74	4.99	4.75	3.64	-2.73	-1.24	-1.49	28.17	11.95	0
2000	356	13	148.46	13.66	177.32	15.31	177.36	23.66	5.86	5.71	4.56	-2.65	-1.24	-1.41	29.89	12.32	0
2000	356	14	146.66	10.35	167.52	12.3	166.92	18.36	7.94	7.58	5.22	-2.76	-1.22	-1.55	31.82	11.52	0
2000	356	15	144.37	9.65	167.06	11.98	168.37	17.65	9.01	8.18	5.16	-2.37	-1.09	-1.28	32.15	11.75	0
2000	356	16	158.3	7.15	180.42	9.43	175.79	14.03	12.57	10.87	6.23	-1.8	-1.03	-0.77	32.03	12.15	0
2000	356	17	150.4	5.15	170.91	7.13	168.14	13.09	11.97	10.35	5.8	-1.63	-0.96	-0.67	31.61	12.97	0
2000	356	18	169.26	5.95	194.22	8.47	189.47	15.24	11.37	9.86	5.73	-1.58	-0.96	-0.63	31.24	12.87	0
2000	356	19	185.54	8.98	210.75	10.28	194.99	21.33	7	5.68	2.67	-1.3	-0.85	-0.45	30.58	12.76	0
2000	356	20	179.2	4.42	203.47	6.93	193.28	22.6	8.6	6.07	2.64	-1.13	-0.72	-0.41	30.39	13.38	0
2000	356	21	176.15	4.58	197.25	6.37	190.88	13.85	11	9.01	5.32	-1.57	-0.92	-0.65	30.58	13.18	0
2000	356	22	190.38	6.52	213.92	10.54	196.26	20.84	7.04	5.44	3.19	-1.74	-0.96	-0.77	30.49	13.14	0
2000	356	23	180.3	6.74	190.62	7.06	175.54	13.82	7.6	6.69	3.73	-1.66	-0.96	-0.7	30.32	12.86	0
2000	357	0	188.1	9.63	196.71	9.1	179.96	15.75	6.09	5.63	3.23	-1.7	-0.98	-0.72	30.39	12.9	0
2000	357	1	177.23	12.3	193.55	12.3	166.58	19.1	4.43	4.25	1.91	-1.62	-1.01	-0.62	30.31	13.18	0
2000	357	2	136.82	11.99	156.22	13.05	132.46	19.51	3.78	3.64	1.85	-1.6	-1	-0.61	30.2	13.28	0
2000	357	3	132.05	12.38	145.63	11.9	145.52	24.71	3.77	3.83	1.99	-1.47	-0.96	-0.51	30.05	13.39	0
2000	357	4	206.5	9.57	233.56	12.96	219.94	36.49	5.54	5.29	2.64	-2.01	-1.08	-0.92	29.56	15.44	0
2000	357	5	194.85	17.12	218.63	18.97	207.47	32.71	3.43	3.32	1.98	-1.91	-1.04	-0.87	28.82	16.39	0
2000	357	6	184.23	13.02	203.26	15.57	197.18	21.95	3.89	3.66	2.63	-1.87	-0.97	-0.9	28.15	17.95	0
2000	357	7	162.07	7.77	185.13	9.74	180.14	14.9	5.26	4.83	3.08	-1.93	-1.02	-0.9	27.85	19.08	0
2000	357	8	176.41	12.53	201.16	15.79	201.04	24.82	4.08	3.69	2.81	-2.09	-1.12	-0.97	28.17	19.6	0
2000	357	9	233.49	31.24	224.27	33.25	234.19	43.98	2.86	2.19	1.93	-2.05	-1.12	-0.93	28.54	19.76	0
2000	357	10	16.8	31.01	30.42	28.4	26.6	30.99	1.99	2.33	2.3	-2.07	-1.1	-0.98	29.15	20.5	0
2000	357	11	74.28	53.41	75.97	49.87	29.7	56.23	2.02	2.22	2.12	-2.11	-1.16	-0.95	29.99	21.27	0
2000	357	12	156.2	40.77	294.7	46.53	328.36	33.99	1.79	1.79	1.91	-1.9	-1	-0.9	30.1	22.88	0
2000	357	13	212.98	23.08	239.42	48.46	250.08	40.27	2.91	2.12	1.8	-1.76	-0.9	-0.85	30.18	23.32	0
2000	357	14	261.63	22.44	284.43	23.31	286.54	46.47	8.12	6.79	3.31	-1.94	-1	-0.93	30.59	21.85	0
2000	357	15	285	23.77	312.84	31	318.73	49.71	10.56	8.47	4.16	-1.91	-1.03	-0.88	30.31	19.9	0
2000	357	16	272.96	22.06	292.36	26.04	286.91	44.26	11.98	10.25	5	-1.83	-1.05	-0.78	30.37	15.01	0
2000	357	17	257.9	16.56	279.99	19.65	279.98	38.78	10.81	8.82	4.21	-1.76	-1.06	-0.71	29.78	13.25	0
2000	357	18	265.09	10.28	288.46	13.04	289.4	29.93	17.75	15.8	6.7	-1.84	-1.05	-0.79	28.05	15.43	0
2000	357	19	277.01	9.58	301.87	12.45	301.8	24.43	24.44	22.95	9.42	-2.05	-1.12	-0.93	26.67	11.6	0
2000	357	20	290.95	12.68	316.33	14.19	313.24	26.48	26.7	24.14	10.31	-2.2	-1.16	-1.04	24.09	7.81	0
2000	357	21	297.03	14.97	323.51	15.67	325.28	31.59	27.27	23.8	10.42	-2.1	-1.14	-0.96	20.37	1.54	0
2000	357	22	288.27	11.75	314.09	14.42	316.19	34.21	26.29	22.46	9.32	-2.19	-1.18	-1.01	18.17	0.53	0
2000	357	23	284.88	11.1	310.7	13.44	306.37	36.64	28.65	24.59	9.84	-2.22	-1.19	-1.03	16.55	-0.85	0
2000	358	0	287.87	9.22	314.85	11.8	314.23	35	33.8	30.06	11.11	-2.33	-1.2	-1.13	15.48	-1.55	0
2000	358	1	287.98	9.12	315.03	10.5	315.36	30.55	32.08	29.06	11.5	-2.32	-1.16	-1.15	14.76	-2.5	0
2000	358	2	269.69	9.14	294.44	11.43	295.76	31.99	25.78	22.39	9.25	-2.13	-1.11	-1.03	13.76	-3.65	0
2000	358	3	283.27	31.09	305.99	41.26	320.61	68.84	11.73	9.87	4.62	-1.97	-1.08	-0.89	12.96	-4.16	0

2000	358	4	281.12	44.36	299.48	45	303.38	65.67	8.96	8.03	4.46	-1.84	-1.02	-0.82	12.89	-3.42	0
2000	358	5	278.44	28.2	307.62	30.3	317.27	61.22	11.64	9.7	4.71	-1.96	-1.07	-0.9	13.09	-2.4	0
2000	358	6	282.07	52.99	297.5	49.94	341.99	64.1	11.44	8.85	4.85	-1.88	-1.01	-0.88	12.98	-2.27	0
2000	358	7	297.43	36.05	322.73	48.46	355.75	81.09	11.89	9.24	4.65	-1.86	-1.04	-0.81	13.58	-1.06	0
2000	358	8	290.05	11.67	314.78	13.2	319.57	37.57	19.46	16.13	6.22	-2.25	-1.08	-1.17	15.24	1.23	0
2000	358	9	287.31	11.54	313.47	13.5	317.39	31.91	19.47	16.79	7.12	-2.58	-1.18	-1.4	17.77	2.42	0
2000	358	10	276.34	14.8	301.32	19.87	308.12	45.39	17.3	14.49	6.22	-2.91	-1.27	-1.64	19.46	3.18	0
2000	358	11	269.91	18.63	293.16	22.18	304.44	42.18	14.13	11.82	5.64	-2.96	-1.28	-1.68	21.89	4.47	0
2000	358	12	269.93	18.2	291.8	19.11	290.85	35.23	14.53	13.39	6.39	-3.05	-1.2	-1.85	24.46	5.75	0
2000	358	13	256.01	15.48	280.85	16.85	282.42	29.59	15.58	13.82	7.06	-2.85	-1.18	-1.67	26.56	6.23	0
2000	358	14	265.14	12.77	291.93	15.89	293.97	26.53	15.87	14.66	7.49	-2.68	-1.23	-1.45	27.11	6.63	0
2000	358	15	277.69	10.35	301.41	12.93	307.12	41.82	17.64	15.73	6.71	-2.27	-1.11	-1.16	27.52	7.06	0
2000	358	16	266.67	21.52	287.01	27.74	283.52	52.81	9.23	7.3	3.4	-1.79	-1.01	-0.78	27.41	7.07	0
2000	358	17	266.12	23.75	276.27	35.61	252.82	47.35	8.33	6.27	2.95	-1.38	-0.92	-0.47	26.81	6.84	0
2000	358	18	238.74	21.57	253	28.53	231.61	49.16	8.6	6.81	4.09	-1.42	-0.89	-0.53	26.17	6.84	0
2000	358	19	234.56	21.57	247.46	22.35	235.52	37.36	6.75	5.9	2.8	-1.58	-0.96	-0.63	25.4	6.85	0
2000	358	20	264.06	23.03	276.64	25.33	274.84	60.66	6.67	5.18	2.36	-1.56	-0.96	-0.6	25.15	6.57	0
2000	358	21	270.16	24.49	287.87	28.33	257.48	60.35	5.91	4.7	2.05	-1.42	-0.97	-0.45	24.73	7.14	0
2000	358	22	253.04	49.31	249.23	55.33	168.16	51.61	2.89	3.03	2.37	-1	-0.77	-0.23	24.05	7.38	0
2000	358	23	264.32	16.84	250.76	11.36	233.88	19.61	4.91	5.2	3.49	-0.62	-0.43	-0.19	23.17	7.65	0
2000	359	0	277.38	15.73	287.7	41.95	255.58	34.93	6.38	6.32	3.41	-0.85	-0.52	-0.33	22.94	7.12	0
2000	359	1	217.74	40.15	225.22	40.04	180.66	32.63	4.87	5.2	3	-0.31	-0.45	0.13	22.21	7.06	0
2000	359	2	321.14	41.7	223.62	22.61	156.81	45.67	2.57	3.01	2.55	-0.58	-0.61	0.03	21.98	6.91	0
2000	359	3	7.72	16.82	50.7	24.04	87.46	34.02	2.86	3.4	2.29	-0.23	-0.48	0.24	21.58	7.6	0
2000	359	4	337.16	26.15	36.02	9.43	99.67	17.23	2.47	3.89	2.23	-0.03	-0.21	0.18	20.77	7.21	0
2000	359	5	203.8	19.61	354.55	16.62	353.48	40.57	2.39	2.19	1.77	-0.12	-0.39	0.27	20.14	8.41	0
2000	359	6	143.32	47.59	17.95	23.16	28.6	10.72	1.58	2.21	2.55	0.47	-0.37	0.84	18.89	8.24	0
2000	359	7	191.14	38.82	11.77	35.16	27.75	12.93	1.87	2.07	2.36	1.11	-0.21	1.32	17.77	8.84	0
2000	359	8	155.23	17.62	87.93	58.37	5.5	26.48	2.66	1.72	2.12	0.69	0.14	0.54	18.05	8.99	0
2000	359	9	155.01	18.2	194.59	34.6	211.65	42.27	3.53	2.67	2.16	-1.83	-0.92	-0.91	21.32	10.42	0
2000	359	10	152.38	13.96	176.61	16.86	179.27	20	6.61	6.21	4.91	-2.73	-1.3	-1.43	24.92	10.16	0
2000	359	11	161.49	8.33	180.02	11.22	172.97	17.3	12.33	10.65	6.8	-2.68	-1.22	-1.46	27.86	9.3	0
2000	359	12	176.2	10.3	198.27	14.39	187.31	17.92	12.56	10.84	6.81	-2.65	-1.28	-1.37	29.26	7.24	0
2000	359	13	181.38	5.85	203.85	9.72	191.09	16.64	14.96	12.55	8.06	-2.49	-1.24	-1.25	28.69	6.66	0
2000	359	14	175.56	9.93	199.87	13.03	188.34	19.83	10.52	9.19	6.06	-2.59	-1.23	-1.36	29.23	8.03	0
2000	359	15	172.03	6.99	193.58	9.06	184.49	14.3	10.82	9.62	6.42	-2.18	-1.08	-1.1	30.08	8.56	0
2000	359	16	178.72	6.54	200.53	8.73	189.82	14.02	12.73	11	6.68	-1.62	-0.98	-0.64	29.69	8.73	0
2000	359	17	189.32	5.04	210.51	7.11	192.37	15.67	10.21	8.23	4.32	-1.5	-0.95	-0.55	29.3	9.19	0
2000	359	18	200.49	5.46	214.22	5.56	191.58	14.76	11.21	9.5	4.76	-0.88	-0.72	-0.16	28.55	9.31	0
2000	359	19	200.27	11.37	207.46	8.12	182.4	13.21	8.93	9.22	5.37	-0.52	-0.77	0.24	27.93	9.81	0
2000	359	20	214.77	16.55	206.45	7.52	181.57	13.27	6.3	7.16	3.72	0.1	-0.34	0.45	26.54	10.08	0
2000	359	21	207.93	12.34	210.67	5.78	184.95	20.74	7.16	9.02	3.11	0.8	0.05	0.75	25.44	10.23	0
2000	359	22	259.02	22.64	285.11	26.27	296.66	41.52	9.78	7.78	3.9	-1.04	-0.72	-0.32	26.14	12.1	0
2000	359	23	258.54	21.76	280.67	25.17	284.08	53.65	9.2	7.42	3.85	-1.56	-0.96	-0.6	26.18	9.7	0
2000	360	0	267.24	19.83	285.81	22.47	287	45.51	15.62	13.09	5.84	-1.48	-0.96	-0.52	25.35	4.65	0
2000	360	1	275.66	15.34	300.4	18.59	302.08	34.66	17.17	14.85	7.32	-1.71	-1.03	-0.68	24.51	3.59	0
2000	360	2	274.08	17.43	304.19	20.78	298.95	37.44	13.01	11.61	5.03	-1.68	-1.04	-0.63	23.39	3.9	0
2000	360	3	270.22	15.86	293.11	16.71	294.21	30.01	16.26	14.39	7.05	-1.72	-1.01	-0.71	22.53	3.02	0
2000	360	4	274.38	14.39	301.04	16.01	301.16	30.32	18.68	16.38	7.05	-1.76	-1.05	-0.71	21.46	0.94	0

2000	360	5	270.07	13.18	295.77	16.14	295.72	27.69	22.02	19.51	8.8	-1.85	-1.05	-0.8	20.21	-1.12	0
2000	360	6	281.78	16.19	310.53	17.74	313.91	33.78	24.91	21.77	9.89	-1.92	-1.08	-0.84	19.05	-1.84	0
2000	360	7	290.72	14.47	317.6	16.85	319.93	28.71	24.7	22.21	9.85	-2.07	-1.11	-0.96	18.28	-1.41	0
2000	360	8	300.67	16.64	325.13	20.61	327.24	36.71	21.71	19.04	8.89	-2.22	-1.15	-1.07	17.18	-2.67	0
2000	360	9	317.13	16.67	342.81	19.8	346.7	34.79	21.01	19.13	10.57	-2.47	-1.18	-1.29	17.12	-2.71	0
2000	360	10	303.11	20.36	324.6	24.15	324.87	37.41	21.38	18.49	9.17	-2.69	-1.22	-1.47	18.24	-2.21	0
2000	360	11	304.08	19.83	329.13	20.05	330.09	33.59	21.98	20.31	10.42	-2.74	-1.21	-1.53	19.44	-1.72	0
2000	360	12	301.92	16.56	327.5	17.85	328.27	30.82	25.07	22.71	10.89	-2.53	-1.18	-1.35	19.62	-2.32	0
2000	360	13	307.2	11.89	334.04	14.36	329.48	27.24	23.77	22.06	9.93	-2.66	-1.21	-1.45	19.53	-2.76	0
2000	360	14	298.31	14.45	324.48	15.61	323.52	26.63	22.91	21.31	9.38	-2.77	-1.21	-1.56	19.82	-2.66	0
2000	360	15	305.73	15.64	332.6	17.13	330.29	28.67	21.82	19.4	9.22	-2.38	-1.15	-1.23	19.58	-4.07	0
2000	360	16	308.58	14.67	335.85	15.76	334.79	27.06	20.63	18.6	8.84	-2.12	-1.14	-0.98	18.58	-3.98	0
2000	360	17	299.84	18.05	323.87	19.51	314.68	31.81	16.88	14.7	7.06	-2	-1.12	-0.88	17	-3.06	0
2000	360	18	287.79	16.33	314.08	18.06	311.04	28.92	16.65	14.7	7.14	-1.97	-1.1	-0.87	15.66	-2.53	0
2000	360	19	306.23	23.25	334.14	23.52	333.76	34.42	14.76	13.18	7.02	-1.97	-1.11	-0.87	14.82	-2.94	0
2000	360	20	298.23	16.03	321.55	16.43	318.56	27.93	16.56	14.57	7.07	-1.96	-1.09	-0.87	14.48	-3.41	0
2000	360	21	286.36	11.66	310.09	13.15	304.74	24.34	20.2	17.81	8.12	-1.96	-1.08	-0.88	14.42	-3.02	0
2000	360	22	280.13	14.79	303.5	15.84	299.9	26.35	17.46	15.56	7.57	-1.88	-1.04	-0.84	14.04	-2.79	0
2000	360	23	274.87	15.02	294.87	17.7	292.4	30.05	16.76	14.73	7.11	-1.83	-1.02	-0.81	13.89	-2.53	0
2000	361	0	272.29	11.82	296.02	12.85	294.26	25.64	18.46	15.8	7.44	-1.81	-1	-0.81	13.42	-2.22	0
2000	361	1	275.12	12.62	299.45	14.56	299.55	25.16	17.97	15.7	7.24	-1.86	-1.02	-0.84	13.51	-1.85	0
2000	361	2	277.48	18.01	296.38	17.34	296.9	27.77	14.62	12.36	6.46	-1.78	-1.01	-0.78	13.62	-1.92	0
2000	361	3	269.69	12.47	290.46	14.04	292.89	26.2	17.77	15.57	7.17	-1.68	-0.93	-0.75	13.72	-1.31	0
2000	361	4	274.99	16.5	294.9	17.26	294.82	26.56	17.78	15.37	7.56	-1.7	-0.94	-0.76	14.12	-0.55	0
2000	361	5	268.78	15.45	289.97	16.22	291.27	29.03	13.63	11.97	5.9	-1.73	-0.97	-0.75	13.76	-0.09	0
2000	361	6	268.23	16.48	288.02	16.89	291.15	28.47	14.69	12.66	6.05	-1.61	-0.88	-0.72	14.54	0.37	0
2000	361	7	257.02	16.11	271.62	16.5	273.7	26.49	14.44	11.97	6.31	-1.65	-0.9	-0.75	14.88	1.13	0
2000	361	8	258.05	13.92	277.93	15.94	283.96	27.94	16.06	13.87	6.9	-2.02	-1.08	-0.94	16.37	2.25	0
2000	361	9	258.03	18.51	278.65	18.78	281.47	33.84	12.84	11.27	6.19	-2.54	-1.2	-1.34	18.88	3.53	0
2000	361	10	269.42	23.84	293.2	27.14	303.1	50.97	11.58	10.55	5.75	-2.81	-1.25	-1.56	21.21	4.86	0
2000	361	11	289.03	23.92	314.21	27.98	313.64	43.93	16.43	14.29	7.41	-2.67	-1.21	-1.47	23.23	5.7	0
2000	361	12	288.81	18.18	315.51	21.17	314.21	37.38	17.2	15.75	7.79	-2.72	-1.2	-1.53	25.42	6.39	0
2000	361	13	281.6	12.85	306.35	15.06	308.01	26.17	23.17	20.75	9.66	-2.66	-1.2	-1.47	26.24	6.43	0
2000	361	14	287.57	14.04	312.39	16.43	310.82	25.96	23.62	21.54	10.58	-2.45	-1.16	-1.3	27.1	5.98	0
2000	361	15	283.87	10.96	309.57	13.21	311.31	25.93	22.78	20.97	8.93	-2.3	-1.12	-1.18	27.64	5.59	0
2000	361	16	277.22	9.74	300.64	11.76	299.29	24.78	21.94	20.03	8.61	-1.86	-1.05	-0.81	27.26	4.6	0
2000	361	17	277.81	10.98	304.72	13.04	303.11	27.21	23.65	21.15	9.27	-1.81	-1.04	-0.76	26.48	3.78	0
2000	361	18	283.31	10.48	309.87	11.18	308.9	22.35	23.09	20.31	9.29	-1.81	-1.04	-0.77	25.58	3.24	0
2000	361	19	283.6	12.56	309.27	13.69	308.64	28.14	17.69	15.6	6.95	-1.69	-1.04	-0.65	25.11	3.83	0
2000	361	20	283.17	15.87	306.63	17.77	307.3	32.45	16.05	14.02	6.75	-1.65	-1.02	-0.64	24.85	4.95	0
2000	361	21	280.16	15.71	307.29	18.41	310.75	31.61	17.37	14.39	6.92	-1.71	-1.01	-0.7	24.53	6.41	0
2000	361	22	283.7	12.97	309.86	14.73	310.39	26.05	20.67	17.65	8.35	-1.72	-1.01	-0.72	24.16	7.45	0
2000	361	23	273.01	15.96	298.02	17.93	296.7	25.38	15.91	13.68	6.86	-1.65	-1	-0.66	23.78	7.47	0
2000	362	0	267.53	11.47	294.35	12.99	298.39	24.92	18.12	15	7.13	-1.61	-0.95	-0.66	23.84	7.73	0
2000	362	1	259.64	11.64	281.52	13.05	287.93	24.03	15.75	13.55	6.22	-1.59	-0.95	-0.64	23.41	7.36	0
2000	362	2	268.02	14.99	292.24	15.62	297.12	26.59	16.02	13.41	6.33	-1.63	-0.97	-0.67	23.17	7.46	0
2000	362	3	279.51	15.56	304.44	16.21	309.94	32.51	19.3	16.05	7.26	-1.65	-0.97	-0.67	23.64	8.16	0
2000	362	4	283.34	18.44	311.12	20.86	307.88	37.37	15.25	13.02	5.83	-1.65	-1.01	-0.63	23.75	8.6	0
2000	362	5	288.58	15.57	318.8	16.78	316.75	31.95	15.78	13.61	5.77	-1.71	-1.02	-0.69	24.1	9.06	0

2000	362	6	293.1	20	325.5	21.12	329.81	36.27	11.73	10.1	5.16	-1.67	-1.02	-0.65	24.27	9.12	0
2000	362	7	274.33	21.29	302.35	23.84	305.21	52.44	11.34	9.44	4.14	-1.88	-1.1	-0.78	24.66	9.43	0
2000	362	8	288.15	25.61	312.41	30.17	334.79	57.63	9.98	8.62	4.16	-2.04	-1.1	-0.93	24.81	9.47	0
2000	362	9	266.59	21.57	289.41	24.08	286.54	44.89	9.72	8.12	4.43	-2.17	-1.15	-1.02	25.22	9.19	0
2000	362	10	287.62	21.4	313.09	22.71	316.05	40.91	12.2	10.68	5.37	-2.78	-1.25	-1.52	26.43	9.84	0
2000	362	11	274.94	14.37	297.92	17.3	300.47	29.68	17.12	15.05	6.85	-3.05	-1.31	-1.74	28.19	10.22	0
2000	362	12	273.37	9.45	297.3	12.03	296.4	26.84	21.15	20.17	9.05	-3.03	-1.24	-1.8	29.56	10.41	0
2000	362	13	280.87	10.28	305.61	13.36	306.3	30.71	18.97	17.06	7.41	-3.03	-1.3	-1.73	30.57	10.92	0
2000	362	14	280.13	9.62	305.07	12.75	307.99	30.39	19.95	18.12	8.41	-2.56	-1.25	-1.3	31.01	10.73	0
2000	362	15	283.34	12.14	308.84	14.72	312.58	28.14	16.07	14.19	6.16	-2.37	-1.22	-1.15	30.86	10.65	0
2000	362	16	276.21	13.14	302.79	16.21	296.84	27.31	13.14	11.97	5.77	-1.91	-1.13	-0.79	30.2	9.56	0
2000	362	17	270.26	11.45	294.58	14.99	291.9	30.81	13.26	11.48	5.08	-1.69	-1.12	-0.57	29.59	9.05	0
2000	362	18	267.42	13.66	292.08	17.39	286.54	34.25	11.57	9.81	4.86	-1.73	-1.09	-0.64	29.5	8.54	0
2000	362	19	271.73	14.26	295.44	17.48	286.94	31.94	12.85	10.36	4.92	-1.54	-1.07	-0.47	28.96	8.76	0
2000	362	20	274.04	15.11	299.24	17.1	295.21	34.84	12.38	10.42	5	-1.75	-1.1	-0.64	28.1	8.98	0
2000	362	21	280.18	19.82	305.98	23.51	304.77	41.9	10.83	9.49	4.67	-1.87	-1.1	-0.77	27.43	8.5	0
2000	362	22	282.62	26.64	300	27.94	282.56	55.11	8.61	7.66	4.24	-1.86	-1.08	-0.78	27.03	8.29	0
2000	362	23	285.29	20.78	307.41	27.33	305.12	51.57	13.89	11.44	5.04	-2.03	-1.13	-0.89	26.82	8.43	0
2000	363	0	279.19	13.53	304.74	17.31	302.79	41.39	16.01	13.36	5.62	-2.05	-1.17	-0.88	26.47	8.15	0
2000	363	1	273.75	19.71	295.77	20.47	303.75	60.05	11.14	9.38	4.16	-1.92	-1.12	-0.79	26.11	7.46	0
2000	363	2	285.68	16.38	312.09	21.34	312.93	45.06	12.7	10.72	4.57	-1.99	-1.15	-0.84	25.98	7.84	0
2000	363	3	287.11	19.37	310.61	21.31	312.35	41.24	14.38	11.88	5.65	-2.06	-1.16	-0.9	25.44	8.08	0
2000	363	4	279.61	11.06	301.93	13.53	300.95	27.46	18.71	16.85	7.67	-2.15	-1.21	-0.94	24.52	8.39	0
2000	363	5	276.56	8.79	301.26	11.57	301.98	27.23	19.52	16.97	7.31	-2.1	-1.21	-0.89	23.25	8.56	0
2000	363	6	273.89	9.76	298.24	12.18	296.35	26.3	17.22	14.92	6.97	-1.97	-1.18	-0.79	22.04	8.31	0
2000	363	7	272.41	10.79	297.52	13.52	297.83	28.93	17.92	14.98	6.93	-2	-1.16	-0.84	21.08	7.3	0
2000	363	8	278.91	13.72	305.31	15.83	301.8	28.52	19.95	17.53	8.4	-2.39	-1.27	-1.13	20.61	4.55	0
2000	363	9	274.46	9.86	301.15	13	300.43	30.4	26	23.26	9.9	-2.93	-1.41	-1.52	20.27	3.04	0
2000	363	10	280.15	12.58	306.04	13.95	305.71	29.81	24.46	21.73	10.12	-3.22	-1.39	-1.82	20.44	2.88	0
2000	363	11	287.64	11.82	312.34	14.21	310.75	32.69	21.76	19.53	8.59	-3.16	-1.36	-1.8	21.01	2.86	0
2000	363	12	293.66	13.9	317.11	16.04	315.77	34.48	23.23	20.45	8.89	-3.14	-1.34	-1.81	21.47	3.04	0
2000	363	13	295.37	13.44	321.13	15.05	323.36	29.63	22.86	20.45	8.92	-3.06	-1.32	-1.74	23.06	3.14	0
2000	363	14	302.78	15.74	324.11	16.8	321.11	30.91	19.79	17.64	8.03	-2.92	-1.3	-1.62	24.08	3.89	0
2000	363	15	302.2	12.95	327.91	15.31	325.98	30.78	19.15	17.57	7.49	-2.6	-1.2	-1.4	24.18	4.13	0
2000	363	16	306.26	13.72	332.72	13.52	333.68	23.87	17.79	16.41	8.01	-2.09	-1.11	-0.98	23.46	3.56	0
2000	363	17	312.02	13.3	336.18	15.12	338.86	26.91	17.41	15.44	7.08	-2	-1.11	-0.89	22.56	3.64	0
2000	363	18	323.71	12.37	347.92	14.25	343.82	27.67	15.85	14.14	6.84	-2	-1.13	-0.88	21.44	3.7	0
2000	363	19	327.97	6.41	353.72	11.81	351.15	24.8	15.83	15.55	7.32	-2.09	-1.14	-0.95	20.22	3.46	0
2000	363	20	323.75	6.16	345.32	8.36	338.9	19.79	15.89	14.9	6.74	-2.1	-1.13	-0.98	19.24	3.38	0
2000	363	21	338.82	8.06	3.57	12.39	7.74	22.5	12.34	11.28	6.43	-2.08	-1.18	-0.9	18.43	3.72	0
2000	363	22	330.82	5.01	353.31	10.56	353	22.72	18.03	16.75	7.81	-2.05	-1.13	-0.92	18.25	4.21	0
2000	363	23	328.42	4.36	350.92	7.83	350.82	21.5	17.86	16.54	7.63	-2.07	-1.1	-0.97	17.87	4.23	0
2000	364	0	325.9	5.62	347.94	10	345.46	20.5	17.31	15.97	7.17	-2.13	-1.13	-1	17.77	4.5	0
2000	364	1	331.83	5.15	352.9	11.1	353.18	18.87	17.06	15.73	7.66	-2.12	-1.14	-0.97	17.4	5.14	0
2000	364	2	333.52	7.61	355.1	13.61	0.18	21.69	10.38	9.37	5	-1.95	-1.12	-0.83	16.96	4.84	0
2000	364	3	339.64	6.12	1.28	12.92	6.67	19.5	13.88	12.69	7.04	-2.01	-1.13	-0.87	16.79	4.38	0
2000	364	4	340.52	7.1	3.19	15.62	10.94	18.74	16.46	14.24	7.94	-2.09	-1.17	-0.91	16.37	3.9	0
2000	364	5	339.88	5.43	4.01	13.64	7.99	17.56	19.36	17.63	9.85	-2.16	-1.15	-1.01	15.83	3.37	0
2000	364	6	341.7	7.08	6.37	13.4	10.19	17.38	18.64	16.43	9.07	-2.02	-1.1	-0.92	16.12	3.71	0

2000	364	7	339.87	8.81	1.36	16.15	7.03	21.95	18.14	15.53	8.35	-2.06	-1.13	-0.93	16.3	3.28	0
2000	364	8	338.66	6.01	359.2	15.03	359.88	19.88	19.11	16.92	8.61	-2.23	-1.1	-1.14	16.74	3.55	0
2000	364	9	340.29	8.83	4.98	13.25	4.56	20.22	13.82	12.28	7.47	-2.55	-1.16	-1.4	18.23	3.93	0
2000	364	10	336.46	7.79	3.58	10.66	7.52	19.8	10.7	9.81	6.83	-2.83	-1.22	-1.61	19.81	4.71	0
2000	364	11	339.36	7.81	4.8	11.49	5.03	19.9	11.6	10.71	7	-2.97	-1.27	-1.69	21.76	6	0
2000	364	12	329.31	7.77	351.15	11.67	351.52	20.89	10.32	9.93	5.94	-2.87	-1.18	-1.69	23.73	6.89	0
2000	364	13	340.87	6.28	4.68	10.05	4.49	19.01	12.1	11.13	7.06	-2.98	-1.29	-1.69	25.49	8.16	0
2000	364	14	343.57	9.29	8.22	11.75	9.24	17.58	10.71	10.03	6.78	-2.77	-1.26	-1.51	26.77	8.89	0
2000	364	15	345.41	9.19	11.44	11.3	11.86	17.33	10.14	9.02	6.46	-2.37	-1.22	-1.15	26.71	9.11	0
2000	364	16	335.85	13.13	6	13.02	8.94	18.54	7.97	7.42	4.99	-2.09	-1.13	-0.96	26.34	8.67	0
2000	364	17	352.92	11.08	15	10.73	12.41	17.45	9.81	8.27	5.14	-2.01	-1.14	-0.87	26	8.97	0
2000	364	18	346.55	8.19	8.83	12.32	8.95	18.3	11.42	10.27	6.11	-2.01	-1.11	-0.89	25.64	8.31	0
2000	364	19	345.53	6.98	7.54	13.61	10.06	16.53	14.72	12.64	7.54	-2.12	-1.17	-0.95	25.22	8.26	0
2000	364	20	342.73	7.62	2.72	11.79	9.2	18.77	14.39	13.37	7.34	-2.16	-1.16	-0.99	24.73	8.77	0
2000	364	21	337.13	7.05	357.59	9.44	2.49	19.82	10.3	9.91	5.21	-2.1	-1.13	-0.97	24.17	8.49	0
2000	364	22	349.07	9.85	11.99	12.59	18.15	17.36	12.01	10.39	6.87	-2.12	-1.18	-0.95	23.82	8.91	0
2000	364	23	352.62	14.54	19.5	16.46	26.59	20.33	7.54	6.34	4.28	-1.89	-1.05	-0.84	23.53	8.63	0
2000	365	0	355.94	11.68	27.79	12.35	34.67	17.73	8.69	7.78	5.2	-1.54	-0.91	-0.63	23.24	9.07	0
2000	365	1	355.25	13.88	21.56	9.07	30.41	13.07	13.28	11.39	7.81	-1.36	-0.74	-0.62	23.43	9.49	0
2000	365	2	354.89	12.58	16.66	11.58	20.75	15.33	13.35	11.39	7.82	-1.93	-1.06	-0.87	24.02	9.59	0
2000	365	3	345.96	9.06	4.3	12.27	12.37	20.25	13.21	11.18	6.05	-1.99	-1.05	-0.94	23.77	9.95	0
2000	365	4	349.25	13.49	12.01	16.42	15.96	21.51	10.96	9.26	5.94	-2.09	-1.12	-0.98	23.54	9.93	0
2000	365	5	355.3	13.73	15.68	12.9	18.52	18.22	10.52	9.11	6.39	-1.92	-1.01	-0.91	23.12	11.44	0
2000	365	6	341.78	7.73	1.15	11.74	6.94	19.98	15.51	12.39	6.89	-1.52	-0.81	-0.71	21.83	15.57	0.05
2000	365	7	345.17	6.94	5.38	14.25	10.29	16.68	22.68	18.53	10.05	-1.34	-0.63	-0.71	22.19	16.51	0.04
2000	365	8	344.03	8.45	5.73	12.69	13.89	18.58	24.37	22.13	12.39	-1.81	-1.13	-0.68	21.95	16.07	0.03
2000	365	9	343.15	7.44	4	18.18	15.96	17.86	25.61	22.27	12.74	-1.82	-1.19	-0.63	22.07	16.27	0.05
2000	365	10	342.94	7.33	3.08	13.46	13.64	18.22	25.66	23.05	12.25	-1.9	-1.15	-0.74	22.7	17.23	0.06
2000	365	11	339.96	6.47	1.03	13.1	8.43	19.87	22.6	19.26	9.87	-1.65	-0.91	-0.74	22.71	17.03	0.07
2000	365	12	335.49	6.18	354.19	13.53	1.79	23.91	27.73	23.77	10.99	-0.88	-0.31	-0.57	23.38	17.9	0.12
2000	365	13	325	7.54	344.44	13.51	3.27	28.75	32.04	25.28	10.11	-0.46	0.04	-0.5	25	19.2	0.1
2000	365	14	316.83	9.2	342.16	14.03	5.94	31.11	22.2	18.31	8.13	-1.57	-0.89	-0.67	25	19.16	0.06
2000	365	15	319.6	9.68	344.72	13.15	3.24	30.93	23.21	19.18	7.87	-1.34	-0.84	-0.51	26.29	20.27	0.03
2000	365	16	319.79	9.1	342.32	11.61	344.3	26.14	27.07	23.72	9.62	-1.21	-0.86	-0.35	27.94	22.17	0.04
2000	365	17	315.78	8.66	340.68	10.88	343.38	23.72	24.01	20.93	8.48	-1.4	-0.87	-0.53	29.43	23.08	0.01
2000	365	18	310.68	13.27	339.45	15.17	343.76	28.24	16.69	14.14	6.47	-1.63	-0.88	-0.74	29.89	23.2	0.01
2000	365	19	280.93	11.9	306.17	14.59	301.79	40.77	18.7	15.75	6.03	-1.97	-1	-0.97	28.46	19.65	0
2000	365	20	276.94	9.27	301.41	13.69	296.8	41.06	23.75	18.74	7.23	-2	-1.07	-0.93	27.85	17.96	0
2000	365	21	271.61	7.47	296.36	12.28	291.24	48.98	25.96	21.01	7.94	-1.88	-1.07	-0.81	27.12	16.65	0
2000	365	22	266.07	6.14	291.73	8.38	290.82	25.55	29.56	25.26	10.17	-1.87	-1.07	-0.8	26.58	16.23	0
2000	365	23	261.58	6.87	286.77	9.1	283.47	26.1	28.54	24.25	9.99	-1.73	-1.02	-0.72	25.66	16.89	0
2000	366	0	262.45	6.75	287.55	8.89	285.89	25.07	29.73	26.02	10.71	-1.78	-1.05	-0.73	25.56	15.85	0
2000	366	1	260.17	5.77	284.33	8.04	286.91	24.21	34.47	31.38	13.08	-1.85	-1.14	-0.71	25.53	13.79	0
2000	366	2	256.42	9.33	280.36	11.96	283.21	23.81	26.02	23.56	10.44	-1.86	-1.12	-0.75	25.37	11.99	0
2000	366	3	262.9	10.85	285.68	13.32	287.26	24.84	23.66	21.06	9.64	-1.82	-1.06	-0.76	25.63	11.59	0
2000	366	4	262.67	10.07	287.05	12.12	288.1	23.95	24.41	21.52	9.95	-1.7	-1.02	-0.68	25.91	11.73	0
2000	366	5	253.8	10.35	277.4	12.37	282.16	24.93	20.63	18.46	8.7	-1.61	-0.96	-0.64	25.47	11.82	0
2000	366	6	265.92	17.84	290.91	20.29	295.38	39.90	16.29	13.33	6.42	-1.68	-1.01	-0.67	26.13	11.52	0
2000	366	7	259.2	23.38	279.73	27.46	268.97	45.53	14.08	11.39	5.74	-1.74	-1.04	-0.7	26.35	10.91	0

2000	366	8	254.93	18.59	275.61	21.97	275.29	37.37	13.32	11.75	5.8	-1.96	-1.14	-0.83	25.35	10.86	0
2000	366	9	255.95	11.84	279.54	14.48	283	26.69	20.2	18.04	8.32	-2.07	-1.2	-0.87	25.32	10.54	0
2000	366	10	264.05	13.03	288.98	16.16	291.05	29.58	21.76	19	8.53	-2.35	-1.27	-1.07	26.65	10.44	0
2000	366	11	270.93	11.48	296.55	13.36	294.38	25.01	26.12	23.66	10.43	-2.32	-1.29	-1.03	26.52	8.93	0
2000	366	12	267.36	11.12	291.64	13.78	292.08	26.83	22.84	20.87	9.4	-2.44	-1.26	-1.18	26.8	8.95	0
2000	366	13	265.33	10.62	291.15	13.73	293.46	27.95	22.76	20.97	9.27	-2.5	-1.3	-1.2	27.46	9.14	0
2000	366	14	262.75	11.11	286.24	14.11	290.56	26.77	19.65	18.23	8.5	-2.44	-1.3	-1.13	27.66	9.19	0
2000	366	15	267.54	12.06	293.16	15.18	294.91	27.37	19.76	17.25	7.83	-2	-1.13	-0.87	27.32	8.63	0
2000	366	16	267.4	14.24	291.02	17.30	296.28	31.30	16.61	14.84	6.83	-1.69	-1.03	-0.66	26.22	7.8	0
2000	366	17	283.21	15.47	310.18	17.32	306.36	35.15	19.52	17.39	7.97	-1.58	-1.02	-0.57	25.51	6.92	0
2000	366	18	273.91	17.23	297.86	20.52	298.79	40.84	16.89	14	6.4	-1.66	-1.03	-0.63	25.2	7.53	0
2000	366	19	297.19	19.22	323.45	19.10	330.22	34.39	15.2	13.36	7.05	-1.76	-1.07	-0.69	25.03	8.34	0
2000	366	20	290.25	14.74	311.9	15.03	309.91	30.55	18.09	15.48	7.03	-1.74	-1.08	-0.67	25.11	8.21	0
2000	366	21	286.95	14.08	311.03	15.31	308.8	32.60	19.45	17.06	7.57	-1.76	-1.08	-0.68	25.06	8.06	0
2000	366	22	289.41	17.78	316.46	19.46	316.29	35.47	15.78	13.56	6.05	-1.72	-1.07	-0.65	25.02	7.95	0
2000	366	23	293.46	21.23	319.7	22.50	325.11	38.98	14.79	12.64	6.18	-1.66	-1.04	-0.62	24.8	7.43	0

89			Data Replacemen			0	0	0	0
missing needed data	Check	Data Adjustments	Year	Day	Hour	WD-10 (from)	WS-10	DT U/L	PRECIP
			2000	1	0	31.9	2.32	2.96	0
			2000	1	1	29.66	2.81	2.18	0
			2000	1	2	32.77	4.49	3	0
			2000	1	3	96.43	3.19	2.45	0
			2000	1	4	187.2	1.7	0.08	0
			2000	1	5	175.63	1.8	0.62	0
			2000	1	6	77.97	1.85	-0.74	0
			2000	1	7	218.1	1.45	-0.75	0
			2000	1	8	196.86	3.08	-1.26	0
			2000	1	9	202.17	4.32	-1.16	0
			2000	1	10	202.34	3.57	-1.11	0
			2000	1	11	183.4	3.1	-1.16	0
			2000	1	12	164.35	2.53	-1.4	0
			2000	1	13	300.35	2.27	-1.69	0
			2000	1	14	261.9	2.72	-0.67	0
			2000	1	15	246.98	1.6	0.29	0
			2000	1	16	286.28	1.45	1.77	0
			2000	1	17	204.08	1.6	3.96	0
			2000	1	18	310.33	1.73	4.84	0
			2000	1	19	348.35	2.06	5.45	0
			2000	1	20	359.94	2.7	5.88	0
			2000	1	21	9.81	3.26	7.26	0
			2000	1	22	13.56	3.61	6.78	0
			2000	1	23	46.79	2.66	6.17	0
			2000	2	0	23.84	3.26	5.78	0
			2000	2	1	25.31	2.72	4.31	0
			2000	2	2	45.45	1.83	3.67	0
			2000	2	3	95.07	1.04	3.28	0
			2000	2	4	16	1.06	5.57	0
			2000	2	5	22.82	1.06	2.86	0
			2000	2	6	3.68	1.27	4.7	0
			2000	2	7	121.78	1.2	1.37	0
			2000	2	8	32.8	2.33	2.93	0
			2000	2	9	189.69	2.8	0.86	0
			2000	2	10	176.65	2.19	0.85	0
			2000	2	11	210.97	2.52	-0.28	0
			2000	2	12	232.06	2.94	-0.53	0
			2000	2	13	226.42	3.69	1.58	0
			2000	2	14	171.34	4.42	-0.05	0
			2000	2	15	166.86	5.54	-0.02	0
			2000	2	16	167.5	3.63	0.8	0
			2000	2	17	202.79	2.4	1.43	0
			2000	2	18	190.12	2.91	3.3	0
			2000	2	19	179.05	2.8	3.3	0
			2000	2	20	279.5	2.15	4.72	0
			2000	2	21	126.36	2.1	4.82	0

2000	2	22	162.96	4.63	0.98	0
2000	2	23	172.88	7.93	1.61	0
2000	3	0	171.64	8.06	-0.03	0
2000	3	1	159.96	5.59	-0.04	0
2000	3	2	166.46	7.36	-0.14	0
2000	3	3	154.5	5.12	-0.11	0
2000	3	4	151.76	4.88	0.13	0
2000	3	5	152.14	3.06	0.73	0
2000	3	6	169.43	3.56	1.09	0
2000	3	7	200.1	2.76	1.8	0
2000	3	8	179.06	3.8	2.8	0
2000	3	9	170.53	2.88	1.29	0
2000	3	10	181.1	2.56	0.73	0
2000	3	11	219.38	3.1	-0.46	0
2000	3	12	195.21	3.48	-0.63	0
2000	3	13	303.64	2.31	0.62	0
2000	3	14	13.23	2.67	-0.28	0
2000	3	15	228.19	1.84	-0.13	0
2000	3	16	103.41	1.56	-0.04	0
2000	3	17	26.96	3.3	0.94	0
2000	3	18	16	2.72	1.38	0
2000	3	19	38.67	2.03	1.06	0
2000	3	20	357.23	2.01	0.98	0
2000	3	21	116.33	1.96	0.18	0
2000	3	22	21.45	1.88	-0.04	0
2000	3	23	171.92	2.92	0.12	0
2000	4	0	178.66	2.18	0.5	0
2000	4	1	177.18	1.96	0.1	0
2000	4	2	230.72	2.09	0.38	0
2000	4	3	214.57	1.37	-0.43	0
2000	4	4	225.84	1.21	-0.79	0
2000	4	5	242.13	1.22	-0.59	0
2000	4	6	153.28	1.34	-0.82	0
2000	4	7	192.9	1.93	0.36	0
2000	4	8	186.74	3.67	1.16	0
2000	4	9	182.9	5.78	1.17	0
2000	4	10	190.75	5.04	1.17	0
2000	4	11	164.3	7.48	-0.14	0
2000	4	12	155.71	7.86	-0.33	0
2000	4	13	158.67	6.95	0.22	0
2000	4	14	155.51	5.49	1.46	0
2000	4	15	157.96	5.29	2.45	0
2000	4	16	156.67	6.46	1.9	0
2000	4	17	207.54	6.58	0.19	0.17
2000	4	18	313.98	6.94	-1.32	0.04
2000	4	19	358.58	4.24	-1.03	0.03
2000	4	20	237.78	3.27	-0.91	0.07
2000	4	21	217.27	3.04	-0.54	0.02
2000	4	22	289.1	6.26	-0.81	0.04

2000	4	23	321.07	5.14	-1.19	0.01
2000	5	0	338.45	6.48	-1.66	0
2000	5	1	323.55	7.81	-1.88	0
2000	5	2	306.85	7.63	-1.89	0
2000	5	3	324.7	7.02	-1.86	0
2000	5	4	318.64	8.06	-2.02	0
2000	5	5	308.7	8.33	-2.07	0
2000	5	6	313.41	7.3	-1.95	0
2000	5	7	310.99	7.27	-1.9	0
2000	5	8	317.97	8	-2.2	0
2000	5	9	321.13	9.95	-2.5	0
2000	5	10	322.17	9.51	-2.61	0
2000	5	11	320.97	10.51	-2.85	0
2000	5	12	328.56	9.91	-2.84	0
2000	5	13	317.74	10.04	-2.98	0
2000	5	14	314.41	8.34	-2.9	0
2000	5	15	313.8	9.5	-2.6	0
2000	5	16	336.86	7.9	-2	0
2000	5	17	322.22	6.73	-1.82	0
2000	5	18	322.52	5.29	-1.79	0
2000	5	19	326.63	5.98	-1.9	0
2000	5	20	318.15	4.52	-1.77	0
2000	5	21	316.53	4.42	-1.69	0
2000	5	22	335.01	4.21	-1.82	0
2000	5	23	18.76	4.19	-1.6	0
2000	6	0	19.38	5.72	-1.65	0
2000	6	1	32.77	3.12	-1.36	0
2000	6	2	72	2.96	-0.8	0
2000	6	3	29.32	3.33	-0.62	0
2000	6	4	23.73	3.29	0.13	0
2000	6	5	40.17	3.13	0.36	0
2000	6	6	54.4	3.31	0.2	0
2000	6	7	27.57	2.48	-0.29	0
2000	6	8	42.89	3.47	-0.47	0
2000	6	9	144	2.35	-2	0
2000	6	10	255.74	3.19	-1.88	0
2000	6	11	180.09	4.88	-2.45	0
2000	6	12	166.57	7.06	-3	0
2000	6	13	158.49	5.93	-2.94	0
2000	6	14	157.65	7.01	-2.74	0
2000	6	15	159.93	7.18	-2.34	0
2000	6	16	160.85	6.46	-1.38	0
2000	6	17	163.23	5.22	-0.86	0
2000	6	18	171.84	2.45	-0.39	0
2000	6	19	29.02	1.53	0.32	0
2000	6	20	163.43	1.43	1.86	0
2000	6	21	56.01	1.99	3.37	0
2000	6	22	38.19	2.01	3.02	0
2000	6	23	8.23	1.9	1.91	0

2000	7	0	8.73	2.04	2.24	0
2000	7	1	4.19	2.45	1.92	0
2000	7	2	9.75	1.54	1.99	0
2000	7	3	356.31	1.24	1.8	0
2000	7	4	91.05	1.07	1.75	0
2000	7	5	12.42	1.2	1.48	0
2000	7	6	10.04	1.56	1.56	0
2000	7	7	359.6	1.22	0.79	0
2000	7	8	32.78	0.84	0.07	0
2000	7	9	326.6	0.84	-0.47	0
2000	7	10	196.71	2.6	-1.36	0
2000	7	11	137.35	1.98	-1.78	0
2000	7	12	222.1	3	-1.54	0
2000	7	13	190.27	3.85	-1.98	0
2000	7	14	230.16	4.31	-0.59	0
2000	7	15	285.36	11.52	-1.98	0
2000	7	16	286.47	11.54	-1.74	0
2000	7	17	301.09	8.64	-1.92	0
2000	7	18	298.87	7.76	-1.75	0
2000	7	19	296.29	6.26	-1.66	0
2000	7	20	289.69	4.59	-1.59	0
2000	7	21	313.51	4.1	-1.59	0
2000	7	22	300.99	7.11	-1.76	0
2000	7	23	314.45	7.17	-1.84	0
2000	8	0	310.08	4.9	-1.68	0
2000	8	1	281.48	5.2	-1.58	0
2000	8	2	288.04	5.84	-1.68	0
2000	8	3	294.56	4.99	-1.58	0
2000	8	4	312.59	5.99	-1.73	0
2000	8	5	313.5	6.06	-1.84	0
2000	8	6	301.8	6.06	-1.83	0
2000	8	7	281.44	5.32	-1.67	0
2000	8	8	288.7	5.66	-2.03	0
2000	8	9	299.65	5.63	-2.65	0
2000	8	10	296.12	5.28	-2.82	0
2000	8	11	291.88	4.28	-2.87	0
2000	8	12	247.5	5.3	-3	0
2000	8	13	230.47	4.53	-2.55	0
2000	8	14	182.63	4.85	-2.6	0
2000	8	15	181.91	6.26	-2.41	0
2000	8	16	186.24	7.29	-1.47	0
2000	8	17	184.25	7.67	-1.21	0
2000	8	18	181.08	5.73	-0.97	0
2000	8	19	172.24	4.66	-0.91	0
2000	8	20	179.48	5.08	-1.08	0
2000	8	21	182.54	4	-1.18	0
2000	8	22	206.58	2.69	-0.63	0
2000	8	23	198.37	2.79	0.79	0
2000	9	0	190.06	3.46	0.39	0

2000	9	1	193.76	3.24	-0.78	0
2000	9	2	186.69	3.01	-0.44	0
2000	9	3	184.47	3.83	-1.03	0
2000	9	4	206.92	1.76	-0.97	0
2000	9	5	305.85	1.66	-0.51	0
2000	9	6	287.55	1.23	0.04	0
2000	9	7	352.32	1.57	-0.28	0
2000	9	8	26.88	1.98	-0.32	0
2000	9	9	337.04	1.88	-1.48	0
2000	9	10	181.52	4.27	-2.19	0
2000	9	11	192.08	3.67	-2.11	0
2000	9	12	275.16	2.61	-0.4	0
2000	9	13	289.6	3.24	-0.79	0
2000	9	14	185.84	3.97	-0.82	0
2000	9	15	159.32	3.08	-1.99	0
2000	9	16	154.77	3.62	-0.03	0
2000	9	17	159.48	2.97	0.01	0
2000	9	18	288.54	1.81	0.16	0
2000	9	19	283.56	1.79	0.57	0
2000	9	20	82.5	1.99	0.64	0
2000	9	21	12.8	1.63	-0.14	0
2000	9	22	24.63	3.62	-0.07	0.03
2000	9	23	179.08	1.87	-0.19	0
2000	10	0	82.09	1.8	0	0
2000	10	1	14.5	1.72	0.11	0
2000	10	2	37.73	1.93	-0.17	0
2000	10	3	11.75	2.44	0.28	0
2000	10	4	19.96	2.31	-0.1	0
2000	10	5	3.31	1.85	-0.78	0
2000	10	6	18.91	2.77	-0.99	0
2000	10	7	112.58	1.76	-1.19	0
2000	10	8	97.61	2.17	-1.45	0
2000	10	9	111.71	2.31	-1.54	0
2000	10	10	129.21	2.89	-1.43	0
2000	10	11	109.58	2.63	-1.46	0
2000	10	12	103.71	3.93	-1.27	0
2000	10	13	96.39	2.78	-1.17	0.16
2000	10	14	97.4	6.11	-1.26	0.26
2000	10	15	92.69	4.33	-1.18	0.33
2000	10	16	327.62	3.43	-0.27	0.1
2000	10	17	269.86	5.38	1.07	0.03
2000	10	18	279.86	7.58	-1.25	0
2000	10	19	231.21	4.47	-1.02	0
2000	10	20	216.45	5.64	-0.62	0
2000	10	21	231.09	7.58	-0.92	0
2000	10	22	259.17	11.13	-1.27	0
2000	10	23	255.66	8.34	-1.15	0
2000	11	0	224.33	6.94	-0.93	0
2000	11	1	193.53	9.4	-0.53	0

2000	11	2	186.42	8.81	-0.87	0
2000	11	3	180.71	8.29	-0.58	0
2000	11	4	169.37	6.21	-0.42	0
2000	11	5	170.55	6.36	-0.25	0
2000	11	6	172.3	4.64	-0.25	0
2000	11	7	167.8	3.37	0.22	0
2000	11	8	185.9	2.49	0.06	0
2000	11	9	179.47	2.49	-1.09	0
2000	11	10	197.01	8.52	-1.96	0
2000	11	11	216.94	11.47	-1.95	0
2000	11	12	244.96	10.75	-1.86	0
2000	11	13	257.41	8.51	-1.85	0
2000	11	14	270.9	9.34	-1.94	0
2000	11	15	294.74	7.28	-1.91	0
2000	11	16	272.71	5.86	-1.32	0
2000	11	17	270.23	5.84	-1.16	0
2000	11	18	306.34	9.93	-1.65	0
2000	11	19	292.17	10.52	-1.65	0
2000	11	20	284.84	7.8	-1.51	0
2000	11	21	279.22	7.77	-1.6	0
2000	11	22	237.84	4.41	-1.43	0
2000	11	23	260.33	4.8	-1.5	0
2000	12	0	281.87	7.26	-1.67	0
2000	12	1	297.3	8.66	-1.8	0
2000	12	2	303.5	10.51	-1.91	0
2000	12	3	300.71	10.04	-1.92	0
2000	12	4	305.47	9.2	-1.98	0
2000	12	5	307.93	12.83	-1.96	0
2000	12	6	311.46	9.97	-1.89	0
2000	12	7	306.51	6.38	-1.78	0
2000	12	8	316.45	6.43	-2.01	0
2000	12	9	312.51	8.47	-2.28	0
2000	12	10	309.48	11.67	-2.55	0
2000	12	11	309.01	11.33	-2.66	0
2000	12	12	312.12	9.04	-2.79	0
2000	12	13	309.02	8.84	-2.78	0
2000	12	14	319.58	7.13	-2.63	0
2000	12	15	313.12	5.54	-2.38	0
2000	12	16	323.72	4.89	-1.81	0
2000	12	17	329.29	3.75	-1.4	0
2000	12	18	341.59	4.11	-1.07	0
2000	12	19	356.69	4.84	-1.37	0
2000	12	20	335.56	3.62	-1.34	0
2000	12	21	313.75	2.13	-1.01	0
2000	12	22	278.45	2.17	-0.94	0
2000	12	23	281.83	2.44	-1.31	0
2000	13	0	239.71	2.84	-1.42	0
2000	13	1	324.36	4.26	-1.72	0
2000	13	2	14.08	3.64	-1.82	0

2000	13	3	32.74	4.63	-1.75	0
2000	13	4	40.78	3.6	-1.9	0
2000	13	5	87.45	2.43	-1.73	0
2000	13	6	60.38	3.75	-1.93	0
2000	13	7	30.92	6.35	-2.08	0
2000	13	8	34.35	4.85	-1.84	0
2000	13	9	30.7	4.73	-1.54	0
2000	13	10	18.61	5.1	-1.76	0
2000	13	11	13.25	5.48	-1.84	0
2000	13	12	4.52	6.06	-2.12	0
2000	13	13	2.46	8.85	-2.1	0.01
2000	13	14	6.45	11.45	-1.49	0.01
2000	13	15	9.07	13.9	-1.86	0
2000	13	16	5.11	10.6	-2	0
2000	13	17	346.43	7.36	-1.98	0
2000	13	18	340.43	7.14	-1.75	0
2000	13	19	327.12	7.84	-1.94	0
2000	13	20	315.06	8.68	-2.05	0
2000	13	21	322.06	11.54	-2.17	0
2000	13	22	322.54	11.96	-2.21	0
2000	13	23	326.01	12.17	-2.16	0
2000	14	0	325.69	10.51	-2.21	0
2000	14	1	325.83	10.29	-2.12	0
2000	14	2	324.48	10.37	-2.15	0
2000	14	3	322.03	10.91	-2.15	0
2000	14	4	333.43	10.75	-2.03	0
2000	14	5	330.38	10.09	-2.06	0
2000	14	6	334.5	9.51	-2	0
2000	14	7	339.08	9.94	-2	0
2000	14	8	339.49	10.83	-2.23	0
2000	14	9	345.49	12.07	-2.46	0
2000	14	10	344.98	12.19	-2.66	0
2000	14	11	324.7	10.97	-2.88	0
2000	14	12	313.61	9.05	-3	0
2000	14	13	314.98	13.92	-2.74	0
2000	14	14	312.71	12.32	-2.65	0
2000	14	15	312.19	10.27	-2.47	0
2000	14	16	322.71	8.44	-2.11	0
2000	14	17	324.74	9.01	-1.97	0
2000	14	18	330.76	7.4	-1.9	0
2000	14	19	324.92	7.08	-1.91	0
2000	14	20	334.41	6.97	-1.87	0
2000	14	21	320.65	5.78	-1.83	0
2000	14	22	323.46	5.5	-1.83	0
2000	14	23	338.37	7.02	-1.81	0
2000	15	0	336.46	7.45	-1.84	0
2000	15	1	339.24	8.13	-1.84	0
2000	15	2	333.84	9.41	-2.03	0
2000	15	3	324.85	8.49	-1.97	0

2000	15	4	321.7	8.34	-1.98	0
2000	15	5	343.25	6.75	-1.82	0
2000	15	6	49.09	5.23	-1.4	0
2000	15	7	42.92	4.67	-1.2	0
2000	15	8	36.24	5.82	-1.9	0
2000	15	9	35.53	5.26	-2	0
2000	15	10	34.06	2.72	-1.98	0
2000	15	11	201.94	3.34	-2.26	0
2000	15	12	201.23	3.98	-2.4	0
2000	15	13	188.35	4.37	-2.46	0
2000	15	14	177.72	2.86	-2.19	0
2000	15	15	204.33	3.54	-2.21	0
2000	15	16	183.09	1.92	-1.88	0
2000	15	17	128.78	1.26	-1.26	0
2000	15	18	139.64	1.8	-0.5	0
2000	15	19	122.03	1.94	-0.46	0
2000	15	20	119.39	1.99	-0.6	0
2000	15	21	191.69	1.85	-0.77	0
2000	15	22	192.03	2.17	-0.47	0
2000	15	23	161.42	3.13	-0.76	0
2000	16	0	169.27	3.12	-0.79	0
2000	16	1	169.85	4.41	-1.17	0
2000	16	2	190.43	6.43	-1.17	0
2000	16	3	179.77	6.51	-0.74	0
2000	16	4	183.73	7.66	-1.02	0
2000	16	5	187.89	7.66	-1.19	0
2000	16	6	199.39	5.34	-0.22	0
2000	16	7	194.54	7.29	-0.37	0
2000	16	8	183.05	10.29	-1.57	0
2000	16	9	185.47	9.24	-1.69	0
2000	16	10	190.83	7.97	-1.94	0
2000	16	11	171.37	8.43	-2.62	0
2000	16	12	178.6	6.66	-1.82	0
2000	16	13	247.26	5.83	-1.91	0
2000	16	14	288.73	8.02	-2.04	0
2000	16	15	296.04	9.82	-1.96	0
2000	16	16	311.68	14.41	-1.86	0
2000	16	17	309.5	13.67	-1.82	0
2000	16	18	314.13	14.5	-1.86	0
2000	16	19	310.88	12.61	-2.05	0
2000	16	20	305.86	11.76	-2.08	0
2000	16	21	325.23	12.62	-2.06	0
2000	16	22	335.6	16.21	-2.02	0
2000	16	23	326.68	14.44	-2.13	0
2000	17	0	326.58	14.78	-2.12	0
2000	17	1	329.19	14.16	-2.1	0
2000	17	2	332.33	13.22	-2.08	0
2000	17	3	332.7	13.74	-2.09	0
2000	17	4	328.94	12.44	-2.11	0

2000	17	5	330.11	12.44	-2.15	0
2000	17	6	323.1	13.48	-2.36	0
2000	17	7	321.02	13.78	-2.55	0
2000	17	8	325.74	13.56	-2.79	0
2000	17	9	334.84	9.75	-2.72	0
2000	17	10	347.37	10.12	-2.87	0
2000	17	11	359.24	13.06	-3.01	0
2000	17	12	357.84	15.23	-3.05	0
2000	17	13	353.52	13.64	-3.06	0
2000	17	14	7.68	12.84	-3.02	0
2000	17	15	7.82	12	-2.94	0
2000	17	16	1.09	11.41	-2.36	0
2000	17	17	350.89	11.31	-2.11	0
2000	17	18	356.03	9.92	-2.16	0
2000	17	19	335.41	7.6	-2.08	0
2000	17	20	335.67	7.25	-2.12	0
2000	17	21	341.74	7.21	-2.07	0
2000	17	22	343.16	8.79	-2.33	0
2000	17	23	342	7.73	-2.3	0
2000	18	0	2.04	7.6	-2.27	0
2000	18	1	6.19	8.45	-2.16	0
2000	18	2	10.67	7.55	-2.21	0
2000	18	3	12.37	8.93	-2.24	0
2000	18	4	5.15	9.27	-2.25	0
2000	18	5	356.62	10.06	-2.38	0
2000	18	6	358.4	9.37	-2.21	0
2000	18	7	352.17	8.84	-2.34	0
2000	18	8	358.62	12.38	-2.63	0
2000	18	9	8.2	10.11	-2.91	0
2000	18	10	7.56	10.48	-2.89	0
2000	18	11	8.42	9.72	-2.91	0
2000	18	12	14.58	9.49	-3.02	0
2000	18	13	10.54	9.95	-2.91	0
2000	18	14	7.81	7.42	-2.65	0
2000	18	15	7.5	7.68	-2.51	0
2000	18	16	4.55	6.59	-2.25	0
2000	18	17	1.36	7.29	-2.19	0
2000	18	18	4	7.3	-2.22	0
2000	18	19	358.82	7.32	-2.28	0
2000	18	20	354.5	5.73	-2.19	0
2000	18	21	351.72	6.61	-2.19	0
2000	18	22	348.46	5.88	-2.12	0
2000	18	23	354.04	5.69	-2.04	0
2000	19	0	352.33	5.8	-1.95	0
2000	19	1	11.84	5.87	-1.79	0
2000	19	2	2.28	7.29	-1.99	0
2000	19	3	1.82	5.68	-2.02	0
2000	19	4	2.89	5.96	-2.07	0
2000	19	5	354.89	8.17	-2.11	0

2000	19	6	2.36	7.75	-2.17	0
2000	19	7	4.09	9.07	-2.17	0
2000	19	8	4.63	9.28	-2.13	0
2000	19	9	25.25	7.47	-2.27	0
2000	19	10	16.08	6.88	-2.63	0
2000	19	11	13.75	6.1	-2.65	0
2000	19	12	5.14	5.68	-2.57	0
2000	19	13	9.53	4.63	-2.39	0
2000	19	14	0.21	4.74	-2.45	0
2000	19	15	320.38	4.74	-2.42	0
2000	19	16	276.31	5.85	-2.06	0
2000	19	17	278.08	5.05	-1.63	0
2000	19	18	307.05	4.42	-1.63	0
2000	19	19	346.16	2.81	-1.14	0
2000	19	20	354.67	2.9	-0.79	0
2000	19	21	47.42	2.72	0.83	0
2000	19	22	6.52	2.4	1.8	0
2000	19	23	36.45	3.66	2.35	0
2000	20	0	33.67	2.54	2.48	0
2000	20	1	39.97	2.41	1.33	0
2000	20	2	26.41	3.45	1.29	0
2000	20	3	21.85	3.78	1.09	0
2000	20	4	33.06	3.76	0.45	0
2000	20	5	31.02	3.97	-0.34	0
2000	20	6	26.38	3.57	-0.75	0
2000	20	7	29.07	3.76	-1.19	0
2000	20	8	10.65	2.73	-1.47	0
2000	20	9	21.59	4.24	-1.54	0.01
2000	20	10	19.81	4.68	-1.55	0.01
2000	20	11	25.55	6.24	-1.8	0
2000	20	12	31.41	7	-1.86	0
2000	20	13	22.92	7.35	-1.9	0
2000	20	14	27.1	7.38	-1.79	0
2000	20	15	8.1	5.34	-1.7	0
2000	20	16	6.06	5.38	-1.77	0
2000	20	17	5.88	5.54	-1.8	0
2000	20	18	5.32	6.51	-1.81	0
2000	20	19	353.09	6.94	-1.87	0
2000	20	20	4.62	8.62	-1.89	0
2000	20	21	356.2	6.9	-1.81	0
2000	20	22	5.5	7.1	-1.82	0
2000	20	23	343.7	6.21	-1.84	0
2000	21	0	330.86	7.81	-1.87	0
2000	21	1	322.1	8.73	-1.77	0
2000	21	2	316.86	11.42	-1.87	0
2000	21	3	318.18	12.4	-2.07	0
2000	21	4	315.11	13.17	-2.07	0
2000	21	5	322.54	12.56	-2.02	0
2000	21	6	323.26	11.81	-2.01	0

2000	21	7	323.77	10.67	-2	0
2000	21	8	318.3	11.21	-2.29	0
2000	21	9	321.86	9.56	-2.51	0
2000	21	10	325.18	8.67	-2.7	0
2000	21	11	314.98	13.88	-2.82	0
2000	21	12	318.18	13.6	-2.79	0
2000	21	13	311.83	13.32	-2.89	0
2000	21	14	312.84	11.91	-2.75	0
2000	21	15	307.77	13.08	-2.59	0
2000	21	16	314.6	12.34	-2.26	0
2000	21	17	307.27	11.92	-2.14	0
2000	21	18	311.95	11.24	-2.03	0
2000	21	19	316.59	10.42	-2	0
2000	21	20	317.9	9.83	-1.94	0
2000	21	21	318.94	10.43	-2.04	0
2000	21	22	314.93	9.72	-2.21	0
2000	21	23	314.95	8.08	-2.05	0
2000	22	0	316.08	6.29	-1.82	0
2000	22	1	312.87	6.16	-1.75	0
2000	22	2	303.26	5.97	-1.74	0
2000	22	3	281.07	5.68	-1.73	0
2000	22	4	275.2	6.15	-1.81	0
2000	22	5	283.91	6.56	-1.76	0
2000	22	6	289.72	5.18	-1.76	0
2000	22	7	292.92	5.79	-1.79	0
2000	22	8	300.93	7.28	-2.18	0
2000	22	9	322.44	6.96	-2.31	0
2000	22	10	320.57	9.23	-2.55	0
2000	22	11	305.04	9.01	-3.07	0
2000	22	12	312.04	9.66	-2.99	0
2000	22	13	309.89	8.78	-3.07	0
2000	22	14	304.27	8.86	-2.86	0
2000	22	15	295	7.06	-2.69	0
2000	22	16	280.59	6.87	-2.12	0
2000	22	17	292.53	5.64	-1.78	0
2000	22	18	324.86	5.59	-1.78	0
2000	22	19	327.66	4.88	-1.78	0
2000	22	20	295.75	3.22	-1.69	0
2000	22	21	247.24	3.01	-1.78	0
2000	22	22	243.52	3.44	-1.81	0
2000	22	23	235.35	2.5	-1.64	0
2000	23	0	263.68	2.93	-1.65	0
2000	23	1	227.78	2.95	-1.6	0
2000	23	2	192.51	3.09	-1.43	0
2000	23	3	237.7	1.48	-1.39	0
2000	23	4	34.38	3.28	0.05	0
2000	23	5	33.99	5	1.42	0
2000	23	6	31.13	5.24	1.66	0
2000	23	7	32.14	6.87	0.87	0

2000	23	8	38.63	5.73	0.21	0
2000	23	9	45.2	4.25	-0.95	0
2000	23	10	13.96	2.05	-1.54	0
2000	23	11	358.22	2.02	-1.77	0
2000	23	12	12.9	2.66	-1.88	0
2000	23	13	274.48	3.18	-2.03	0
2000	23	14	252.91	3.07	-2.02	0
2000	23	15	199.77	3.48	-2.04	0
2000	23	16	169.74	3.34	-1.93	0
2000	23	17	131	2.72	-1.87	0
2000	23	18	94.15	2.53	-1.87	0
2000	23	19	114.05	1.87	-1.85	0
2000	23	20	63.52	1.45	-1.88	0
2000	23	21	67.61	1.89	-1.79	0
2000	23	22	37.24	2.51	-1.81	0
2000	23	23	32.15	3.86	-1.78	0
2000	24	0	32.3	4.47	-1.7	0
2000	24	1	44.87	3.84	-1.6	0
2000	24	2	38.56	4.08	-1.8	0
2000	24	3	26.53	3.91	-1.62	0
2000	24	4	6.89	5.03	-1.88	0
2000	24	5	9.92	4.68	-1.54	0
2000	24	6	62.86	2.86	-1.06	0
2000	24	7	67.3	2.21	-1.45	0
2000	24	8	172.43	2.19	-1.52	0
2000	24	9	176.58	2.09	-1.86	0
2000	24	10	181.39	2.67	-1.98	0
2000	24	11	175.35	2.27	-2.03	0
2000	24	12	213.76	3.23	-1.74	0
2000	24	13	227.11	3.2	-1.14	0
2000	24	14	190.7	2.98	-1.57	0
2000	24	15	272.35	1.98	-1.85	0
2000	24	16	301.88	1.66	-0.83	0
2000	24	17	13.16	2.8	-0.61	0
2000	24	18	29.54	4.58	1.07	0
2000	24	19	18.73	4.94	-0.36	0
2000	24	20	7.64	6.78	-1.39	0
2000	24	21	13.16	6.99	-1.79	0
2000	24	22	4.63	7.53	-1.81	0
2000	24	23	8.03	8.89	-1.88	0
2000	25	0	10.95	9.63	-2.02	0
2000	25	1	9.23	9.27	-2.08	0
2000	25	2	9.28	10.37	-2.13	0
2000	25	3	4.98	10	-2.17	0
2000	25	4	7.93	11.85	-2.18	0
2000	25	5	12.27	12.08	-2.19	0
2000	25	6	5.94	10.69	-1.58	0.01
2000	25	7	3.95	12.07	-0.63	0.06
2000	25	8	7.93	13.26	-0.51	0.06

2000	25	9	5.53	15.13	-0.47	0.01
2000	25	10	11.52	16.08	-1.13	0
2000	25	11	6.79	15.67	-1.47	0
2000	25	12	13.02	15.39	-1.44	0
2000	25	13	11.82	13.92	-1.48	0
2000	25	14	4.78	13.5	-1.25	0
2000	25	15	2.6	15.95	-0.97	0
2000	25	16	6.1	15.5	-0.82	0
2000	25	17	5.19	15.89	-0.88	0.03
2000	25	18	5.74	15.86	-0.9	0
2000	25	19	7.93	17.74	-0.88	0.06
2000	25	20	7.69	17.27	-0.6	0
2000	25	21	8.08	17.84	-0.47	0.01
2000	25	22	6.61	15.47	-0.44	0
2000	25	23	6.01	15.09	-0.47	0
2000	26	0	357.1	9.11	-0.93	0
2000	26	1	339.7	7.11	-1.02	0
2000	26	2	328.05	5.47	-1.19	0
2000	26	3	313.17	6.03	-1.51	0
2000	26	4	308.66	5.78	-1.72	0
2000	26	5	314.34	8.31	-2.05	0
2000	26	6	322.47	7.42	-2.03	0
2000	26	7	324.88	6.02	-1.96	0
2000	26	8	307.8	4.8	-2.16	0
2000	26	9	288.91	4.46	-2.36	0
2000	26	10	320.93	6.83	-2.43	0
2000	26	11	333.75	7.57	-2.59	0
2000	26	12	331.64	8.46	-2.72	0
2000	26	13	326.84	7.57	-2.75	0
2000	26	14	329.27	7.57	-2.63	0
2000	26	15	335.64	7.8	-2.34	0
2000	26	16	327.13	5.55	-1.99	0
2000	26	17	309.47	4.8	-1.72	0
2000	26	18	308.52	7.04	-2.16	0
2000	26	19	324.93	5.61	-1.97	0
2000	26	20	334.08	6.48	-1.91	0
2000	26	21	336.71	6.4	-1.97	0
2000	26	22	333.16	6.92	-1.97	0
2000	26	23	333.04	6.61	-1.93	0
2000	27	0	329.23	6.11	-2.02	0
2000	27	1	329.88	5.2	-1.98	0
2000	27	2	333.52	5.71	-1.84	0
2000	27	3	340.99	5.89	-1.88	0
2000	27	4	323.54	5.61	-2.03	0
2000	27	5	318.66	6.92	-2.24	0
2000	27	6	325.77	7.81	-2.24	0
2000	27	7	320.67	6.74	-2.4	0
2000	27	8	314.67	10.04	-2.79	0
2000	27	9	321.79	7.95	-2.54	0

2000	27	10	318.08	8.8	-2.8	0
2000	27	11	314.44	8.73	-3.05	0
2000	27	12	317.73	9.51	-3.11	0
2000	27	13	313.1	9.51	-2.87	0
2000	27	14	318.79	9.46	-2.81	0
2000	27	15	318.06	9.49	-2.62	0
2000	27	16	308.27	9.5	-2.29	0
2000	27	17	307.36	8.17	-2.11	0
2000	27	18	314.31	6.98	-1.98	0
2000	27	19	315.74	7.66	-1.91	0
2000	27	20	328.06	7.08	-1.83	0
2000	27	21	317.68	8.38	-1.95	0
2000	27	22	316.18	8.18	-2.02	0
2000	27	23	297.59	11.22	-2.04	0
2000	28	0	305.58	10.11	-1.99	0
2000	28	1	315.75	7.76	-1.82	0
2000	28	2	309.2	7.7	-1.78	0
2000	28	3	321.02	12.07	-1.94	0
2000	28	4	317.73	9.55	-2.04	0
2000	28	5	314.33	8.39	-2.14	0
2000	28	6	315.47	5.84	-1.95	0
2000	28	7	323.59	5.55	-1.77	0
2000	28	8	314.14	7.53	-2.33	0
2000	28	9	313.58	7.98	-2.52	0
2000	28	10	316.06	8.51	-2.6	0
2000	28	11	305.13	9.58	-2.86	0
2000	28	12	309.86	9.18	-2.87	0
2000	28	13	306.08	9.82	-2.84	0
2000	28	14	303.87	8.65	-2.89	0
2000	28	15	302.97	10.87	-2.65	0
2000	28	16	300.17	11.04	-2.27	0
2000	28	17	306.26	10.75	-2.05	0
2000	28	18	326.74	8.62	-1.95	0
2000	28	19	323.06	6.89	-1.83	0
2000	28	20	323.17	5.87	-1.79	0
2000	28	21	339.91	7.85	-1.73	0
2000	28	22	343.18	9.88	-1.71	0
2000	28	23	344.11	9.57	-1.73	0
2000	29	0	341.59	9.02	-1.74	0
2000	29	1	341.08	7.1	-1.73	0
2000	29	2	337.26	6.2	-1.61	0
2000	29	3	355.58	6.67	-1.52	0
2000	29	4	6.84	4.29	-1.42	0
2000	29	5	30.14	5.45	-0.73	0
2000	29	6	52.16	4.02	0.27	0
2000	29	7	37.13	4.74	0.55	0
2000	29	8	46.08	5.08	-0.92	0
2000	29	9	7.71	5.18	-2.11	0
2000	29	10	350.41	5.34	-2.69	0

2000	29	11	358.74	4.66	-2.38	0
2000	29	12	354.5	5.09	-2.67	0
2000	29	13	337.26	5.26	-2.74	0
2000	29	14	345.86	5.46	-2.58	0
2000	29	15	336.44	4.59	-2.38	0
2000	29	16	336.65	4.42	-1.93	0
2000	29	17	350.02	4.12	-1.26	0
2000	29	18	16.37	5.05	-0.33	0
2000	29	19	24.98	5.58	-0.25	0
2000	29	20	12.18	7.61	-0.3	0
2000	29	21	20	6.76	0.42	0
2000	29	22	30.37	5.66	1.07	0
2000	29	23	38.68	7.44	2.16	0
2000	30	0	46.29	4.41	0.87	0
2000	30	1	27.9	5.1	1.26	0
2000	30	2	38.3	6.79	2.3	0
2000	30	3	51.83	4.49	2.41	0
2000	30	4	47.75	3.41	2.68	0
2000	30	5	51.57	3.65	2.65	0
2000	30	6	163.43	2.17	2.51	0
2000	30	7	78.98	2.81	2.54	0
2000	30	8	103.32	1.92	1.76	0
2000	30	9	118.14	2.26	-0.85	0
2000	30	10	61.97	2.42	-1.19	0
2000	30	11	32.87	2.92	-1.12	0
2000	30	12	9.42	2.96	-1.12	0
2000	30	13	46.04	3.64	-0.92	0
2000	30	14	315.89	2.67	-1.52	0
2000	30	15	167.44	1.91	-0.68	0
2000	30	16	88.35	2.46	-0.13	0
2000	30	17	73.81	1.64	1.25	0
2000	30	18	139.04	2.69	1.59	0
2000	30	19	40.85	1.85	0.81	0
2000	30	20	247.45	1.67	-0.54	0
2000	30	21	19.11	2.64	-1.15	0.03
2000	30	22	5.94	4.11	-0.79	0.14
2000	30	23	357.05	6.13	0.27	0.18
2000	31	0	359.49	5.95	1.88	0.07
2000	31	1	350.99	4.49	6.7	0.06
2000	31	2	309.66	5.1	2.48	0.1
2000	31	3	27.67	6.6	0.47	0.01
2000	31	4	21.87	8.19	0.28	0
2000	31	5	33.05	6.07	0.17	0
2000	31	6	1.26	4.01	-0.82	0
2000	31	7	286.47	4.53	-1.39	0
2000	31	8	265.34	4.77	-1.66	0
2000	31	9	282.96	8.96	-1.7	0
2000	31	10	272.83	9.09	-1.8	0
2000	31	11	266.9	5.57	-1.99	0

2000	31	12	276.28	8.71	-2.13	0
2000	31	13	280.37	9.75	-2.2	0
2000	31	14	274.14	9.04	-2.25	0
2000	31	15	275.67	9.15	-2.24	0
2000	31	16	272.08	7.33	-1.93	0
2000	31	17	280.71	9.06	-1.65	0
2000	31	18	267.13	5.49	-1.59	0
2000	31	19	224.15	3.29	-1.32	0
2000	31	20	204.78	2.97	-0.59	0
2000	31	21	178.34	4.41	0.11	0
2000	31	22	183.54	5.97	-0.17	0
2000	31	23	183.59	5.97	-0.8	0
2000	32	0	185.38	5.74	-0.85	0
2000	32	1	181.15	4.57	0.05	0
2000	32	2	183.44	3.48	1.45	0
2000	32	3	239.32	2.06	2.01	0
2000	32	4	205.2	3.04	1.65	0
2000	32	5	176.63	6.13	-0.55	0
2000	32	6	190.89	6.27	-1.06	0
2000	32	7	178.78	5.89	-0.75	0
2000	32	8	197.15	5.71	-1.16	0
2000	32	9	181.7	5.36	-2.19	0
2000	32	10	268.54	7.63	-2.28	0
2000	32	11	275.41	7.23	-2.32	0
2000	32	12	271.5	7.07	-2.8	0
2000	32	13	272.2	6.54	-2.28	0
2000	32	14	269.13	8.07	-2.25	0
2000	32	15	285.52	6.73	-2.31	0
2000	32	16	281	7.92	-1.89	0
2000	32	17	266.58	5.77	-1.54	0
2000	32	18	252.98	4.92	-1.38	0
2000	32	19	252.8	5.22	-1.42	0
2000	32	20	251.48	6.19	-1.61	0
2000	32	21	271.48	6.42	-1.7	0
2000	32	22	284.62	7.06	-1.65	0
2000	32	23	307.12	7.59	-1.94	0
2000	33	0	311.35	7.91	-2.03	0
2000	33	1	310.41	8.56	-1.86	0
2000	33	2	293.03	5.77	-1.73	0
2000	33	3	296.72	6.67	-1.72	0
2000	33	4	293.52	7.64	-1.8	0
2000	33	5	285.36	6.37	-1.71	0
2000	33	6	285.81	5.18	-1.64	0
2000	33	7	309.9	7.44	-1.85	0
2000	33	8	318.24	8.49	-2.14	0
2000	33	9	310.33	9.56	-2.64	0
2000	33	10	309.7	12.13	-2.93	0
2000	33	11	301.03	10.94	-3.09	0
2000	33	12	297	9.79	-3.18	0

2000	33	13	302.2	9.31	-2.97	0
2000	33	14	312.04	9.98	-2.7	0
2000	33	15	308.22	10.1	-2.61	0
2000	33	16	306.56	8.74	-2.18	0
2000	33	17	299.53	8.04	-1.82	0
2000	33	18	302.71	10.18	-1.85	0
2000	33	19	313.76	8.66	-1.79	0
2000	33	20	324.4	7.38	-1.75	0
2000	33	21	327.29	8.27	-1.76	0
2000	33	22	336.31	7.02	-1.69	0
2000	33	23	332.67	6.14	-1.68	0
2000	34	0	313.51	5.79	-1.69	0
2000	34	1	344.35	4.03	-1.49	0
2000	34	2	275.21	4.25	-1.57	0
2000	34	3	289.03	5.71	-1.84	0
2000	34	4	342.83	3.37	-1.7	0
2000	34	5	317.72	4.32	-1.8	0
2000	34	6	223.62	2.37	-1.62	0
2000	34	7	186.86	2.2	-1.59	0
2000	34	8	90.29	1.49	-1.71	0
2000	34	9	177.6	3.22	-2.09	0
2000	34	10	172.68	2.61	-2.14	0
2000	34	11	259.01	2.89	-2.14	0
2000	34	12	189.96	3.16	-2.15	0
2000	34	13	165.32	2.73	-1.9	0
2000	34	14	358.79	2.91	-1.18	0
2000	34	15	353.79	2.46	-1.22	0
2000	34	16	359.12	2.61	-0.84	0
2000	34	17	22.13	3.71	-0.92	0
2000	34	18	30.12	5.11	-0.99	0
2000	34	19	25.72	2.94	-1.03	0
2000	34	20	18.43	2.59	-0.99	0
2000	34	21	25.81	3.41	-0.87	0
2000	34	22	29.09	3.7	-0.5	0
2000	34	23	14.5	3.32	-0.58	0
2000	35	0	0.52	3.46	-0.42	0
2000	35	1	3.55	3.8	-0.84	0
2000	35	2	17.7	4.38	-1.31	0
2000	35	3	8.77	4.2	-1.47	0
2000	35	4	37.29	5.36	-0.93	0
2000	35	5	8.89	6.13	-1.46	0
2000	35	6	3.89	5.67	-1.56	0
2000	35	7	19.79	6.31	-1.39	0
2000	35	8	4.35	6.48	-1.78	0
2000	35	9	354.19	4.6	-1.99	0
2000	35	10	359.41	4.05	-2.04	0
2000	35	11	3.62	3.52	-1.99	0
2000	35	12	14.16	3.32	-2.02	0
2000	35	13	3.87	4.03	-1.98	0

2000	35	14	7.46	4.69	-1.89	0
2000	35	15	25.13	3.32	-1.79	0
2000	35	16	35.8	2.67	-1.67	0
2000	35	17	20.33	2.27	-1.3	0
2000	35	18	13.92	2.14	-0.77	0
2000	35	19	34.97	4.22	-0.56	0
2000	35	20	38.79	3.99	-0.64	0
2000	35	21	32.69	5.21	-0.54	0
2000	35	22	49.83	3.52	0.08	0
2000	35	23	83.77	2.15	-0.14	0
2000	36	0	43.28	2.89	-0.31	0
2000	36	1	46.37	3.99	-0.34	0
2000	36	2	67.1	2.14	0	0
2000	36	3	46.12	3.41	0.01	0
2000	36	4	58.1	4.77	0.55	0
2000	36	5	66.93	3.44	2.35	0
2000	36	6	343.24	5.27	-0.87	0
2000	36	7	320.91	8.09	-1.88	0
2000	36	8	330.9	7.28	-2.02	0
2000	36	9	299.1	6.04	-2.48	0
2000	36	10	312.26	7.68	-2.54	0
2000	36	11	298.33	7.28	-2.7	0
2000	36	12	291.98	6.02	-2.89	0
2000	36	13	288.5	6.61	-2.8	0
2000	36	14	273.88	7.73	-2.63	0
2000	36	15	273.98	6.52	-2.37	0
2000	36	16	264.36	5.4	-1.98	0
2000	36	17	239.81	1.84	-1.11	0
2000	36	18	202.15	4.31	0.01	0
2000	36	19	183.92	6.47	-0.89	0
2000	36	20	192.91	5.6	-0.99	0
2000	36	21	177.46	6.15	-0.89	0
2000	36	22	173.83	4.84	-0.49	0
2000	36	23	188.62	3.97	-0.67	0
2000	37	0	247.19	5.16	-1.38	0
2000	37	1	250.92	4.77	-1.3	0
2000	37	2	260.22	6.23	-1.53	0
2000	37	3	281.19	7.7	-1.58	0
2000	37	4	334.27	7.17	-1.64	0
2000	37	5	336.98	8.63	-1.65	0
2000	37	6	330.12	6.71	-1.68	0
2000	37	7	324.52	8	-1.75	0
2000	37	8	322.57	7.74	-2.14	0
2000	37	9	318.3	8.67	-2.44	0
2000	37	10	310.73	8.1	-2.67	0
2000	37	11	310.59	6.29	-2.72	0
2000	37	12	309.51	7.35	-2.81	0
2000	37	13	279.02	7.62	-2.75	0
2000	37	14	281.08	8.26	-2.54	0

2000	37	15	276.57	7.9	-2.34	0
2000	37	16	270.22	6.36	-1.93	0
2000	37	17	243.72	3.14	-1.43	0
2000	37	18	242.9	2.4	-0.62	0
2000	37	19	196.89	2.66	1.63	0
2000	37	20	190.71	3.38	2.23	0
2000	37	21	159.04	3.49	2.12	0
2000	37	22	162.94	3.35	1.3	0
2000	37	23	181.96	4.9	0.4	0
2000	38	0	178.55	4.52	-0.08	0
2000	38	1	178.05	7.24	-0.93	0
2000	38	2	176	7.76	-1.39	0
2000	38	3	180.58	8.05	-1.3	0
2000	38	4	181.06	6.78	-1.08	0
2000	38	5	171.73	5.22	-0.43	0
2000	38	6	182.85	2.85	0.88	0
2000	38	7	200.98	5.02	0.51	0
2000	38	8	227.53	4.69	-1.16	0
2000	38	9	261.14	6.15	-2.21	0
2000	38	10	285.87	6.49	-2.4	0
2000	38	11	291.53	8.08	-2.54	0
2000	38	12	286.14	8.77	-2.6	0
2000	38	13	280.93	9.62	-2.4	0
2000	38	14	280.07	9.28	-2.26	0
2000	38	15	296.06	6.75	-2.4	0
2000	38	16	304.84	8.23	-2.11	0
2000	38	17	305.14	6.62	-1.79	0
2000	38	18	319.6	7.18	-1.73	0
2000	38	19	318.68	7.61	-1.76	0
2000	38	20	336.86	7.23	-1.65	0
2000	38	21	329.21	7.79	-1.75	0
2000	38	22	333.06	9.2	-1.77	0
2000	38	23	330.32	8.74	-1.79	0
2000	39	0	334.68	8.14	-1.73	0
2000	39	1	343.81	6.52	-1.69	0
2000	39	2	2.57	6.62	-1.77	0
2000	39	3	20.72	5.84	-1.45	0
2000	39	4	31.61	6.13	-1.24	0
2000	39	5	14.27	7.35	-1.81	0
2000	39	6	3.28	6.65	-1.78	0
2000	39	7	53.91	4.54	-1.29	0
2000	39	8	32.97	4.57	-1.92	0
2000	39	9	26.1	5.49	-2.26	0
2000	39	10	359.66	5.1	-2.47	0
2000	39	11	5.81	3.78	-2.28	0
2000	39	12	352.02	3.46	-2.34	0
2000	39	13	39.45	3.82	-2.32	0
2000	39	14	243.81	2.91	-2.26	0
2000	39	15	167.41	4.86	-2.63	0

2000	39	16	154.12	3.97	-2.2	0
2000	39	17	150.97	3.74	-0.85	0
2000	39	18	171.83	4.61	-0.35	0
2000	39	19	188.94	7.45	-0.92	0
2000	39	20	192.96	6.45	-1	0
2000	39	21	198.22	5.25	-0.52	0
2000	39	22	179.17	3.69	-0.01	0
2000	39	23	185.23	6.22	-0.16	0
2000	40	0	210.16	3.61	-0.04	0
2000	40	1	191.37	4.8	-0.07	0
2000	40	2	169.58	4.36	0.18	0
2000	40	3	179.28	4.58	-0.26	0
2000	40	4	192.58	2.75	0.13	0
2000	40	5	213.31	2.45	0.68	0
2000	40	6	225.46	2.54	1.35	0
2000	40	7	223.58	2.65	0.84	0
2000	40	8	187.77	4.27	-0.85	0
2000	40	9	171.29	7.34	-2.48	0
2000	40	10	172.02	8.49	-2.42	0
2000	40	11	185.66	9.81	-2.51	0
2000	40	12	186.57	10.71	-2.49	0
2000	40	13	183.76	10.77	-2.72	0
2000	40	14	177.27	10.03	-2.56	0
2000	40	15	179.79	9.09	-2.18	0
2000	40	16	183.17	7.69	-1.33	0
2000	40	17	174.35	5.31	0.26	0
2000	40	18	171.75	4.55	0.7	0
2000	40	19	216.52	2.56	0.88	0
2000	40	20	310.16	1.89	1.8	0
2000	40	21	246.24	2.03	2.1	0
2000	40	22	353.32	2.05	5.16	0
2000	40	23	10.87	1.85	8.72	0
2000	41	0	349.68	2.72	7.09	0
2000	41	1	24.47	4.79	7.36	0
2000	41	2	332.75	2.09	8.47	0
2000	41	3	16.3	2.66	8.15	0
2000	41	4	44.57	5.99	9.4	0
2000	41	5	49.85	5.16	8.31	0
2000	41	6	25.78	3.41	7.44	0
2000	41	7	28.95	6.74	7.89	0
2000	41	8	40.79	4.36	6.42	0
2000	41	9	28.1	2.03	4.26	0
2000	41	10	35.13	2.35	-0.77	0
2000	41	11	350.32	3.02	-1.5	0
2000	41	12	299.92	2.99	-2.07	0
2000	41	13	250.7	3.7	-1.94	0
2000	41	14	198.68	3.58	-2.2	0
2000	41	15	173.38	5.33	-1.88	0
2000	41	16	167.84	3.98	-0.64	0

2000	41	17	179.7	3.02	0.81	0
2000	41	18	206.55	2.28	0.68	0
2000	41	19	191.96	2.78	0.37	0
2000	41	20	157.3	2.22	0.44	0
2000	41	21	319.75	1.73	-0.08	0
2000	41	22	205.7	1.49	-0.56	0
2000	41	23	160.7	1.92	-1.15	0
2000	42	0	197.66	1.35	-1.3	0
2000	42	1	194.03	1.64	-0.96	0
2000	42	2	188.74	1.14	-0.89	0
2000	42	3	193.05	2.04	-0.55	0
2000	42	4	177.16	2.34	-0.14	0
2000	42	5	197.06	2.28	0.02	0
2000	42	6	166.01	1.89	-0.04	0
2000	42	7	145.2	1.49	0.11	0
2000	42	8	190.41	1.23	-0.2	0
2000	42	9	138.08	1.35	-0.02	0
2000	42	10	78.61	1.06	2.3	0
2000	42	11	248.23	1.58	0.56	0
2000	42	12	3.74	1.78	0.62	0
2000	42	13	254.56	2.47	0.38	0
2000	42	14	215.1	2.87	0.67	0
2000	42	15	214.4	2.08	2.44	0
2000	42	16	308.7	7.11	-1.62	0
2000	42	17	300.73	8.5	-1.91	0
2000	42	18	309.52	10.1	-2.07	0
2000	42	19	320.04	9.8	-1.91	0
2000	42	20	321.91	9.55	-1.93	0
2000	42	21	326.75	8.48	-1.96	0
2000	42	22	348.16	7.71	-1.8	0
2000	42	23	306.76	6.77	-1.86	0
2000	43	0	305.62	6.47	-1.89	0
2000	43	1	292.67	7.22	-1.96	0
2000	43	2	293.77	5.76	-2.21	0
2000	43	3	305.24	3.84	-2.04	0
2000	43	4	329.5	4.13	-1.88	0
2000	43	5	323.76	6.96	-1.9	0
2000	43	6	343.27	4.81	-1.68	0
2000	43	7	351.84	6.21	-1.96	0
2000	43	8	339.27	6.09	-2.42	0
2000	43	9	355.44	6.14	-2.63	0
2000	43	10	8.26	6.67	-2.72	0
2000	43	11	346.56	5.42	-3	0
2000	43	12	340.05	5.5	-3.22	0
2000	43	13	345.4	4.71	-2.83	0
2000	43	14	341.23	4.81	-2.9	0
2000	43	15	335.94	4.11	-2.59	0
2000	43	16	337.39	4.24	-2.39	0
2000	43	17	357.74	3.56	-1.81	0

2000	43	18	6.63	3.75	-1.41	0
2000	43	19	33.73	4.16	-0.4	0
2000	43	20	34.07	4.98	0.08	0
2000	43	21	29.8	5.29	0.76	0
2000	43	22	32.91	5.07	2.05	0
2000	43	23	41.53	5.14	3.02	0
2000	44	0	40.94	4.44	3.3	0
2000	44	1	39.16	5.69	3.49	0
2000	44	2	44.1	3.67	2.19	0
2000	44	3	38.18	5.44	3.76	0
2000	44	4	41.74	6.6	4.49	0
2000	44	5	70.87	3.11	1.54	0
2000	44	6	42.18	3.97	1.07	0
2000	44	7	38.5	5	1.74	0
2000	44	8	35.8	4.09	1.81	0
2000	44	9	40.57	2.89	-0.3	0
2000	44	10	278.93	2.16	-1.54	0
2000	44	11	202.37	3.8	-2.1	0
2000	44	12	192.8	4.82	-2.27	0
2000	44	13	166.19	5.27	-2.52	0
2000	44	14	155.71	4.63	-2.11	0
2000	44	15	156.95	5.13	-1.7	0
2000	44	16	162.11	5.76	-1.73	0
2000	44	17	161.09	4.5	-1.44	0
2000	44	18	177.71	3.34	-1.33	0
2000	44	19	164.43	2.48	-1.16	0
2000	44	20	188.49	2.14	-1.49	0
2000	44	21	319.22	1.64	-0.36	0.01
2000	44	22	355.83	2.86	0.77	0.01
2000	44	23	3.67	1.89	1.12	0.04
2000	45	0	42.85	2.87	1.49	0.09
2000	45	1	31.05	3.92	1.77	0.06
2000	45	2	52.25	1.79	1.83	0.04
2000	45	3	28.67	3.61	2.7	0.15
2000	45	4	43.27	2.13	3.05	0.01
2000	45	5	2.02	1.59	2.48	0.01
2000	45	6	42.18	2.74	4.6	0
2000	45	7	48.34	2.3	5.95	0.01
2000	45	8	28.77	2.82	4.98	0.21
2000	45	9	316.34	3.07	2.19	0.07
2000	45	10	169.66	7.73	3.15	0
2000	45	11	190.64	9.73	0.2	0
2000	45	12	223.28	8.54	-1.35	0
2000	45	13	204.63	7.04	-2.33	0
2000	45	14	216.85	5.21	-2.07	0
2000	45	15	190.51	5.95	-2.27	0
2000	45	16	174.43	4.6	-0.98	0
2000	45	17	163.35	2.91	0.64	0
2000	45	18	178.09	5.36	0.25	0

2000	45	19	173.43	5.34	0.28	0
2000	45	20	164.4	2.42	0.09	0
2000	45	21	300.64	4.92	-1.09	0
2000	45	22	308.92	5.38	-1.6	0
2000	45	23	294.67	6.31	-1.75	0
2000	46	0	291.79	7.44	-1.81	0
2000	46	1	339.54	6.95	-1.88	0
2000	46	2	318.68	7.9	-1.92	0
2000	46	3	324.69	9.06	-1.82	0
2000	46	4	318.26	10.21	-1.8	0
2000	46	5	325.55	8.94	-1.74	0
2000	46	6	315.43	6.28	-1.82	0
2000	46	7	314.28	6.92	-1.85	0
2000	46	8	315.65	7.54	-2.29	0
2000	46	9	323.68	8.29	-2.43	0
2000	46	10	320.51	8.19	-2.7	0
2000	46	11	328.05	7.65	-2.78	0
2000	46	12	318.75	7	-2.98	0
2000	46	13	313.28	6.65	-3.07	0
2000	46	14	307.53	7.29	-2.87	0
2000	46	15	302.13	5.67	-2.68	0
2000	46	16	290.06	5.95	-2.21	0
2000	46	17	298.63	3.95	-1.68	0
2000	46	18	302.05	3.44	-1.47	0
2000	46	19	272.93	2.96	-1.3	0
2000	46	20	123.38	3.48	-0.73	0
2000	46	21	65.93	2.84	-1.13	0
2000	46	22	166.77	2.49	0.07	0
2000	46	23	263.43	1.8	0.79	0
2000	47	0	57.1	1.6	1.89	0
2000	47	1	31.02	1.91	2.03	0
2000	47	2	40.16	2.14	2.23	0
2000	47	3	5.82	2.68	0.63	0
2000	47	4	206.37	1.93	0.1	0
2000	47	5	145.32	1.84	-0.31	0
2000	47	6	173.24	3.42	0.11	0
2000	47	7	182.26	6.14	-1.09	0
2000	47	8	171.8	8.13	-1.48	0
2000	47	9	179.33	7.82	-1.33	0
2000	47	10	180.64	8.79	-1.34	0
2000	47	11	183.16	8.79	-2.35	0
2000	47	12	202.46	5.53	-2.06	0
2000	47	13	195.78	6.1	-2.43	0
2000	47	14	179.8	4.81	-2.14	0
2000	47	15	168.86	3.26	-1.94	0
2000	47	16	170.65	3.19	-1.73	0
2000	47	17	233.21	2.99	-0.86	0
2000	47	18	279.72	4.55	-1.34	0
2000	47	19	305.73	8.45	-1.74	0

2000	47	20	304.53	8.06	-1.88	0
2000	47	21	320.16	7.03	-1.67	0
2000	47	22	324.65	9.28	-1.65	0
2000	47	23	330.48	7.35	-1.67	0
2000	48	0	331.28	7.58	-1.77	0
2000	48	1	327.22	8.06	-1.74	0
2000	48	2	334.31	7.49	-1.79	0
2000	48	3	332.65	9.49	-1.9	0
2000	48	4	343.85	6.91	-1.86	0
2000	48	5	321.81	8.72	-1.94	0
2000	48	6	321.08	7.47	-2.01	0
2000	48	7	334.93	6.91	-1.99	0
2000	48	8	358.43	7.47	-2.35	0
2000	48	9	10.99	6.55	-2.67	0
2000	48	10	5.72	6.35	-2.82	0
2000	48	11	357.24	6.17	-2.89	0
2000	48	12	345.91	7.37	-3.28	0
2000	48	13	333.35	7.51	-3	0
2000	48	14	324.21	5.93	-3.14	0
2000	48	15	327.5	5.68	-2.97	0
2000	48	16	339.5	5.41	-2.39	0
2000	48	17	340.58	3.44	-1.72	0
2000	48	18	342.45	1.53	-1.42	0
2000	48	19	16.21	3.34	-0.72	0
2000	48	20	12.49	3.45	-1.04	0
2000	48	21	28.57	4.61	-1.09	0
2000	48	22	26.55	4.35	-1.11	0
2000	48	23	33.11	3.52	-0.49	0
2000	49	0	28.53	3.48	0.06	0
2000	49	1	25.13	5	-0.24	0
2000	49	2	32.9	4.51	-0.64	0
2000	49	3	22.9	3.01	-1.03	0
2000	49	4	33.98	4.1	-1.08	0
2000	49	5	32.74	3.34	-1.06	0
2000	49	6	37.38	2.83	-1.37	0
2000	49	7	24.14	2.71	-1.72	0
2000	49	8	6.53	3.58	-1.35	0
2000	49	9	359.97	4.03	-1.22	0
2000	49	10	22.27	4	-1.2	0.02
2000	49	11	2.28	2.87	-0.77	0.03
2000	49	12	353.48	3.07	-0.71	0.04
2000	49	13	4.9	4.3	-0.32	0.08
2000	49	14	7.34	5.19	0.8	0.12
2000	49	15	6.72	6.63	0.87	0.15
2000	49	16	11.64	7.57	0.48	0.07
2000	49	17	14.32	8.37	0.39	0.01
2000	49	18	15.83	8.49	0.48	0.01
2000	49	19	14.03	7.38	0.51	0
2000	49	20	10.02	6.69	-0.12	0

2000	49	21	8.24	7.53	-0.77	0
2000	49	22	5.64	6.76	-0.98	0
2000	49	23	3.59	6.85	-1.1	0
2000	50	0	1.66	6.28	-1.17	0
2000	50	1	7.47	6.29	-1.17	0
2000	50	2	7.93	5.21	-0.72	0
2000	50	3	4.71	4.37	-0.61	0
2000	50	4	359.57	4.12	0.04	0
2000	50	5	17.01	2.59	0.37	0
2000	50	6	1.65	4.89	0.06	0
2000	50	7	2.44	4.55	-0.29	0
2000	50	8	12.55	4.29	-1.19	0.01
2000	50	9	3.45	5.7	-1.59	0
2000	50	10	6.07	6.52	-2.07	0
2000	50	11	3.94	6.58	-1.89	0
2000	50	12	2.8	5.86	-1.92	0
2000	50	13	359.48	5.11	-1.85	0
2000	50	14	353.7	4.72	-1.64	0
2000	50	15	5.61	5.52	-1.65	0
2000	50	16	2.9	6.41	-1.57	0
2000	50	17	4.86	6.8	-1.43	0
2000	50	18	6.85	7.55	-1.44	0
2000	50	19	7.73	6.32	-1.41	0
2000	50	20	5.8	6.09	-1.42	0
2000	50	21	350.31	4.21	-1.37	0
2000	50	22	349.28	4.26	-1.42	0
2000	50	23	13.34	4.36	-1.33	0
2000	51	0	13.98	3.4	-1.11	0
2000	51	1	62.98	2.55	-0.5	0
2000	51	2	122.32	1.86	-0.3	0
2000	51	3	103.75	2.21	-1.05	0
2000	51	4	231.58	4.55	-1.5	0
2000	51	5	262.65	5.32	-1.75	0
2000	51	6	309.14	6.57	-1.84	0
2000	51	7	308.23	6.31	-1.81	0
2000	51	8	303.81	4.34	-1.99	0
2000	51	9	294.25	5.33	-2.42	0
2000	51	10	291.9	6.61	-2.5	0
2000	51	11	300.38	5.82	-2.58	0
2000	51	12	294.92	6.14	-2.52	0
2000	51	13	296.96	6.3	-2.42	0
2000	51	14	294.61	6.19	-2.62	0
2000	51	15	290.69	7.56	-2.55	0
2000	51	16	291.07	6.94	-2.25	0
2000	51	17	278.93	5.59	-1.59	0
2000	51	18	268.51	4.29	-1.29	0
2000	51	19	263.2	3.68	-1.08	0
2000	51	20	260.09	4.84	-1.32	0
2000	51	21	267.61	4.96	-1.32	0

2000	51	22	280.18	5.98	-1.33	0
2000	51	23	291.13	6.11	-1.41	0
2000	52	0	302.32	5.87	-1.65	0
2000	52	1	286.29	5.15	-1.53	0
2000	52	2	303.6	5.82	-1.58	0
2000	52	3	285.06	6.91	-1.48	0
2000	52	4	277.17	7.27	-1.49	0
2000	52	5	288.24	6.25	-1.49	0
2000	52	6	259.14	3.48	-1.41	0
2000	52	7	280.64	4.31	-1.64	0
2000	52	8	301.9	5.37	-2.23	0
2000	52	9	294.54	6.06	-2.68	0
2000	52	10	291.15	5.2	-2.75	0
2000	52	11	295.29	6.62	-3.03	0
2000	52	12	340.62	5.24	-2.67	0
2000	52	13	303.26	4.52	-2.61	0
2000	52	14	272.66	5.18	-2.67	0
2000	52	15	269.96	4.03	-2.44	0
2000	52	16	269.66	4.37	-2.13	0
2000	52	17	269.14	3.65	-1.36	0
2000	52	18	197.86	2.03	-0.48	0
2000	52	19	205.01	2.64	0.64	0
2000	52	20	204.43	3.04	-0.74	0
2000	52	21	200.96	2.9	-0.63	0
2000	52	22	127.6	1.72	-0.08	0
2000	52	23	250.01	2.24	1.23	0
2000	53	0	46.61	1.76	3.02	0
2000	53	1	7.13	2.55	3.37	0
2000	53	2	3.24	1.76	3.67	0
2000	53	3	344.05	1.39	2.92	0
2000	53	4	357.61	1.29	3.24	0
2000	53	5	338.16	1.54	3.75	0
2000	53	6	13.02	1.56	2.94	0
2000	53	7	1.13	1.37	3.2	0
2000	53	8	210.67	1.19	0.34	0
2000	53	9	170.49	3.21	-1.69	0
2000	53	10	197.36	2.83	-1.74	0
2000	53	11	254.99	3.86	-0.7	0
2000	53	12	246.67	3.67	-0.4	0
2000	53	13	209.92	3.74	-1.43	0
2000	53	14	163.62	5.17	-2.44	0
2000	53	15	150.09	5.53	-2.14	0
2000	53	16	154.14	6.17	-1.24	0
2000	53	17	160.95	5.25	-0.3	0
2000	53	18	160.91	4.88	0.18	0
2000	53	19	158.64	3.56	0.34	0
2000	53	20	162.5	3.15	0.56	0
2000	53	21	169.17	3.24	0.49	0
2000	53	22	180.89	3.3	0.11	0

2000	53	23	251.92	2.15	0.57	0
2000	54	0	260.3	1.39	2.54	0
2000	54	1	6.13	1.75	2.96	0
2000	54	2	356.01	1.74	4.16	0
2000	54	3	355.31	1.49	3.81	0
2000	54	4	26.45	1.78	4.8	0
2000	54	5	357.97	1.45	4.32	0
2000	54	6	19.49	2.21	4.37	0
2000	54	7	357.53	2.06	4.63	0
2000	54	8	164.99	1.87	1.51	0
2000	54	9	187.42	2.52	-1.18	0
2000	54	10	212.75	2.93	-0.02	0
2000	54	11	169.49	3.97	-0.52	0
2000	54	12	183.95	4.99	-1.33	0
2000	54	13	189.43	8.7	-2.46	0
2000	54	14	186.81	8.37	-2.1	0
2000	54	15	184.83	8.63	-2.26	0
2000	54	16	185.38	8.31	-1.34	0
2000	54	17	175.14	6.19	-0.05	0
2000	54	18	165.21	2.66	0.17	0
2000	54	19	177.91	3.33	0.68	0
2000	54	20	183.56	1.59	1.65	0
2000	54	21	327.53	1.57	2.64	0
2000	54	22	339.56	1.74	3.87	0
2000	54	23	356.47	1.53	4.58	0
2000	55	0	315.19	1.7	3.41	0
2000	55	1	9.82	1.42	1.98	0
2000	55	2	35.45	1.69	2.96	0
2000	55	3	343.2	1.72	3.56	0
2000	55	4	11.8	2.13	4.39	0
2000	55	5	18.33	1.97	4.72	0
2000	55	6	1.82	1.75	5.51	0
2000	55	7	16.77	1.34	5.01	0
2000	55	8	341.36	1.44	3.4	0
2000	55	9	268.39	2.47	0.64	0
2000	55	10	165.59	2.89	-1.45	0
2000	55	11	234.61	3.55	-0.01	0
2000	55	12	197.74	3.41	0.48	0
2000	55	13	194.19	3.57	-1.34	0
2000	55	14	227.02	3.57	-0.81	0
2000	55	15	237.25	2.88	1.22	0
2000	55	16	244.05	1.58	2.75	0
2000	55	17	187.49	1.66	3.56	0
2000	55	18	319.13	1.41	3.79	0
2000	55	19	346.07	2.12	5.39	0
2000	55	20	22.74	3.44	7.89	0
2000	55	21	20.27	3.14	7.66	0
2000	55	22	28.72	4.6	8.26	0
2000	55	23	27.76	4.39	8.42	0

2000	56	0	28.79	3.95	8.23	0
2000	56	1	13.09	2.93	7.68	0
2000	56	2	12.85	2.61	7.63	0
2000	56	3	7.77	2.65	7.46	0
2000	56	4	48.83	4.02	7	0
2000	56	5	20.68	2.35	5.57	0
2000	56	6	51.89	1.92	5.49	0
2000	56	7	23.41	4.09	4	0
2000	56	8	16.11	3.65	1.69	0
2000	56	9	6.4	4	-0.34	0
2000	56	10	13.51	3.46	-0.46	0.09
2000	56	11	346.3	2.85	-0.41	0.02
2000	56	12	357.4	3.51	-0.62	0
2000	56	13	29.55	5.77	-1.02	0.03
2000	56	14	44.84	5.37	-1.49	0
2000	56	15	35.13	6.57	-1.57	0
2000	56	16	37.92	4.55	-1.46	0
2000	56	17	24.28	5.64	-1.37	0.02
2000	56	18	12.1	5.51	-1.17	0
2000	56	19	21.95	5.87	-1.31	0
2000	56	20	25.32	6.87	-1.45	0
2000	56	21	27.48	5.91	-1.5	0
2000	56	22	27.95	6.31	-1.6	0
2000	56	23	21.8	5.8	-1.58	0
2000	57	0	29.4	6.81	-1.61	0
2000	57	1	24.77	5.47	-1.61	0
2000	57	2	25.5	5.56	-1.59	0
2000	57	3	30.08	5.84	-1.6	0
2000	57	4	23.85	5.51	-1.61	0
2000	57	5	23.24	6.02	-1.61	0
2000	57	6	28.58	6.68	-1.72	0
2000	57	7	19.9	5.01	-1.65	0
2000	57	8	33.24	5.97	-1.77	0
2000	57	9	26.78	6.47	-1.8	0
2000	57	10	20.01	4.77	-1.84	0
2000	57	11	12.11	4.18	-1.9	0
2000	57	12	23.46	4.19	-1.93	0
2000	57	13	16.69	3.89	-1.96	0
2000	57	14	2.95	3.69	-1.68	0
2000	57	15	0.11	2.52	-1.58	0
2000	57	16	4.79	3	-1.51	0
2000	57	17	9.32	2.66	-1.3	0
2000	57	18	24.02	2.82	-1.18	0
2000	57	19	14.46	2.75	-1.01	0
2000	57	20	15.45	2.61	-0.4	0
2000	57	21	9.8	2.21	-0.54	0
2000	57	22	11.26	1.96	-0.02	0
2000	57	23	26.1	1.61	0.1	0
2000	58	0	153.06	0.97	1.29	0

2000	58	1	74.33	1.17	2.04	0
2000	58	2	203.01	1.04	2.41	0
2000	58	3	175.63	1.83	2.38	0
2000	58	4	43.41	1.14	1.51	0
2000	58	5	347.96	1.46	3.16	0
2000	58	6	35.63	1.25	3.13	0
2000	58	7	194.13	1.36	1.69	0
2000	58	8	207.17	2.08	3.41	0
2000	58	9	185.04	3.58	4.19	0
2000	58	10	167.96	4.66	1	0
2000	58	11	160.96	4.49	3.53	0
2000	58	12	159.99	4.23	2.92	0
2000	58	13	165	2.98	0.85	0
2000	58	14	225.96	2.18	0.23	0
2000	58	15	226.93	1.72	0.45	0
2000	58	16	295.74	1.34	-0.36	0
2000	58	17	191.61	1.9	0.78	0
2000	58	18	195.21	2.48	1.37	0
2000	58	19	226.37	2.49	2.94	0
2000	58	20	256.25	1.33	-0.05	0
2000	58	21	153.63	1.29	1.47	0.05
2000	58	22	205.17	2.68	2.58	0.01
2000	58	23	128.78	1.97	1.59	0
2000	59	0	157.53	3.25	1.36	0
2000	59	1	223.78	5.7	0.42	0.16
2000	59	2	283.15	3.89	0.48	0.02
2000	59	3	301.01	5.77	-0.87	0
2000	59	4	325.48	6.55	-1.58	0
2000	59	5	295.29	5.15	-1.4	0.01
2000	59	6	313.05	9.05	-1.38	0
2000	59	7	340.16	8.86	-1.62	0
2000	59	8	322.43	7.4	-1.87	0
2000	59	9	323.03	6.81	-2.26	0
2000	59	10	321.14	7.03	-2.52	0
2000	59	11	312.31	9.22	-2.29	0
2000	59	12	309.72	8.35	-2.32	0
2000	59	13	316.23	8.31	-2.66	0
2000	59	14	316.21	8.02	-2.72	0
2000	59	15	323.58	10.21	-2.38	0
2000	59	16	319.09	8.16	-2.25	0
2000	59	17	311.65	7.9	-1.99	0
2000	59	18	300.91	8.21	-1.87	0
2000	59	19	316.91	7.77	-1.84	0
2000	59	20	312.49	9.23	-1.97	0
2000	59	21	313.77	6.3	-1.83	0
2000	59	22	333.47	5.98	-1.71	0
2000	59	23	314.42	6.23	-1.71	0
2000	60	0	302.52	8.48	-1.83	0
2000	60	1	311.18	7.89	-1.77	0

2000	60	2	318.85	8.02	-1.78	0
2000	60	3	320.79	8.58	-1.73	0
2000	60	4	331.63	7.96	-1.66	0
2000	60	5	347.29	6.9	-1.62	0
2000	60	6	341.94	7.69	-1.62	0
2000	60	7	345.78	6.87	-1.92	0
2000	60	8	338.55	7.29	-2.25	0
2000	60	9	349.27	7.42	-2.51	0
2000	60	10	338.17	7.05	-2.87	0
2000	60	11	327.91	6.59	-3.12	0
2000	60	12	317.47	5.91	-3.21	0
2000	60	13	317.78	7.28	-3.14	0
2000	60	14	321.2	7.7	-2.93	0
2000	60	15	325.06	6.95	-2.6	0
2000	60	16	322.27	6.36	-2.27	0
2000	60	17	320.84	6.71	-1.63	0
2000	60	18	342.6	6.8	-1.23	0
2000	60	19	341.58	5.82	-1.15	0
2000	60	20	13.9	5.02	-0.87	0
2000	60	21	32.61	5.26	1.07	0
2000	60	22	7.25	5.4	0.16	0
2000	60	23	3.15	5.81	-0.6	0
2000	61	0	36.72	3.27	-0.37	0
2000	61	1	8.1	6.97	-1.07	0
2000	61	2	15.68	5.65	-1.21	0
2000	61	3	15.74	4.18	-0.09	0
2000	61	4	35.51	5.35	1.65	0
2000	61	5	63.76	3.74	1.54	0
2000	61	6	41.09	3.09	2.8	0
2000	61	7	39.66	2.1	1.78	0
2000	61	8	229.01	1.71	-0.59	0
2000	61	9	270.64	2.55	-0.59	0
2000	61	10	197.3	4.58	-2.1	0
2000	61	11	158.1	5.77	-3.15	0
2000	61	12	155.75	5.92	-3.32	0
2000	61	13	153.87	5.57	-2.87	0
2000	61	14	162.14	7.17	-2.8	0
2000	61	15	157.09	6.56	-2.26	0
2000	61	16	157.31	4.88	-1.55	0
2000	61	17	166.32	5.05	-1.37	0
2000	61	18	137.02	2.84	0.09	0.01
2000	61	19	21.66	1.42	0.48	0
2000	61	20	92.16	1.26	-0.01	0
2000	61	21	162.55	1.05	-0.47	0
2000	61	22	140.79	1.15	-0.29	0
2000	61	23	17.43	2.16	0.36	0
2000	62	0	41.86	3.48	0.64	0
2000	62	1	330.22	3.41	2.07	0
2000	62	2	309.82	7.9	-1.57	0

2000	62	3	309.47	5.87	-1.31	0
2000	62	4	318	5.6	-1.37	0
2000	62	5	297.46	5.56	-1.48	0
2000	62	6	302.37	4.17	-1.24	0
2000	62	7	303.16	6.75	-1.81	0
2000	62	8	288.43	9.26	-2.26	0
2000	62	9	292.15	9.7	-2.44	0
2000	62	10	301	7.01	-2.49	0
2000	62	11	292.69	7.99	-2.76	0
2000	62	12	291.1	10.31	-2.61	0
2000	62	13	297.98	8.93	-2.86	0
2000	62	14	300.73	9.06	-2.5	0
2000	62	15	294.09	9.22	-2.48	0
2000	62	16	301.32	9.67	-2.46	0
2000	62	17	312.47	9.51	-2.18	0
2000	62	18	317.79	9.24	-2.03	0
2000	62	19	320.57	9.17	-1.95	0
2000	62	20	321.78	8.59	-1.98	0
2000	62	21	325.07	9.2	-1.91	0
2000	62	22	325.64	7.57	-1.86	0
2000	62	23	312.63	7.69	-1.8	0
2000	63	0	320.56	5.84	-1.82	0
2000	63	1	310.94	5.72	-1.79	0
2000	63	2	312	7.37	-1.77	0
2000	63	3	331.06	6.55	-1.8	0
2000	63	4	312.1	5.77	-1.78	0
2000	63	5	324.57	8.02	-1.88	0
2000	63	6	303.75	6.42	-1.85	0
2000	63	7	314.48	6.47	-2.14	0
2000	63	8	304.21	6.69	-2.35	0
2000	63	9	294.32	6.34	-2.28	0
2000	63	10	309.25	8.88	-2.68	0
2000	63	11	304.12	9.39	-2.89	0
2000	63	12	307.58	11.06	-3.55	0
2000	63	13	302.94	10.84	-3.42	0
2000	63	14	304.9	10.32	-3.1	0
2000	63	15	301.44	8.86	-2.96	0
2000	63	16	321.71	9.25	-2.35	0
2000	63	17	322.24	9.16	-1.88	0
2000	63	18	322.75	9.93	-1.68	0
2000	63	19	323.6	9.64	-1.72	0
2000	63	20	320.02	10.77	-1.71	0
2000	63	21	330.83	9.17	-1.74	0
2000	63	22	318.59	6.01	-1.72	0
2000	63	23	333.3	7.52	-1.66	0
2000	64	0	319.45	7	-1.72	0
2000	64	1	323.5	6.58	-1.67	0
2000	64	2	325.5	5.98	-1.6	0
2000	64	3	334.62	4.19	-1.54	0

2000	64	4	321.58	4.69	-1.63	0
2000	64	5	324.07	6.51	-1.74	0
2000	64	6	345.04	6.53	-1.64	0
2000	64	7	339.42	4.98	-1.84	0
2000	64	8	324.69	5.83	-2.42	0
2000	64	9	326.1	5.55	-2.92	0
2000	64	10	336.25	6.14	-3.07	0
2000	64	11	332.45	5.19	-3.2	0
2000	64	12	295.4	5.38	-3.43	0
2000	64	13	300.69	5.32	-3.6	0
2000	64	14	307.8	5.32	-3.16	0
2000	64	15	283.91	6.52	-2.86	0
2000	64	16	295.69	6.71	-2.38	0
2000	64	17	311.46	5.14	-1.85	0
2000	64	18	292.9	5.79	-1.55	0
2000	64	19	292.12	5.44	-1.49	0
2000	64	20	315.35	4.7	-1.43	0
2000	64	21	299.36	3.23	-1.06	0
2000	64	22	213.97	3.5	-0.09	0
2000	64	23	169.64	2.95	0.59	0
2000	65	0	172.91	1.74	0.66	0
2000	65	1	151.48	1.83	1.98	0
2000	65	2	131.55	2	2.96	0
2000	65	3	146.78	1.81	4.21	0
2000	65	4	260.04	4	1.57	0
2000	65	5	306.22	6.01	-1.53	0
2000	65	6	313.02	5.34	-1.72	0
2000	65	7	301.82	5.71	-1.88	0
2000	65	8	298.61	7.37	-2.49	0
2000	65	9	316.36	6.5	-2.87	0
2000	65	10	330.43	6.58	-2.66	0
2000	65	11	317.28	7.37	-2.48	0
2000	65	12	316.99	7.54	-2.48	0
2000	65	13	327.65	8.59	-2.25	0
2000	65	14	328.39	10.59	-2.39	0
2000	65	15	352.92	9.73	-2.18	0
2000	65	16	350.62	7.91	-2.17	0
2000	65	17	342.47	7.79	-1.88	0
2000	65	18	343.43	8.12	-1.84	0
2000	65	19	329.9	8.78	-1.64	0
2000	65	20	326.31	8.24	-1.74	0
2000	65	21	323.66	6.81	-1.77	0
2000	65	22	331.01	5.54	-1.79	0
2000	65	23	320.79	5.29	-1.81	0
2000	66	0	305.02	4.32	-1.78	0
2000	66	1	305.04	4.88	-1.8	0
2000	66	2	306.24	4.23	-1.67	0
2000	66	3	330.02	3.64	-1.34	0
2000	66	4	311.12	3.56	-1.22	0

2000	66	5	295.36	3.77	-0.87	0
2000	66	6	319.99	5.59	-1.4	0
2000	66	7	342.09	5.87	-1.87	0
2000	66	8	328.76	7.54	-2.37	0
2000	66	9	321.47	7.61	-2.85	0
2000	66	10	327.09	6.36	-3.16	0
2000	66	11	339.59	9.35	-2.99	0
2000	66	12	349.16	9.86	-3.07	0
2000	66	13	357.06	8.93	-3.17	0
2000	66	14	348.64	8.64	-3.01	0
2000	66	15	351.6	8.24	-2.67	0
2000	66	16	0.7	6.67	-2.18	0
2000	66	17	357.11	5.79	-1.25	0
2000	66	18	354.39	6.17	-1.13	0
2000	66	19	13.88	4.2	-0.47	0
2000	66	20	2.45	4	-0.62	0
2000	66	21	345.83	5.18	0.17	0
2000	66	22	353.66	4.85	-0.7	0
2000	66	23	359.69	1.97	1.25	0
2000	67	0	18.81	2.82	2.02	0
2000	67	1	41.11	1.8	3.94	0
2000	67	2	30.91	2.72	4.83	0
2000	67	3	34.19	3.98	4.38	0
2000	67	4	47.89	2.9	4.47	0
2000	67	5	25.57	2.43	4.99	0
2000	67	6	28.06	2.31	4.29	0
2000	67	7	61.93	1.4	3.42	0
2000	67	8	201.64	2.26	0.59	0
2000	67	9	234.18	2.78	-0.61	0
2000	67	10	237.97	4	-0.59	0
2000	67	11	233.74	4.62	-0.86	0
2000	67	12	206.76	5.55	-1.61	0
2000	67	13	165.09	6.19	-3.16	0
2000	67	14	158.24	4.47	-2.87	0
2000	67	15	190.32	3.4	-1.73	0
2000	67	16	296.72	2.17	0.21	0
2000	67	17	217.46	1.62	1.3	0
2000	67	18	132.97	2.12	1.98	0
2000	67	19	206.51	2.38	4.42	0
2000	67	20	18.65	2.19	3.13	0
2000	67	21	49.92	2.53	2.52	0
2000	67	22	46.72	4.24	4.48	0.06
2000	67	23	27.42	2.38	5.51	0
2000	68	0	53.09	3.22	4.46	0
2000	68	1	34	4.79	5.52	0
2000	68	2	74.2	1.96	5.75	0
2000	68	3	29.71	4.29	7.79	0
2000	68	4	18.19	4.15	7.93	0
2000	68	5	37.53	4.02	7.47	0

2000	68	6	27.95	2.78	8.11	0
2000	68	7	43.07	3.4	6.03	0
2000	68	8	36.96	3.21	3.88	0
2000	68	9	13.24	2.72	0.12	0
2000	68	10	247.1	2.67	0.17	0
2000	68	11	234.35	3.17	-0.84	0
2000	68	12	181.65	5.3	-2.6	0
2000	68	13	168.39	8.19	-2.81	0
2000	68	14	163.22	7.13	-3.11	0
2000	68	15	162.81	6.93	-2.79	0
2000	68	16	167.48	7.4	-1.32	0
2000	68	17	170.06	6.65	0.59	0
2000	68	18	167.08	6.28	0.51	0
2000	68	19	160.07	4.33	0.01	0
2000	68	20	163.3	3.41	-0.26	0
2000	68	21	178.28	2.61	-1.2	0
2000	68	22	180.78	2.38	-0.95	0
2000	68	23	190.22	1.75	-1.32	0
2000	69	0	174.23	2.08	-1.31	0
2000	69	1	182.46	3.36	-1.26	0
2000	69	2	179.99	2.67	-0.59	0
2000	69	3	108.46	1.55	-0.66	0
2000	69	4	359.31	1.32	-0.52	0
2000	69	5	346.76	1.76	0.8	0
2000	69	6	7.85	1.7	1.08	0
2000	69	7	340.99	1.2	7.13	0
2000	69	8	301.43	1.52	4.95	0
2000	69	9	202.39	2.94	3.15	0
2000	69	10	177.27	3.55	0.6	0
2000	69	11	214.28	4.41	-0.53	0
2000	69	12	239.57	4.8	-0.01	0
2000	69	13	217.42	4.99	-0.88	0
2000	69	14	227.07	3.4	3.17	0.02
2000	69	15	156.23	4.66	1.5	0.03
2000	69	16	178.62	4.35	0.92	0
2000	69	17	195.39	5.39	1.19	0
2000	69	18	188.23	3.71	1.76	0
2000	69	19	145.93	2.49	2.25	0
2000	69	20	289.4	5.99	0.12	0
2000	69	21	18.55	3.24	-0.79	0
2000	69	22	331.68	2.71	-0.14	0
2000	69	23	214.65	2.37	1.51	0
2000	70	0	269.43	4.24	1.65	0
2000	70	1	302.55	7.99	-1.35	0
2000	70	2	295.38	6.72	-1.36	0
2000	70	3	306.74	6.27	-1.43	0
2000	70	4	322.23	5.68	-1.48	0
2000	70	5	309.25	8.36	-1.61	0
2000	70	6	288.52	7.92	-1.67	0

2000	70	7	295.26	8.13	-1.83	0
2000	70	8	349.02	8.36	-1.97	0
2000	70	9	0.87	7.3	-2.52	0
2000	70	10	5.71	8.52	-3.07	0
2000	70	11	7.42	8.04	-3.21	0
2000	70	12	1.4	7.68	-3.34	0
2000	70	13	5.05	8.19	-3.2	0
2000	70	14	2.57	6.74	-3.18	0
2000	70	15	2.67	6.31	-2.97	0
2000	70	16	6.28	6.2	-2.26	0
2000	70	17	5.84	6.12	-1.86	0
2000	70	18	4.56	5.41	-1.65	0
2000	70	19	1.91	5.8	-1.82	0
2000	70	20	3.02	5.47	-1.6	0
2000	70	21	11.11	5.86	-1.82	0
2000	70	22	30.75	6.73	-1.33	0
2000	70	23	36.52	4.87	-0.63	0
2000	71	0	39.98	2.92	-1.03	0
2000	71	1	60.61	3.54	-1.4	0
2000	71	2	111.75	3.54	-2	0
2000	71	3	103.34	3.48	-1.99	0
2000	71	4	127.66	3.15	-2.01	0
2000	71	5	108.46	3.34	-2	0
2000	71	6	93.43	2.78	-2.01	0
2000	71	7	108.24	3.27	-2.03	0
2000	71	8	121.5	3.97	-1.89	0
2000	71	9	107.81	3.63	-1.79	0
2000	71	10	57.5	3.95	-1.65	0.07
2000	71	11	58.17	4.69	-1.77	0
2000	71	12	62.98	4.01	-1.63	0.03
2000	71	13	47.09	4.17	-1.59	0.08
2000	71	14	23.37	3.61	-1.33	0.22
2000	71	15	33.4	4.46	-1.39	0.12
2000	71	16	17.9	5.29	-1.19	0.14
2000	71	17	12.06	6.48	-1.34	0
2000	71	18	10.22	7.13	-1.33	0
2000	71	19	11.17	6.68	-0.96	0
2000	71	20	11.6	6.58	-1.05	0
2000	71	21	16.48	6.98	-1.09	0
2000	71	22	12.3	6.63	-1.04	0.02
2000	71	23	10.05	5.4	-0.81	0.04
2000	72	0	359.83	5.8	-0.66	0.03
2000	72	1	10.85	4.61	-0.87	0
2000	72	2	350.52	2.78	-2.88	0
2000	72	3	355.45	2.42	-0.99	0
2000	72	4	348.25	1.84	-2.02	0.01
2000	72	5	354.1	2.68	-0.3	0.01
2000	72	6	49.98	3.46	2.18	0.04
2000	72	7	26.09	3.68	0.2	0.01

2000	72	8	15.95	6.06	-0.2	0
2000	72	9	36.93	4.13	-0.1	0.01
2000	72	10	151.93	3.4	-0.05	0
2000	72	11	338.62	4.44	-1.84	0
2000	72	12	333.8	4.96	-2.07	0
2000	72	13	292.2	6.04	-1.91	0
2000	72	14	294.17	9	-2.08	0
2000	72	15	298.72	9.38	-2.16	0
2000	72	16	304.78	11.28	-2.18	0
2000	72	17	328.44	9.24	-1.95	0
2000	72	18	333.77	10.44	-1.82	0
2000	72	19	339.12	9.6	-1.68	0
2000	72	20	325.41	7.1	-1.74	0
2000	72	21	322.27	7.79	-1.74	0
2000	72	22	323.96	8.89	-1.64	0
2000	72	23	327.22	7.31	-1.64	0
2000	73	0	315.41	6.67	-1.65	0
2000	73	1	282.17	6.74	-1.56	0
2000	73	2	290.32	7.05	-1.64	0
2000	73	3	303.61	5.15	-1.62	0
2000	73	4	297.56	5.32	-1.65	0
2000	73	5	298.77	5.3	-1.66	0
2000	73	6	300.54	5.97	-1.92	0
2000	73	7	306	5.39	-2.36	0
2000	73	8	299.24	5.55	-2.85	0
2000	73	9	315.71	7.05	-3.11	0
2000	73	10	322.52	6.71	-2.94	0
2000	73	11	313.05	6.57	-3.13	0
2000	73	12	324.6	5.95	-3.47	0
2000	73	13	313.37	8.11	-3.47	0
2000	73	14	321.49	7.4	-3.5	0
2000	73	15	317.07	7.22	-3.12	0
2000	73	16	323.14	6.47	-2.73	0
2000	73	17	318.08	4.13	-2.1	0
2000	73	18	329.74	2.34	-0.69	0
2000	73	19	6.14	2.2	0.27	0
2000	73	20	59.87	2.05	1.93	0
2000	73	21	45.03	1.99	3.61	0
2000	73	22	27.99	1.86	3.75	0
2000	73	23	23.89	2.32	3.24	0
2000	74	0	2.64	1.53	3.62	0
2000	74	1	18.03	2.1	2.82	0
2000	74	2	29.21	2.47	2.56	0
2000	74	3	18.32	2.91	2.41	0
2000	74	4	19.4	2.33	0.91	0
2000	74	5	19.11	2.09	1.62	0
2000	74	6	20.98	1.89	2.22	0
2000	74	7	289.77	1.2	1.3	0
2000	74	8	171.92	3.06	-0.67	0

2000	74	9	178.82	4.95	-2.18	0
2000	74	10	171.48	7.02	-3.1	0
2000	74	11	184.47	11.08	-3.18	0
2000	74	12	191.03	10.47	-3.71	0
2000	74	13	172.84	8.52	-2.74	0
2000	74	14	185.7	9.83	-2.87	0
2000	74	15	158.96	8.37	-1.8	0
2000	74	16	158.3	7.77	-1.7	0
2000	74	17	162.46	6.6	-1.22	0
2000	74	18	170.12	6.11	-0.53	0
2000	74	19	165.92	3.98	-0.11	0
2000	74	20	155.42	3.2	-0.03	0
2000	74	21	174.71	2.7	0.69	0
2000	74	22	303.06	1.9	1.41	0
2000	74	23	187.71	2.94	2.41	0
2000	75	0	307.12	1.77	2.25	0
2000	75	1	333.56	1.66	2.57	0
2000	75	2	303.55	1.57	3.11	0
2000	75	3	347.85	1.77	3.95	0
2000	75	4	356.42	1.74	4	0
2000	75	5	12.58	2.39	3.59	0
2000	75	6	21.71	2.22	3.68	0
2000	75	7	20.39	1.31	2.24	0
2000	75	8	289.18	1.8	-0.59	0
2000	75	9	193.4	2.58	-1.14	0
2000	75	10	195.41	2.53	-1.65	0
2000	75	11	186.85	4.95	-2.2	0
2000	75	12	183.62	5.7	-2.69	0
2000	75	13	163.8	5.99	-3.23	0
2000	75	14	157.32	5.95	-3.17	0
2000	75	15	151.41	8.43	-2.09	0
2000	75	16	151.58	7.19	-1.2	0
2000	75	17	152.43	5.71	1.35	0
2000	75	18	152.91	6.32	3.39	0
2000	75	19	162.54	10.27	1.59	0
2000	75	20	176.44	12.01	0.26	0
2000	75	21	173.13	8.75	0.77	0
2000	75	22	172.75	7.47	0.6	0
2000	75	23	171.33	5.58	0.52	0
2000	76	0	158.03	2.94	0.98	0
2000	76	1	153.03	2.9	1.6	0
2000	76	2	162.71	4.04	1.13	0
2000	76	3	162.9	4.72	0.57	0
2000	76	4	168	4.04	0.25	0
2000	76	5	192.72	3.06	1.15	0
2000	76	6	215.13	1.8	1.63	0
2000	76	7	179.43	4.1	0.03	0
2000	76	8	172.51	4.14	-1.98	0
2000	76	9	168.56	4.41	-2.34	0

2000	76	10	242.42	2.86	-0.34	0
2000	76	11	330.06	1.93	1.2	0
2000	76	12	205.38	2.3	1.77	0
2000	76	13	208.21	3.93	1.17	0
2000	76	14	201.51	2.66	0.92	0
2000	76	15	180.56	7.31	-0.04	0
2000	76	16	179.62	6.63	-0.88	0
2000	76	17	161.41	4.32	0.16	0
2000	76	18	154.49	2.48	0.79	0
2000	76	19	154.75	1.94	1.07	0
2000	76	20	178.91	2.66	1.96	0.04
2000	76	21	11.24	5.08	0.34	0.03
2000	76	22	12.72	5.18	-0.27	0.01
2000	76	23	9.51	6.61	-0.56	0.03
2000	77	0	10.12	10.84	-0.85	0.12
2000	77	1	8.06	11.76	-1.04	0.21
2000	77	2	7.64	11.84	-1.32	0.02
2000	77	3	6.71	12.58	-1.5	0
2000	77	4	6.82	12.85	-1.7	0
2000	77	5	7.43	14.45	-2.01	0
2000	77	6	4.75	13.05	-2.02	0.04
2000	77	7	0.53	13.34	-1.97	0.04
2000	77	8	3	12.21	-1.1	0
2000	77	9	1.06	12.09	-0.32	0
2000	77	10	1.82	14.21	-1.46	0
2000	77	11	8.12	14.62	-1.87	0
2000	77	12	3.48	12.95	-1.62	0
2000	77	13	5.8	10.68	-0.42	0
2000	77	14	358.39	9.68	-0.05	0
2000	77	15	349.39	11.63	-1.85	0
2000	77	16	352.31	10.74	-2.35	0
2000	77	17	2.02	10.15	-2.19	0
2000	77	18	5.84	9.7	-2.15	0
2000	77	19	11.9	8.75	-2.16	0
2000	77	20	8.4	9.09	-2.07	0
2000	77	21	11.11	10.37	-2.06	0
2000	77	22	9.7	9.95	-2.05	0
2000	77	23	10.57	12.15	-2.08	0
2000	78	0	8.05	11.97	-2.13	0
2000	78	1	10.8	11.61	-2.09	0
2000	78	2	13.56	14.43	-2.07	0
2000	78	3	11.2	16.04	-2.13	0
2000	78	4	11.03	13.93	-2.19	0
2000	78	5	15.02	12.68	-2.16	0
2000	78	6	17.47	10.58	-2.17	0
2000	78	7	13.64	9.42	-2.47	0
2000	78	8	8.69	9.44	-2.87	0
2000	78	9	345	6.16	-3.14	0
2000	78	10	338.07	5.42	-3.37	0

2000	78	11	338.39	5.83	-3.49	0
2000	78	12	327.05	4.99	-3.56	0
2000	78	13	332.3	5.5	-3.51	0
2000	78	14	338.58	5.45	-3.35	0
2000	78	15	307.37	4.32	-3.1	0
2000	78	16	293.49	3.55	-2.34	0
2000	78	17	318.41	2.44	-2.04	0
2000	78	18	75.21	3.11	-1.34	0
2000	78	19	44.11	3.15	-0.92	0
2000	78	20	131	1.9	-0.61	0
2000	78	21	99.67	2.6	-0.16	0
2000	78	22	147.57	2.33	-0.36	0
2000	78	23	183.16	2.51	-0.79	0
2000	79	0	113.9	1.98	-0.89	0
2000	79	1	162.39	1.38	-0.64	0
2000	79	2	13.18	2.12	-1.31	0
2000	79	3	39.9	4.04	-0.72	0
2000	79	4	25.72	4.57	-0.38	0
2000	79	5	30.17	3.67	-0.73	0
2000	79	6	46.18	3.4	-0.86	0
2000	79	7	22.95	4.16	-1.88	0
2000	79	8	53.94	4.33	-2.23	0
2000	79	9	85.42	5.11	-2.79	0
2000	79	10	174.06	5.77	-2.72	0
2000	79	11	191.07	9.59	-3.08	0
2000	79	12	184.18	9.72	-3.16	0
2000	79	13	183.51	10.68	-3.5	0
2000	79	14	186.61	10.22	-3.24	0
2000	79	15	183.33	9.26	-2.91	0
2000	79	16	173.05	7.34	-2.59	0
2000	79	17	170.54	6.32	-2.12	0
2000	79	18	170.69	5.47	-1.43	0
2000	79	19	168.22	4.04	-1.13	0
2000	79	20	169.67	3.39	-0.96	0
2000	79	21	180.56	3.35	-0.96	0
2000	79	22	160.21	2.23	-1.05	0
2000	79	23	120.82	1.98	-0.53	0
2000	80	0	24.25	1.91	0.01	0
2000	80	1	12.66	3.07	0.41	0
2000	80	2	32.07	5.63	0	0
2000	80	3	34.91	3.96	-1.09	0
2000	80	4	22.43	3.33	-1.75	0
2000	80	5	41.87	3.86	-1.82	0
2000	80	6	51.79	3.78	-1.87	0
2000	80	7	66.7	3.92	-2.09	0
2000	80	8	59.65	4.26	-2.31	0
2000	80	9	35.58	5.14	-2.48	0
2000	80	10	41.94	4.93	-2.56	0
2000	80	11	223.51	4.77	-2.84	0

2000	80	12	255.49	4.51	-2.82	0
2000	80	13	235.12	5.47	-2.9	0
2000	80	14	187.46	5.77	-2.41	0
2000	80	15	179.68	6.16	-2.57	0
2000	80	16	175.82	7.42	-2.49	0
2000	80	17	178.63	5.6	-1.95	0
2000	80	18	160.79	3.38	-1.56	0
2000	80	19	137.02	3.1	-1.88	0
2000	80	20	142.86	2.62	-1.91	0
2000	80	21	144.12	3.01	-1.94	0
2000	80	22	129.24	3.09	-1.97	0
2000	80	23	93.16	2.7	-1.93	0
2000	81	0	76.04	4.51	-1.97	0
2000	81	1	52.72	6.25	-2.08	0
2000	81	2	48.02	5.27	-2.06	0
2000	81	3	48.62	5.29	-1.95	0
2000	81	4	42.4	6.51	-1.95	0
2000	81	5	33.97	6.4	-1.91	0
2000	81	6	37.81	5.93	-2.02	0
2000	81	7	43.25	6.75	-2.08	0
2000	81	8	38.46	7.93	-2.14	0
2000	81	9	35.89	7.34	-2.21	0
2000	81	10	40.08	8.66	-2.3	0
2000	81	11	41.35	7.83	-2.34	0
2000	81	12	45.13	9.04	-2.44	0
2000	81	13	42.47	7.45	-2.32	0
2000	81	14	40.38	7.36	-2.26	0
2000	81	15	49.23	6.6	-2.18	0
2000	81	16	48.75	5.8	-2.03	0
2000	81	17	57.72	6.58	-2.01	0
2000	81	18	55.31	6.83	-1.96	0
2000	81	19	54.54	7.03	-1.96	0
2000	81	20	40.71	7.62	-2	0
2000	81	21	49.42	8.11	-1.99	0
2000	81	22	38.26	7.49	-2	0
2000	81	23	48.3	7.89	-2	0
2000	82	0	41.82	7.71	-2	0
2000	82	1	38.53	7.86	-1.97	0
2000	82	2	37.16	8.87	-2	0
2000	82	3	31.79	8.68	-2	0
2000	82	4	31.06	8.08	-1.95	0
2000	82	5	23.8	6.16	-1.98	0
2000	82	6	28.07	6.68	-1.93	0
2000	82	7	31.83	7.77	-2.05	0
2000	82	8	29.47	8.96	-2.14	0
2000	82	9	25.01	8.15	-2.32	0
2000	82	10	24.31	7.79	-2.32	0
2000	82	11	15.17	6.64	-2.51	0
2000	82	12	11.07	5.74	-2.51	0

2000	82	13	5.96	4.88	-2.44	0
2000	82	14	334.72	4.09	-2.65	0
2000	82	15	220.95	4.49	-2.12	0
2000	82	16	202.52	4.25	-2.36	0
2000	82	17	169.56	5.97	-1.75	0
2000	82	18	157.25	4.33	-0.68	0
2000	82	19	156.18	2.92	-0.42	0
2000	82	20	150.21	1.64	-0.28	0
2000	82	21	130.64	1.62	0.35	0
2000	82	22	21.24	2.23	1.19	0
2000	82	23	23.89	1.47	1.52	0
2000	83	0	120.19	1.98	1.12	0
2000	83	1	10.21	2.24	0.16	0
2000	83	2	24.98	2.75	1.4	0
2000	83	3	30.01	4.15	1.79	0
2000	83	4	19.21	2.86	2.45	0
2000	83	5	29.16	3.42	2.82	0
2000	83	6	39.39	2.89	2.52	0
2000	83	7	50.5	1.82	0.61	0
2000	83	8	223	2.61	-1.55	0
2000	83	9	211.24	2.84	-1.48	0
2000	83	10	220.63	3.83	-1.3	0
2000	83	11	347.58	5.39	-2.7	0
2000	83	12	350.6	6.73	-3.26	0
2000	83	13	343.26	6.61	-3.31	0
2000	83	14	348.05	6.16	-3.08	0
2000	83	15	2.18	5.83	-2.95	0
2000	83	16	22.18	5.99	-2.44	0
2000	83	17	7.24	4.62	-1.9	0
2000	83	18	0.67	3.86	-0.77	0
2000	83	19	19.85	2.77	1.31	0
2000	83	20	224.83	1.68	4.95	0
2000	83	21	28.1	1.68	5.15	0
2000	83	22	15.29	6.07	1.56	0
2000	83	23	10.73	5.69	0.02	0
2000	84	0	35.41	5.65	-0.02	0
2000	84	1	25.08	5.04	0.13	0
2000	84	2	8.97	3.8	0.79	0
2000	84	3	7.93	5.01	-0.39	0
2000	84	4	4.62	5.77	-0.02	0
2000	84	5	26.01	6.03	1.54	0
2000	84	6	26.67	6.3	1.26	0
2000	84	7	20.53	5.8	-0.23	0
2000	84	8	340.87	5.86	-1.91	0
2000	84	9	351.2	6.94	-2.58	0
2000	84	10	353.44	5.84	-3.15	0
2000	84	11	351.06	5.91	-3.43	0
2000	84	12	358.82	6.35	-3.35	0
2000	84	13	351.28	5.75	-3.31	0

2000	84	14	354.3	5.17	-3.13	0
2000	84	15	339.86	4.54	-2.91	0
2000	84	16	20.67	4.11	-2.44	0
2000	84	17	197.28	2.74	-1.69	0
2000	84	18	181.56	2.29	0.66	0
2000	84	19	211.13	2.32	2.02	0
2000	84	20	198.53	2.46	2.47	0
2000	84	21	241.71	2.13	2.43	0
2000	84	22	258.3	2.7	1.96	0
2000	84	23	267.55	1.83	2.36	0
2000	85	0	8.18	1.65	3.86	0
2000	85	1	356.36	2	5.35	0
2000	85	2	4.92	2.2	5.32	0
2000	85	3	22.4	1.66	5.06	0
2000	85	4	5.19	1.3	5.14	0
2000	85	5	27.82	1.12	5.08	0
2000	85	6	281.96	1.09	4.39	0
2000	85	7	170.48	1.51	1.35	0
2000	85	8	202.58	3.07	-1.16	0
2000	85	9	209.72	4.44	-1.47	0
2000	85	10	172.26	6.89	-2.26	0
2000	85	11	158.88	7.31	-2.52	0
2000	85	12	159.16	8.2	-3.55	0
2000	85	13	153.14	7.14	-1.6	0
2000	85	14	161.22	6.69	-1.69	0
2000	85	15	161.24	7	-3	0
2000	85	16	154.99	5.71	-1.82	0
2000	85	17	160.89	5.31	-0.74	0
2000	85	18	150.47	3.41	-0.09	0
2000	85	19	171.59	3.74	0.12	0
2000	85	20	199.27	2.21	0.85	0
2000	85	21	315.61	2.93	0.33	0
2000	85	22	210.37	2.56	0.57	0
2000	85	23	73.8	2.38	0.56	0
2000	86	0	50.98	4.19	2.31	0.02
2000	86	1	191.48	1.89	5.42	0
2000	86	2	130.06	2.09	7.29	0
2000	86	3	329	3.06	5.1	0
2000	86	4	317.77	2.87	-0.15	0
2000	86	5	314.97	3.85	-0.98	0
2000	86	6	323.59	5.85	-1.46	0
2000	86	7	296.11	3.58	-1.79	0
2000	86	8	283.91	8.58	-2.4	0
2000	86	9	296.35	8.86	-2.89	0
2000	86	10	308.21	7.98	-3.35	0
2000	86	11	286.62	8.86	-3.6	0
2000	86	12	294.33	9.11	-3.49	0
2000	86	13	314.27	8.15	-3.12	0
2000	86	14	303.82	7.49	-2.62	0

2000	86	15	294.48	7.63	-2.51	0
2000	86	16	287.06	7.12	-2.55	0
2000	86	17	290.77	6.64	-1.94	0
2000	86	18	281.08	5.01	-1.19	0
2000	86	19	275.21	4.47	-0.52	0
2000	86	20	308.33	4.58	-0.52	0
2000	86	21	348.32	6.35	-1.47	0
2000	86	22	18.35	7.49	-1.11	0
2000	86	23	28.17	3.79	-0.84	0
2000	87	0	21.7	2.68	0.43	0
2000	87	1	11.53	2.93	1.89	0
2000	87	2	327.03	1.79	2.82	0
2000	87	3	13.07	2.63	2.87	0
2000	87	4	21.29	3.58	3.66	0
2000	87	5	24.97	3.04	3.67	0
2000	87	6	11.49	2.12	2.73	0
2000	87	7	228.19	1.6	0.62	0
2000	87	8	173.63	4.12	-2.1	0
2000	87	9	158.85	6.21	-3.28	0
2000	87	10	165.64	8.92	-3.49	0
2000	87	11	159.83	8.99	-3.63	0
2000	87	12	166.7	9.04	-3.16	0
2000	87	13	163.73	8.71	-2.95	0
2000	87	14	162.96	8.34	-2.98	0
2000	87	15	161.39	9.13	-2.8	0
2000	87	16	160.34	6.39	-2.19	0
2000	87	17	151.99	5.82	-1.79	0
2000	87	18	154.82	4.17	-1.57	0
2000	87	19	142.24	2.74	-1.55	0
2000	87	20	62.98	2.49	-1.62	0
2000	87	21	67.02	2.63	-1.5	0
2000	87	22	49.95	2.21	-1.2	0
2000	87	23	10.24	4.32	-0.41	0
2000	88	0	3.8	5.88	-0.61	0.07
2000	88	1	22.68	3.55	0.48	0.21
2000	88	2	15.79	4.29	0.13	0.16
2000	88	3	12.27	4.55	-1.86	0.28
2000	88	4	3.39	3.96	0.61	0.12
2000	88	5	29.87	2.05	1.6	0.03
2000	88	6	156.31	5.78	-1.65	0
2000	88	7	211.52	4.54	-1.79	0
2000	88	8	263.37	6.72	-1.63	0
2000	88	9	247.84	4.9	-2.02	0
2000	88	10	225.74	4.81	-2.12	0
2000	88	11	249.84	8.09	-2.41	0
2000	88	12	262.47	8.96	-2.59	0
2000	88	13	265.73	10.08	-2.86	0
2000	88	14	271.36	9.54	-2.77	0
2000	88	15	267.11	8.27	-2.73	0

2000	88	16	220.95	4.95	-2.34	0
2000	88	17	175.82	6.17	-1.27	0
2000	88	18	194.19	9.81	-1.15	0
2000	88	19	190.88	9.24	-1.06	0
2000	88	20	191.21	9.92	-1.38	0
2000	88	21	185.56	8.35	-1.28	0
2000	88	22	184.68	8.42	-1.48	0
2000	88	23	187.44	5.34	-1.52	0
2000	89	0	179.37	4.8	-1.4	0
2000	89	1	183.73	4.44	-1.4	0
2000	89	2	192.11	3.69	-0.95	0
2000	89	3	261.59	4.33	-0.91	0
2000	89	4	204.39	3.37	-0.85	0
2000	89	5	168.45	3.5	0.07	0
2000	89	6	199.9	3.9	-1.08	0
2000	89	7	210.98	6.31	-2.24	0
2000	89	8	247.49	8.54	-2.49	0
2000	89	9	246.53	9.76	-2.85	0
2000	89	10	245.47	9.79	-2.57	0
2000	89	11	255.38	10.57	-2.54	0
2000	89	12	246.15	10.12	-2.42	0
2000	89	13	251.17	10.38	-2.33	0
2000	89	14	284.08	8.58	-2.35	0
2000	89	15	278.93	7.26	-1.74	0
2000	89	16	275.68	8.9	-2.21	0
2000	89	17	276.65	7.68	-1.95	0
2000	89	18	269.93	6.92	-1.68	0
2000	89	19	270.43	5.39	-1.6	0
2000	89	20	261.1	5.24	-1.6	0
2000	89	21	271.75	6.08	-1.38	0
2000	89	22	279.86	6.5	-1.42	0
2000	89	23	276.33	6.24	-1.5	0
2000	90	0	262.82	4.62	-1.43	0
2000	90	1	220.84	3.3	-1.11	0
2000	90	2	231.9	2.64	-0.51	0
2000	90	3	219.93	2.3	1.12	0
2000	90	4	225.99	2.16	0.61	0
2000	90	5	184.37	2.97	-0.01	0
2000	90	6	193.72	3.97	-0.61	0
2000	90	7	244.17	4.94	-1.81	0
2000	90	8	245.65	5.24	-2.69	0
2000	90	9	278.06	6.91	-2.72	0
2000	90	10	274.58	4.74	-2.84	0
2000	90	11	268.6	5.32	-2.97	0
2000	90	12	330.56	5.23	-2.95	0
2000	90	13	331.91	4.68	-2.49	0
2000	90	14	309.32	4.99	-3.12	0
2000	90	15	318.55	4.62	-2.85	0
2000	90	16	332.09	5.86	-2.37	0

2000	90	17	341.09	6.5	-1.97	0
2000	90	18	334.57	6.92	-1.71	0
2000	90	19	330.43	7.06	-1.72	0
2000	90	20	328.65	6.96	-1.61	0
2000	90	21	336.41	6.81	-1.6	0
2000	90	22	336.63	7.19	-1.65	0
2000	90	23	329.11	4.99	-1.56	0
2000	91	0	327.67	5.84	-1.21	0
2000	91	1	331.45	5.01	-1.12	0
2000	91	2	328.63	5.34	-0.8	0
2000	91	3	338.44	4.59	-1.16	0
2000	91	4	339.25	4.73	0.18	0
2000	91	5	104.35	2.87	0.25	0
2000	91	6	132.4	2.35	0.02	0
2000	91	7	125.06	3.26	-1.54	0
2000	91	8	321.92	4.97	-3.07	0
2000	91	9	343.88	4.96	-3.12	0
2000	91	10	2.09	7.16	-3.2	0
2000	91	11	4.71	6.63	-3.06	0
2000	91	12	5.67	7.04	-2.84	0
2000	91	13	349.18	5.91	-2.75	0
2000	91	14	296.28	6.59	-3.07	0
2000	91	15	298.7	7.53	-2.99	0
2000	91	16	331.61	7.64	-2.78	0
2000	91	17	337.5	6.06	-2.32	0
2000	91	18	350.93	6.28	-1.6	0
2000	91	19	24.51	7.53	-1.71	0
2000	91	20	27	4.52	-1.32	0
2000	91	21	4.06	2.11	-0.31	0
2000	91	22	81.63	2.32	1.46	0
2000	91	23	22.28	2.13	2.95	0
2000	92	0	20.85	2.32	3.37	0
2000	92	1	53.44	3.42	4.39	0
2000	92	2	358.44	2.1	5.15	0
2000	92	3	21.18	3.36	5.82	0
2000	92	4	25.1	2.67	5.88	0
2000	92	5	17.69	3.23	5.19	0
2000	92	6	35.28	2.8	4.9	0
2000	92	7	180.98	1.94	0.47	0
2000	92	8	261.64	2.59	-0.5	0
2000	92	9	226.28	3.82	-1.08	0
2000	92	10	172.2	4.86	-1.88	0
2000	92	11	213.58	4.41	-2.53	0
2000	92	12	230.67	4.97	-2.83	0
2000	92	13	246.19	5.92	-3.05	0
2000	92	14	180.14	5.49	-2.86	0
2000	92	15	186.54	4.99	-2.46	0
2000	92	16	158.91	4.33	-2.58	0
2000	92	17	162.76	6.2	-1.52	0

2000	92	18	152.35	6.68	-0.25	0
2000	92	19	152.61	4.69	0.19	0
2000	92	20	174.63	2.55	0.39	0
2000	92	21	250.61	1.96	0.68	0
2000	92	22	228.22	1.63	0.68	0
2000	92	23	287.45	1.46	0.84	0
2000	93	0	179.49	1.43	0.55	0
2000	93	1	346.35	1.54	2.07	0
2000	93	2	22.07	1.51	2.91	0
2000	93	3	12.18	1.61	2.88	0
2000	93	4	322.76	1.49	3.63	0
2000	93	5	128.4	1.49	3.33	0
2000	93	6	355.09	1.29	3.13	0
2000	93	7	325.27	1.23	1.09	0
2000	93	8	191.98	2.68	-0.76	0
2000	93	9	201.31	4.37	-1.39	0
2000	93	10	186.87	4.01	-1.91	0
2000	93	11	161.44	6.2	-3	0
2000	93	12	162.21	6.79	-2.35	0
2000	93	13	185.37	11.75	-2.6	0
2000	93	14	192.16	11.08	-2.73	0
2000	93	15	187.28	11.24	-2.46	0
2000	93	16	191.7	12.22	-2.09	0
2000	93	17	187.89	9.17	-1.4	0
2000	93	18	187.76	7.21	-0.85	0
2000	93	19	185.37	5.42	-0.89	0
2000	93	20	182.63	7.28	-0.7	0
2000	93	21	185.11	7.6	-1.14	0
2000	93	22	187.93	6.49	-1.52	0
2000	93	23	182.21	4.54	-1.41	0
2000	94	0	167.85	3.26	-0.56	0
2000	94	1	184.66	5.07	-1.3	0
2000	94	2	136.49	1.95	-0.99	0
2000	94	3	165.38	2.01	-0.54	0
2000	94	4	192.06	1.52	0.01	0
2000	94	5	159.14	2.04	0.29	0
2000	94	6	233.76	1.72	1.49	0
2000	94	7	229.71	1.98	0.51	0
2000	94	8	166.81	2.75	0.45	0
2000	94	9	172.19	3.58	-1.18	0
2000	94	10	157.15	5.14	-2.11	0
2000	94	11	162.28	5.2	-2.65	0
2000	94	12	155.01	4.95	-2.79	0
2000	94	13	149.45	5.19	-2.97	0
2000	94	14	149.37	5.68	-2.9	0
2000	94	15	152.95	5.72	-2.45	0
2000	94	16	154.93	6.07	-1.67	0
2000	94	17	153.39	4.9	-1.43	0
2000	94	18	162.21	3.87	-0.43	0

		DT U/L Intepolation
		Delta 0.003333333
1	1	-0.243333333
1	1	-0.246666667
1	1	-0.25
1	1	-0.253333333
1	1	-0.256666667
1	1	-0.26
1	1	-0.263333333
1	1	-0.266666667
		-0.27

2000	94	19	218.07	2.51	0.79	0
2000	94	20	200.69	3.06	1.35	0
2000	94	21	187.74	1.86	0.7	0
2000	94	22	165.37	3.83	0.07	0
2000	94	23	190.71	2.93	1.42	0
2000	95	0	183.61	5.67	-0.24	0.06
2000	95	1	164.29	3.18	-0.24	0.43
2000	95	2	160.65	5.44	-0.25	0
2000	95	3	167.72	5.55	-0.25	0
2000	95	4	165.74	5.38	-0.25	0
2000	95	5	163.7	4.54	-0.26	0
2000	95	6	157.89	3.64	-0.26	0.05
2000	95	7	268.66	1.8	-0.26	0
2000	95	8	199.25	2.99	-0.27	0
2000	95	9	179.39	8.78	-0.27	0
2000	95	10	183.33	11.57	-1.14	0
2000	95	11	186.25	11.73	-1.92	0
2000	95	12	188.67	11.58	-1.57	0
2000	95	13	187.44	12.16	-1.76	0
2000	95	14	189.43	9.58	-1.68	0
2000	95	15	243.51	7.49	-1.23	0.03
2000	95	16	287.68	5.82	-1.7	0
2000	95	17	283.39	4.93	-1.75	0
2000	95	18	271.39	4.36	-1.56	0
2000	95	19	273.43	5.65	-1.52	0
2000	95	20	289.75	8.54	-1.71	0
2000	95	21	310.44	9.17	-2.04	0
2000	95	22	310.2	8.91	-2.03	0
2000	95	23	309.15	9.35	-2.01	0
2000	96	0	309.48	7.34	-1.78	0
2000	96	1	297.51	4.62	-1.73	0
2000	96	2	291.64	7.74	-1.79	0
2000	96	3	278.63	6.05	-1.66	0
2000	96	4	293.28	5.52	-1.75	0
2000	96	5	303.77	6.44	-1.85	0
2000	96	6	299.06	6.27	-2.13	0
2000	96	7	286.24	7.51	-2.39	0
2000	96	8	295.33	9.48	-2.78	0
2000	96	9	299.36	8.29	-2.72	0
2000	96	10	300.23	8.42	-2.9	0
2000	96	11	281.65	9.73	-2.78	0
2000	96	12	284.01	9.79	-2.88	0
2000	96	13	291.83	10.76	-3.2	0
2000	96	14	292.31	10.54	-2.77	0
2000	96	15	292.22	11.4	-2.63	0
2000	96	16	290.11	9.6	-2.82	0
2000	96	17	294.46	8.06	-2.49	0
2000	96	18	288.17	6.23	-1.9	0
2000	96	19	287.24	5.31	-1.71	0

2000	96	20	284.71	4.32	-1.63	0
2000	96	21	277.68	3.36	-1.58	0
2000	96	22	283.61	2.92	-1.26	0
2000	96	23	266.76	2.87	-1.29	0
2000	97	0	247.99	2.53	-1	0
2000	97	1	186.45	2.12	-0.61	0
2000	97	2	218.98	2.2	-0.17	0
2000	97	3	160.59	2.48	0.29	0
2000	97	4	156.66	2.95	-0.49	0
2000	97	5	148.1	2.03	-0.24	0
2000	97	6	189.97	3.41	-1.33	0
2000	97	7	193.36	2.99	-1.97	0
2000	97	8	182.57	3.77	-2.08	0
2000	97	9	235.1	2.77	-0.58	0
2000	97	10	44.19	2.12	0.34	0
2000	97	11	197.3	5.27	-1.93	0
2000	97	12	156.08	7.42	-3.39	0
2000	97	13	180.28	8.11	-3.43	0
2000	97	14	226.35	8.68	-3	0
2000	97	15	239.09	8.58	-2.56	0
2000	97	16	228.29	6.43	-2	0
2000	97	17	198.23	5.81	-1.1	0
2000	97	18	220.84	4.16	-0.26	0
2000	97	19	331.37	12.16	-1.45	0
2000	97	20	336.42	8.15	-1.43	0
2000	97	21	329.13	6.94	-1.39	0
2000	97	22	313.88	7.38	-1.49	0
2000	97	23	308.61	7.62	-1.59	0
2000	98	0	302.74	4.93	-1.4	0
2000	98	1	267.69	3.48	-1.28	0
2000	98	2	302.21	4.42	-1.25	0
2000	98	3	335.92	4.45	-1.46	0
2000	98	4	312.98	5.18	-1.55	0
2000	98	5	291.51	3.37	-1.2	0
2000	98	6	284.37	5.07	-1.65	0
2000	98	7	292.15	4.53	-2.62	0
2000	98	8	312.45	4.78	-2.97	0
2000	98	9	309	4.9	-2.92	0
2000	98	10	267.84	4.46	-2.93	0
2000	98	11	241.82	3.76	-2.51	0
2000	98	12	165.71	5.37	-2.75	0
2000	98	13	153.04	5.09	-2.97	0
2000	98	14	151.32	4.89	-2.69	0
2000	98	15	153.42	4.46	-2.49	0
2000	98	16	167.49	3.55	-1.94	0
2000	98	17	154.25	4.65	-1.23	0
2000	98	18	158.89	4.77	-0.73	0
2000	98	19	163.89	3.18	0.07	0
2000	98	20	174.55	3.78	-0.15	0

2000	98	21	188.95	2.5	-0.46	0
2000	98	22	179.92	3.39	-0.25	0
2000	98	23	189.21	5.76	-1.24	0
2000	99	0	194.42	4.16	-0.99	0
2000	99	1	222.46	2.23	-0.52	0
2000	99	2	208.39	1.98	-0.56	0
2000	99	3	213.18	1.79	-0.9	0
2000	99	4	203.73	1.93	-1.02	0
2000	99	5	190.73	2.76	-0.96	0
2000	99	6	180.05	3.03	-1.32	0
2000	99	7	173.36	4.63	-2.01	0
2000	99	8	168.85	5.68	-2.65	0
2000	99	9	156.18	6.7	-3.45	0
2000	99	10	156.46	9.23	-3.67	0
2000	99	11	160.27	9.36	-3.9	0
2000	99	12	155.97	10.92	-3.64	0
2000	99	13	161.08	12.61	-3.39	0
2000	99	14	158.54	13	-3.11	0
2000	99	15	159.42	13.81	-2.53	0
2000	99	16	161.53	13.59	-1.92	0
2000	99	17	158.64	11.56	-0.54	0
2000	99	18	158.7	10.55	-0.7	0
2000	99	19	240.83	6.25	-1.64	0
2000	99	20	294.03	4.71	-2.19	0
2000	99	21	293.72	5.22	-2.15	0
2000	99	22	340.16	6.04	-2.11	0
2000	99	23	329.02	7.33	-2.15	0
2000	100	0	341.32	7.37	-2.03	0
2000	100	1	345.53	8.41	-1.98	0
2000	100	2	351.26	8.85	-1.94	0.03
2000	100	3	326.49	7.2	-1.94	0.12
2000	100	4	333.86	7.76	-1.95	0.02
2000	100	5	330.17	8.06	-1.85	0
2000	100	6	340.92	10.04	-1.24	0.01
2000	100	7	320	8.4	0.66	0.02
2000	100	8	310.59	9.71	0.85	0.04
2000	100	9	317.57	13.19	0.32	0.01
2000	100	10	315.16	10.34	0.07	0.03
2000	100	11	297.08	9.29	-0.22	0.01
2000	100	12	294.06	9.18	-0.74	0.01
2000	100	13	283.37	7.93	0.19	0
2000	100	14	282.45	9.74	9.56	0
2000	100	15	276.8	9.08	-1.98	0
2000	100	16	280.99	7.54	-1.83	0
2000	100	17	288.64	6.84	-1.81	0
2000	100	18	271.52	6.26	-1.48	0
2000	100	19	271.12	5.75	-1.38	0
2000	100	20	258.65	4.9	-1.41	0
2000	100	21	287.61	6.41	-1.45	0

2000	100	22	272.14	4.77	-1.44	0
2000	100	23	262.9	6.39	-1.34	0
2000	101	0	259.61	6.6	-1.41	0
2000	101	1	234.16	3.84	-1.37	0
2000	101	2	213.03	3.72	-1.28	0
2000	101	3	182.34	3.68	-1.05	0
2000	101	4	178.38	3.96	-0.74	0
2000	101	5	185.14	3.32	-1.06	0
2000	101	6	197.4	3.2	-1.73	0
2000	101	7	209.06	5.68	-2.29	0
2000	101	8	282.19	5.7	-2.85	0
2000	101	9	289.37	8.64	-3.15	0
2000	101	10	272.04	9.04	-3.51	0
2000	101	11	275.47	9.16	-3.57	0
2000	101	12	290.08	8.64	-3.6	0
2000	101	13	309.54	7.31	-3.59	0
2000	101	14	293.33	9.23	-3.41	0
2000	101	15	313.64	7.72	-3.36	0
2000	101	16	306.35	7.08	-3.04	0
2000	101	17	323.44	6.15	-2.55	0
2000	101	18	336.65	5.98	-1.87	0
2000	101	19	353.78	6.37	-1.72	0
2000	101	20	350.5	7.15	-1.69	0
2000	101	21	344.61	5.08	-1.63	0
2000	101	22	357.93	4.2	-1.56	0
2000	101	23	25.43	3.24	-0.75	0
2000	102	0	31.79	4.48	-1.03	0
2000	102	1	40.43	3.73	-1.13	0
2000	102	2	89.97	2.28	-0.66	0
2000	102	3	126.63	1.96	-0.59	0
2000	102	4	60.38	2.08	-0.13	0
2000	102	5	14.5	2.65	-0.13	0
2000	102	6	26.42	3.79	-0.73	0
2000	102	7	26.7	3.5	-1.92	0
2000	102	8	12.93	2.64	-2.02	0
2000	102	9	206.84	3.92	-2.09	0
2000	102	10	164.48	5.84	-2.42	0
2000	102	11	194.52	5.08	-2.21	0
2000	102	12	190.12	4.57	-2.21	0
2000	102	13	167.37	2.95	-2.16	0
2000	102	14	86.88	3.33	-2.29	0
2000	102	15	53.9	3.82	-2.32	0
2000	102	16	51.89	2.29	-2.14	0
2000	102	17	111.3	2.4	-2.23	0
2000	102	18	106.71	2.44	-2.05	0
2000	102	19	104.61	1.83	-1.81	0
2000	102	20	107.71	2	-1.73	0
2000	102	21	150.63	2.04	-1.74	0
2000	102	22	122.42	1.75	-1.64	0

						2000	102	23	87.35	1.64	-1.56	0
						2000	103	0	71.96	1.9	-1.22	0
						2000	103	1	231.48	1.86	-0.88	0
						2000	103	2	262.19	1.68	-0.95	0
						2000	103	3	86.15	2.01	-0.98	0
						2000	103	4	116.06	1.73	-0.66	0
						2000	103	5	276	3.38	-0.48	0
						2000	103	6	293.01	7.15	-2	0
						2000	103	7	309.88	8.88	-2.72	0
						2000	103	8	305.52	9.52	-3.14	0
						2000	103	9	305.56	7.89	-3.49	0
						2000	103	10	310.95	8.43	-3.7	0
						2000	103	11	326.47	8.51	-3.63	0
						2000	103	12	314.71	10.25	-3.88	0
						2000	103	13	324.36	10.04	-3.72	0
						2000	103	14	315.66	10.5	-3.61	0
						2000	103	15	321.24	10.83	-3.35	0
						2000	103	16	319.11	8.86	-3.09	0
						2000	103	17	327.25	9.76	-2.52	0
						2000	103	18	333.23	7.66	-2.05	0
						2000	103	19	338.78	5.81	-1.74	0
						2000	103	20	310.98	4.89	-1.65	0
						2000	103	21	306.6	4.65	-1.59	0
						2000	103	22	303.15	3.95	-1.41	0
						2000	103	23	315.75	3.04	-1.34	0
						2000	104	0	326.02	4.68	-1.33	0
						2000	104	1	322.68	5.15	-1.71	0
						2000	104	2	0.67	4.39	-1.46	0
						2000	104	3	330.57	3.44	-1.23	0
						2000	104	4	2.49	2.59	-0.89	0
						2000	104	5	359.05	2.67	0.07	0
						2000	104	6	35.32	3.11	-0.56	0
			WD-10	WS-10	DT U/L	2000	104	7	28.69	3.15	-1.89	0
			378.92	4.64	-2.4	2000	104	8	18.92	4.64	-2.4	0
1	1		359.48	4.69	-2.80	2000	104	9	359.48	4.6867	-2.797	0
1	1		340.04	4.73	-3.19	2000	104	10	340.04	4.7333	-3.193	0
			320.6	4.78	-3.59	2000	104	11	320.6	4.78	-3.59	0
						2000	104	12	262.91	4.4	-2.91	0
						2000	104	13	332.41	3.58	-2.96	0
						2000	104	14	265.79	4.01	-2.62	0
						2000	104	15	165.28	5.62	-3.09	0
			WD-10	WS-10	DT U/L	2000	104	16	162.88	6.26	-3.18	0
						2000	104	17	164.67	7.26	-2.67	0
1	1		172.555	8.705	-2.17	2000	104	18	172.555	8.705	-2.17	0
						2000	104	19	180.44	10.15	-1.67	0
						2000	104	20	177.88	7.26	-1.76	0
						2000	104	21	183.35	6.88	-1.41	0
						2000	104	22	186.95	7.62	-1.44	0
						2000	104	23	185.24	7.43	-1.63	0

2000	105	0	186.45	5.11	-1.38	0
2000	105	1	180.33	4.75	-1.1	0
2000	105	2	199.98	2.67	-1.06	0
2000	105	3	255.79	2.02	-0.59	0
2000	105	4	356.07	2.19	0.11	0
2000	105	5	14.88	2.98	0.42	0
2000	105	6	20.72	3.32	0.35	0
2000	105	7	6.74	2.2	-1.57	0
2000	105	8	174.07	5.15	-2.67	0
2000	105	9	171.71	6.22	-3.07	0
2000	105	10	157.04	6.57	-3.84	0
2000	105	11	162.95	9.1	-3.72	0
2000	105	12	160.58	8.91	-4.04	0
2000	105	13	153.35	8.11	-4.36	0
2000	105	14	149.62	8.04	-3.91	0
2000	105	15	152.62	7.91	-3.7	0
2000	105	16	154.42	7.91	-3.3	0
2000	105	17	156.89	8.16	-2.43	0
2000	105	18	161.64	8	-1.54	0
2000	105	19	164.19	6	-1.2	0
2000	105	20	173.36	6.61	-1.24	0
2000	105	21	184.96	4.41	-1.03	0
2000	105	22	219.71	1.99	-0.82	0
2000	105	23	201.93	1.72	-0.22	0
2000	106	0	194.56	1.49	0.44	0
2000	106	1	174.33	1.44	1.3	0
2000	106	2	74.17	1.72	1.14	0
2000	106	3	355.69	1.48	1.2	0
2000	106	4	356.37	1.91	1.48	0
2000	106	5	21.37	4.41	1.92	0
2000	106	6	9.47	2.67	0.38	0
2000	106	7	36.64	2.76	-0.81	0
2000	106	8	69.85	3.12	-1.57	0
2000	106	9	179.47	3.86	-2.04	0
2000	106	10	218.05	2.03	-2.17	0
2000	106	11	257.96	2.79	-1.7	0
2000	106	12	208.57	4.64	-2.13	0
2000	106	13	166.72	6.29	-2.88	0
2000	106	14	160.66	5.63	-2.97	0
2000	106	15	158.01	5.66	-3.02	0
2000	106	16	157.73	5.08	-1.39	0
2000	106	17	160.49	3.78	-0.83	0
2000	106	18	158.63	3.32	-0.19	0
2000	106	19	158.37	4.18	-0.35	0
2000	106	20	167.73	2.72	0.06	0
2000	106	21	185.31	1.14	0.56	0
2000	106	22	185.29	1.69	-0.02	0
2000	106	23	185.31	1.12	0.44	0
2000	107	0	185.32	1.45	0.37	0

2000	107	1	185.23	2.22	0.56	0
2000	107	2	183.71	2.81	-0.15	0
2000	107	3	184.13	2.65	-0.37	0
2000	107	4	184.25	2.06	-0.03	0
2000	107	5	57.2	3.04	0.99	0
2000	107	6	32.62	1.76	0.51	0
2000	107	7	32.64	1.54	0.16	0
2000	107	8	31.94	1.41	0.03	0
2000	107	9	26.62	2.34	0.01	0
2000	107	10	182.53	3.9	0.67	0
2000	107	11	222.76	3.82	-1.3	0
2000	107	12	197.17	4.67	0.04	0
2000	107	13	195.45	5.05	0.82	0
2000	107	14	218.39	3.46	2.35	0
2000	107	15	218.95	3.79	1.15	0
2000	107	16	227.59	2.85	0.43	0
2000	107	17	1.48	9.76	-1.5	0
2000	107	18	12.39	10.58	-1.94	0
2000	107	19	20.91	7.99	-2.11	0
2000	107	20	15.89	9.14	-2.17	0
2000	107	21	2.44	10.98	-1.98	0
2000	107	22	8.4	9.18	-2.03	0
2000	107	23	6.72	7.13	-2	0
2000	108	0	5.9	8.15	-2.04	0
2000	108	1	12.27	7.07	-2.21	0
2000	108	2	4.82	5.97	-2.17	0
2000	108	3	12.41	6.1	-2.23	0
2000	108	4	8.53	6.67	-2.22	0
2000	108	5	7	6.05	-2.18	0
2000	108	6	13.78	4.78	-2.23	0
2000	108	7	28.2	4.99	-2.28	0
2000	108	8	31.64	5.98	-2.38	0
2000	108	9	57.13	4.77	-2.36	0
2000	108	10	58.34	3.17	-2.07	0.05
2000	108	11	26.45	3.22	-1.96	0.05
2000	108	12	119.33	3.25	-1.89	0.04
2000	108	13	104.72	4.09	-1.81	0.01
2000	108	14	129.49	2.81	-1.8	0.01
2000	108	15	106.49	3.52	-1.79	0.01
2000	108	16	99.56	2.59	-1.68	0
2000	108	17	82.73	2.77	-1.59	0
2000	108	18	88.97	3.21	-1.65	0.02
2000	108	19	113.75	3.05	-1.57	0
2000	108	20	77.16	1.43	-1.71	0
2000	108	21	89.03	3.24	-1.59	0.01
2000	108	22	111.51	2.3	-1.45	0.01
2000	108	23	58.53	4.08	-1.76	0
2000	109	0	48.2	5.3	-1.85	0.01
2000	109	1	30.88	8.21	-2.09	0.01

2000	109	2	25.16	8	-2.02	0
2000	109	3	22.2	8.55	-2.14	0
2000	109	4	19.97	7.79	-2.13	0.02
2000	109	5	15.31	7.3	-2.17	0.1
2000	109	6	13.81	7.85	-2.27	0.04
2000	109	7	17.82	9.45	-2.27	0
2000	109	8	16.83	9.67	-2.43	0
2000	109	9	16.37	8.29	-2.54	0
2000	109	10	13.78	6.9	-2.56	0
2000	109	11	33.27	9.4	-2.48	0
2000	109	12	33.61	8.72	-2.42	0
2000	109	13	30.38	8.22	-2.38	0
2000	109	14	20.83	8.63	-2.49	0
2000	109	15	24.2	8.83	-2.31	0
2000	109	16	28.7	8.88	-2.17	0
2000	109	17	31.27	10.22	-2.1	0
2000	109	18	22.02	8.77	-2.05	0
2000	109	19	26.02	10.28	-2.05	0
2000	109	20	24.62	9.45	-2.04	0
2000	109	21	27.18	9.74	-2.04	0
2000	109	22	24.9	8.76	-2.05	0
2000	109	23	15.27	8.95	-2.34	0
2000	110	0	12.36	6.7	-2.25	0
2000	110	1	14.99	7.27	-2.62	0
2000	110	2	15.3	7.84	-2.21	0
2000	110	3	12.51	7.89	-2.57	0
2000	110	4	9.74	7.93	-2.25	0
2000	110	5	8.01	7.96	-2.65	0
2000	110	6	5.72	8.71	-2.28	0
2000	110	7	9.32	8.7	-2.39	0
2000	110	8	7.37	7.48	-2.72	0
2000	110	9	355.04	7.27	-2.85	0
2000	110	10	353.2	8.33	-3.33	0
2000	110	11	349.1	8.52	-3.49	0
2000	110	12	342.71	8.02	-3.46	0
2000	110	13	340.42	6.65	-3.41	0
2000	110	14	336.23	6.18	-3.53	0
2000	110	15	338.31	6.39	-3.14	0
2000	110	16	346.18	6.02	-3.07	0
2000	110	17	346.64	5.91	-2.23	0
2000	110	18	1.96	5.06	-1.52	0
2000	110	19	7.39	5.09	-1.36	0
2000	110	20	55.24	3.88	-0.96	0
2000	110	21	37.77	4.3	-1.86	0
2000	110	22	43.17	3.15	-1.88	0
2000	110	23	37.24	2.78	-2	0
2000	111	0	344.51	2.42	-1.79	0
2000	111	1	27.27	2.62	-1.63	0
2000	111	2	14.58	2.02	-1.09	0

2000	111	3	171.4	1.78	-0.29	0
2000	111	4	96.3	1.98	-0.2	0
2000	111	5	33.98	2.16	-0.44	0
2000	111	6	46.95	1.57	-0.84	0
2000	111	7	354.32	2.03	-1.59	0
2000	111	8	346.72	2.83	-1.73	0
2000	111	9	341.16	3.32	-2.46	0
2000	111	10	9.02	4.31	-2.64	0
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2000	111	12	193.91	6.05	-2.34	0
2000	111	13	176.07	4.09	-2.12	0
2000	111	14	154.71	2.41	-2.14	0
2000	111	15	159.47	4.3	-1.4	0
2000	111	16	168.44	3.4	-1.44	0
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2000	111	18	167.51	6.68	-1.24	0
2000	111	19	155.43	5.24	-1.44	0
2000	111	20	164.87	6.83	-1.75	0
2000	111	21	157.6	4.1	-1.83	0
2000	111	22	152.86	4.16	-1.98	0
2000	111	23	162.03	5.37	-1.99	0
2000	112	0	162.9	6.79	-2.02	0
2000	112	1	160.36	5.77	-2.02	0
2000	112	2	165.99	5.48	-1.94	0
2000	112	3	167.23	4.55	-1.95	0
2000	112	4	162.83	4.28	-1.96	0
2000	112	5	160.34	3.24	-1.87	0
2000	112	6	147.37	3.25	-1.79	0
2000	112	7	152.52	4.21	-1.85	0
2000	112	8	126.29	3.93	-1.81	0
2000	112	9	121.4	3.71	-1.89	0.01
2000	112	10	105.53	3.43	-1.67	0.01
2000	112	11	101.69	3.59	-1.79	0.08
2000	112	12	54.07	3.45	-1.74	0.07
2000	112	13	58.88	3.18	-1.85	0.06
2000	112	14	30.27	4.89	-1.83	0.14
2000	112	15	46.53	5.31	-1.84	0.06
2000	112	16	57.44	4.97	-1.73	0.1
2000	112	17	20.35	6.42	-1.83	0.04
2000	112	18	24.75	7.79	-1.75	0.36
2000	112	19	16.67	7.24	-1.9	0
2000	112	20	27.41	8.09	-1.88	0
2000	112	21	24.81	8.94	-1.91	0
2000	112	22	30.05	8	-1.96	0
2000	112	23	24.18	7.49	-1.87	0
2000	113	0	16.71	8.08	-1.91	0.01
2000	113	1	22.13	8.54	-1.99	0
2000	113	2	21.05	8.19	-1.9	0
2000	113	3	8.71	7.66	-2.16	0

2000	113	4	10.5	8.68	-2.33	0
2000	113	5	13.59	8.9	-2.54	0
2000	113	6	6.21	8.55	-2.59	0
2000	113	7	4.63	8.78	-2.64	0
2000	113	8	8.03	8.82	-2.67	0
2000	113	9	4.89	8.69	-2.89	0
2000	113	10	4.58	8.88	-2.98	0
2000	113	11	6.65	9.59	-3.04	0
2000	113	12	2.53	9.61	-3.13	0
2000	113	13	0.99	8.69	-3.15	0
2000	113	14	1.12	8.81	-3.05	0
2000	113	15	0.46	8.26	-2.75	0
2000	113	16	4.88	8.88	-2.34	0
2000	113	17	5.39	8.55	-2.57	0
2000	113	18	4.49	7.99	-2.48	0
2000	113	19	4.28	8.2	-2.44	0
2000	113	20	8.55	9.17	-2.49	0
2000	113	21	9.59	9.43	-2.44	0
2000	113	22	9.32	8.55	-2.23	0
2000	113	23	5.92	7.48	-2.11	0
2000	114	0	356.94	6.73	-2.05	0
2000	114	1	359.52	7.51	-2.08	0
2000	114	2	3.5	7.91	-2.36	0
2000	114	3	8.34	7.68	-2.27	0
2000	114	4	1.65	7.23	-2.34	0.01
2000	114	5	0.79	8.66	-2.67	0.05
2000	114	6	3.93	7.74	-2.59	0.01
2000	114	7	6.71	7.3	-2.7	0.03
2000	114	8	359.18	7.13	-2.76	0.08
2000	114	9	2.4	8.05	-2.82	0.02
2000	114	10	351.87	6.8	-3.04	0.01
2000	114	11	337.1	4.53	-2.51	0
2000	114	12	343.96	4.89	-2.34	0
2000	114	13	11.88	5.36	-2.14	0.02
2000	114	14	15.93	4.06	-1.88	0.07
2000	114	15	345.86	4.47	-1.84	0.01
2000	114	16	322.64	5.92	-1.9	0.03
2000	114	17	328.42	5.67	-1.78	0
2000	114	18	328.46	4.75	-1.86	0
2000	114	19	329.34	6	-1.87	0
2000	114	20	319.39	4.29	-1.82	0
2000	114	21	305.93	5.02	-1.92	0
2000	114	22	288.11	5.48	-1.84	0
2000	114	23	306.38	6.45	-1.98	0
2000	115	0	313.11	5.02	-1.79	0
2000	115	1	297.81	4.63	-1.58	0
2000	115	2	278.52	4.14	-1.46	0
2000	115	3	278.79	3.94	-1.51	0
2000	115	4	313.93	4.06	-1.38	0

2000	115	5	338.31	5.24	-1.51	0
2000	115	6	341.06	5.49	-2.06	0
2000	115	7	317.92	4.73	-2.55	0
2000	115	8	338.37	7.62	-2.73	0
2000	115	9	339.3	7.19	-3	0
2000	115	10	329.27	8.7	-3.15	0
2000	115	11	357.27	9.53	-3.25	0
2000	115	12	330.21	8.46	-3.4	0
2000	115	13	327.76	8.23	-3.44	0
2000	115	14	334.84	7.05	-3.36	0
2000	115	15	344.54	6.63	-3.32	0
2000	115	16	356.26	5.91	-2.86	0
2000	115	17	357.15	5.01	-2.11	0
2000	115	18	12.36	7.24	-1.66	0
2000	115	19	11.64	7.04	-1.37	0
2000	115	20	9.74	7.02	-1.51	0
2000	115	21	10.18	7.05	-1.46	0
2000	115	22	16.34	4.03	-1.36	0
2000	115	23	8.44	5.7	-1.48	0
2000	116	0	4.08	5.5	-1.56	0
2000	116	1	4.56	4.04	-1.54	0
2000	116	2	17.47	3.17	-0.76	0
2000	116	3	35	4.01	0.54	0
2000	116	4	33.33	5.56	1.41	0
2000	116	5	26.51	5.98	0.79	0
2000	116	6	22.84	5.14	-1.45	0
2000	116	7	27.9	7.26	-2.5	0
2000	116	8	33.77	8.57	-2.97	0
2000	116	9	35.89	8.56	-2.96	0
2000	116	10	22.63	7.09	-3.05	0
2000	116	11	56.38	6.88	-3.29	0
2000	116	12	61.59	6.52	-3.39	0
2000	116	13	39.94	5.14	-2.69	0
2000	116	14	136.16	7.09	-2.8	0
2000	116	15	176.56	9.32	-2.84	0
2000	116	16	181.73	7.33	-2.41	0
2000	116	17	166.48	6.22	-2.02	0
2000	116	18	144.16	4.57	-2.24	0
2000	116	19	136.11	2.68	-2	0
2000	116	20	164.86	1.78	-1.7	0
2000	116	21	173.66	1.6	-1.32	0
2000	116	22	351.59	2.52	-1.33	0
2000	116	23	45.93	6.17	-1.84	0
2000	117	0	32.28	7.65	-2.06	0
2000	117	1	50	8.31	-2.12	0
2000	117	2	34.93	8.44	-2.13	0
2000	117	3	26.88	8.51	-2.19	0
2000	117	4	18.35	8.49	-2.26	0
2000	117	5	18.91	8.52	-2.32	0

2000	117	6	12.64	7.81	-2.49	0
2000	117	7	16.95	9.26	-2.59	0
2000	117	8	16.67	8.43	-2.57	0
2000	117	9	15.95	6.74	-2.66	0
2000	117	10	22.79	7.09	-2.67	0
2000	117	11	23.09	8.09	-2.83	0
2000	117	12	24.41	7.9	-2.93	0
2000	117	13	12	7.28	-2.74	0
2000	117	14	5.99	5.21	-2.66	0
2000	117	15	15.57	7.08	-2.5	0
2000	117	16	41.74	5.58	-2.41	0
2000	117	17	43.19	6	-2.42	0
2000	117	18	45.27	5.92	-2.25	0
2000	117	19	40.27	4.95	-2.05	0
2000	117	20	47.86	4.94	-2.04	0
2000	117	21	31.72	5.11	-2.06	0
2000	117	22	7.28	4.03	-2.14	0
2000	117	23	359.74	4.22	-2.15	0
2000	118	0	356.05	3.76	-2.06	0
2000	118	1	3.39	4.91	-2.07	0
2000	118	2	358.2	3.58	-2.02	0
2000	118	3	348.01	3.18	-1.94	0
2000	118	4	348.18	2.46	-1.9	0
2000	118	5	226.02	1.69	-1.57	0
2000	118	6	129.85	1.92	-1.97	0
2000	118	7	308.78	2.5	-2.44	0
2000	118	8	35.76	3.1	-2.69	0
2000	118	9	175.72	3.91	-2.62	0
2000	118	10	244.94	3.01	-2.4	0
2000	118	11	201.27	4.7	-2.73	0
2000	118	12	171.47	4.68	-2.53	0
2000	118	13	173.53	5.8	-2.85	0
2000	118	14	160.4	4.88	-2.63	0
2000	118	15	188.33	5.57	-2.66	0
2000	118	16	177.56	6.19	-2.55	0
2000	118	17	186.41	5.29	-2.13	0
2000	118	18	169.59	5.26	-1.57	0
2000	118	19	162.94	3.69	-0.92	0
2000	118	20	167.66	3.87	-0.89	0
2000	118	21	177.41	4.11	-1.26	0
2000	118	22	180.47	3.3	-0.49	0
2000	118	23	185.39	2.66	-0.06	0
2000	119	0	175.47	1.83	0.5	0
2000	119	1	170.08	2.63	-0.04	0
2000	119	2	175.78	2.16	-0.4	0
2000	119	3	174.2	1.39	-0.03	0
2000	119	4	186.1	3.11	-0.94	0
2000	119	5	178.48	2.72	-1.34	0
2000	119	6	178.17	3.51	-1.69	0

2000	119	7	170.85	3.55	-2.12	0
2000	119	8	254.73	2.89	-2.27	0
2000	119	9	237.29	3.64	-2.52	0
2000	119	10	10.45	4.31	-2.48	0
2000	119	11	5.05	4.93	-2.59	0
2000	119	12	6.34	6.51	-2.47	0
2000	119	13	343.63	3.66	-2.57	0
2000	119	14	263.25	3.51	-2.77	0
2000	119	15	346.55	3.82	-2.89	0
2000	119	16	18.41	3.89	-2.33	0
2000	119	17	11.51	3.63	-2.33	0
2000	119	18	24.93	2.62	-1.7	0
2000	119	19	66.77	2.25	-0.16	0
2000	119	20	162.64	2.82	0.15	0
2000	119	21	170.94	1.65	0.08	0
2000	119	22	18.1	2.71	2.71	0
2000	119	23	22.38	3.88	3.81	0
2000	120	0	28.5	4.45	5.21	0
2000	120	1	29.36	3.89	5.44	0
2000	120	2	27.3	2.98	4.16	0
2000	120	3	24.48	4.82	6.4	0
2000	120	4	33.78	7.23	8.55	0
2000	120	5	30.59	9.67	5.85	0
2000	120	6	28.89	7.4	1.29	0
2000	120	7	4.23	6.67	-2.23	0
2000	120	8	349.7	5.44	-2.41	0
2000	120	9	344.2	5.08	-3.16	0
2000	120	10	356.02	4.92	-3.2	0
2000	120	11	322.17	4.36	-3.73	0
2000	120	12	353.7	7.1	-3.51	0
2000	120	13	358.8	9.31	-3.6	0
2000	120	14	338.55	7.03	-3.39	0
2000	120	15	343.06	6.28	-3.18	0
2000	120	16	346.11	5.93	-2.72	0
2000	120	17	258.27	3.72	-1.62	0
2000	120	18	155.32	3.78	-0.57	0
2000	120	19	164.61	3.1	-0.09	0
2000	120	20	162.65	3.07	1.53	0
2000	120	21	164.03	3.1	1.21	0
2000	120	22	168.66	2.77	0.92	0
2000	120	23	167.38	2.21	0.89	0
2000	121	0	136.56	1.86	0.51	0
2000	121	1	36.97	2.86	2.9	0
2000	121	2	40.58	2.37	5.93	0
2000	121	3	27.47	3.2	4.87	0
2000	121	4	19.15	8.15	0.36	0
2000	121	5	352.93	9.09	-1.65	0
2000	121	6	356.42	10.06	-2.27	0
2000	121	7	357.97	9.06	-2.78	0

2000	121	8	3.3	9.89	-3.08	0
2000	121	9	356.56	9.79	-3.33	0
2000	121	10	344.9	9.72	-3.43	0
2000	121	11	355.65	10.59	-3.76	0
2000	121	12	336.31	9.51	-3.76	0
2000	121	13	316.96	8.85	-3.88	0
2000	121	14	324.79	9.03	-3.56	0
2000	121	15	318.67	8.85	-3.47	0
2000	121	16	308.77	8.73	-3.14	0
2000	121	17	317.99	7.81	-2.63	0
2000	121	18	310.05	8.1	-2.07	0
2000	121	19	315.41	7.08	-1.73	0
2000	121	20	327.43	8	-1.65	0
2000	121	21	346.76	6.71	-1.76	0
2000	121	22	336.55	6.71	-1.63	0
2000	121	23	331.89	5.03	-1.32	0
2000	122	0	2.03	4.34	-0.12	0
2000	122	1	66.6	2.11	0.66	0
2000	122	2	23.8	2.09	2.15	0
2000	122	3	24.86	1.96	3.96	0
2000	122	4	6.46	2.35	4.61	0
2000	122	5	46.49	1.23	4.94	0
2000	122	6	40.64	1.27	2.2	0
2000	122	7	242.78	2.25	-0.63	0
2000	122	8	181.24	4.1	-2.29	0
2000	122	9	164.04	6.56	-3.35	0
2000	122	10	165.7	8.58	-3.4	0
2000	122	11	166.69	9.45	-3.58	0
2000	122	12	164.07	9.71	-3.32	0
2000	122	13	158.17	10.19	-4.01	0
2000	122	14	155.46	9.35	-3.76	0
2000	122	15	152.33	6.95	-3.09	0
2000	122	16	154.94	6.64	-1.97	0
2000	122	17	167.12	6.85	-1.93	0
2000	122	18	169.8	6.7	-1.69	0
2000	122	19	159.05	3.76	-1.12	0
2000	122	20	166.08	2.99	-1	0
2000	122	21	160.34	2.41	-0.82	0
2000	122	22	157.9	1.44	0.02	0
2000	122	23	33.7	2.42	-0.17	0
2000	123	0	21.68	1.92	0.31	0
2000	123	1	141.45	1.94	-0.03	0
2000	123	2	181.13	1.53	0.14	0
2000	123	3	99.24	1.61	1.64	0
2000	123	4	95.46	1.53	0.1	0.01
2000	123	5	108.31	1.25	0.32	0.01
2000	123	6	119.03	1.58	0.69	0
2000	123	7	215.81	3.09	1.01	0
2000	123	8	309.7	6.3	-2.14	0

2000	123	9	354.57	9.21	-2.68	0
2000	123	10	354.34	9.95	-3.25	0
2000	123	11	347.72	8.8	-3.04	0
2000	123	12	1.29	9.49	-3.7	0
2000	123	13	6.15	7.69	-3.18	0
2000	123	14	0.64	6.16	-2.98	0
2000	123	15	28.58	6.11	-2.75	0
2000	123	16	5.51	6.23	-2.92	0
2000	123	17	8.64	6.86	-2.47	0
2000	123	18	2.61	5.27	-1.47	0
2000	123	19	325.11	2.45	0.45	0
2000	123	20	349.17	3.95	0.15	0
2000	123	21	5.88	4.68	1.55	0
2000	123	22	40.02	3.78	2.12	0
2000	123	23	41.13	3.43	3.79	0
2000	124	0	21.53	3.15	3.61	0
2000	124	1	17.19	3.35	4.44	0
2000	124	2	27.8	3.67	4.57	0
2000	124	3	38.34	4	3.99	0
2000	124	4	37.3	3.16	4.57	0
2000	124	5	30.97	3.73	5.81	0
2000	124	6	17.5	3.12	3.03	0
2000	124	7	349.39	2.45	-1.39	0
2000	124	8	263.41	4.05	-2.33	0
2000	124	9	198.47	6.61	-2.98	0
2000	124	10	179.34	7.13	-3.18	0
2000	124	11	174.11	6.93	-3.33	0
2000	124	12	158.93	6.03	-3.67	0
2000	124	13	147.65	6.62	-4	0
2000	124	14	159.06	7.76	-3.75	0
2000	124	15	159.1	7.22	-3.77	0
2000	124	16	162.57	8	-3.2	0
2000	124	17	161.04	6.85	-2.49	0
2000	124	18	165.87	6.87	-1.67	0
2000	124	19	164.35	6.05	-1.28	0
2000	124	20	166.52	6.28	-1.44	0
2000	124	21	161.9	3.94	-1.33	0
2000	124	22	163.39	3.56	-1.17	0
2000	124	23	166.21	3.54	-1.08	0
2000	125	0	171.34	4.14	-1.14	0
2000	125	1	183.73	3.5	-0.63	0
2000	125	2	189.64	2.24	-0.61	0
2000	125	3	196.48	1.59	0.43	0
2000	125	4	220.81	1.83	0.37	0
2000	125	5	212.8	2.51	-0.23	0
2000	125	6	204.73	3.38	-1.38	0
2000	125	7	177.81	6.12	-2.51	0
2000	125	8	162.98	5.99	-3.05	0
2000	125	9	163.81	6.92	-3.3	0

2000	125	10	156.38	7.19	-3.86	0
2000	125	11	160.62	8.11	-4.18	0
2000	125	12	159.03	9.26	-4.21	0
2000	125	13	157.02	9.64	-3.75	0
2000	125	14	156.99	9.52	-3.68	0
2000	125	15	156.57	8.13	-2.98	0
2000	125	16	162.7	8.18	-2.42	0
2000	125	17	161.58	6.99	-2.15	0
2000	125	18	160.67	6.43	-1.71	0
2000	125	19	161.08	6.12	-1.49	0
2000	125	20	158.45	4.2	-1.26	0
2000	125	21	161.08	2.85	-1.15	0
2000	125	22	179.45	3.29	-0.52	0
2000	125	23	178.9	2.63	0.31	0
2000	126	0	178.71	1.26	0.65	0
2000	126	1	189.03	1.45	1.7	0
2000	126	2	199.88	1.26	0.75	0
2000	126	3	174.02	1.28	1.41	0
2000	126	4	179.89	1.13	1.59	0
2000	126	5	119.59	1.56	1.58	0
2000	126	6	6.04	1.27	0.13	0
2000	126	7	207.2	2.43	-1.92	0
2000	126	8	198.1	4.75	-1.65	0
2000	126	9	181.19	5.43	-1.41	0
2000	126	10	208.77	4.51	-2.13	0
2000	126	11	244.05	4.89	-3.01	0
2000	126	12	284.6	6.7	-2.97	0
2000	126	13	306.11	7.29	-2.51	0
2000	126	14	299.81	7.73	-2.39	0
2000	126	15	288.78	7.93	-2.7	0
2000	126	16	286.93	6.73	-2.51	0
2000	126	17	289.21	5.71	-1.9	0
2000	126	18	302.51	5.72	-1.19	0
2000	126	19	351.94	6.48	0.94	0.06
2000	126	20	182.02	2.16	3.89	0
2000	126	21	39.13	1.55	5.88	0
2000	126	22	185.76	1.64	6.71	0
2000	126	23	94.91	1.8	8.48	0
2000	127	0	188.14	1.44	7.92	0
2000	127	1	261.71	1.09	5.69	0
2000	127	2	322.88	1.28	5.39	0
2000	127	3	18.78	1.37	9.23	0
2000	127	4	48.34	1.76	11.32	0
2000	127	5	75.73	1.71	7.48	0
2000	127	6	318.04	2.07	4.14	0
2000	127	7	151.16	1.97	-0.35	0
2000	127	8	348.42	1.91	-2.19	0
2000	127	9	237.78	2.85	-2.44	0
2000	127	10	270.27	2.84	-2.93	0

2000	127	11	312.09	4.2	-3.13	0
2000	127	12	213.16	4.77	-2.71	0
2000	127	13	191.91	5.4	-2.34	0
2000	127	14	147.41	4.3	-2.7	0
2000	127	15	254.47	4.46	-2.07	0
2000	127	16	285.24	5.11	-2.53	0
2000	127	17	279.48	5.59	-1.69	0
2000	127	18	267.04	3.45	-0.92	0
2000	127	19	230.99	2.56	2.26	0
2000	127	20	238.76	2.14	5.92	0
2000	127	21	168.72	2.2	7.78	0
2000	127	22	156.4	1.84	9.05	0
2000	127	23	129.16	1.58	9.26	0
2000	128	0	123.53	1.46	8.61	0
2000	128	1	171.14	1.48	4.72	0
2000	128	2	213.03	1.87	2.61	0
2000	128	3	236.4	1.75	2.46	0
2000	128	4	229.78	1.07	2.44	0
2000	128	5	223.79	1.02	2.81	0
2000	128	6	214.52	1.03	2.13	0
2000	128	7	207.54	2.07	0.93	0
2000	128	8	204.46	3.07	2.52	0
2000	128	9	170.65	3.67	1.74	0
2000	128	10	251.37	5.04	-2.37	0
2000	128	11	269.7	5.64	-3.4	0
2000	128	12	232.35	5.32	-3.26	0
2000	128	13	209.24	6.56	-3.03	0
2000	128	14	231.44	6.43	-2.55	0
2000	128	15	245.28	7.3	-1.98	0
2000	128	16	271.89	7.26	-1.84	0
2000	128	17	296.99	5.6	-1.35	0
2000	128	18	226.05	4.93	5.63	0.03
2000	128	19	162.18	1.98	6.12	0
2000	128	20	268.49	9.48	1.47	0
2000	128	21	107.67	4.81	1.47	0.01
2000	128	22	182.62	2.77	1.92	0
2000	128	23	158.34	1.6	3.35	0
2000	129	0	334.2	1.73	0.64	0
2000	129	1	15.78	2.68	0.96	0
2000	129	2	36.31	3.99	2.2	0
2000	129	3	21.41	2.71	1.63	0
2000	129	4	213.1	1.43	2.51	0
2000	129	5	161.99	1.52	3.39	0
2000	129	6	156.4	1.61	2.45	0
2000	129	7	344.97	1.74	0.36	0
2000	129	8	267.69	2.58	-0.15	0
2000	129	9	199.13	3.53	-0.17	0
2000	129	10	209.04	3.91	-1.03	0
2000	129	11	192.56	4.63	-2.1	0

2000	129	12	172.42	5.1	-2.41	0
2000	129	13	160.77	4.03	-2.32	0
2000	129	14	266.85	3.97	1.79	0.17
2000	129	15	163.72	3.42	-0.42	0
2000	129	16	196.91	4.68	-0.13	0
2000	129	17	235.34	3.15	0.39	0
2000	129	18	194.99	2.06	2.14	0
2000	129	19	142.08	1.37	2.57	0
2000	129	20	76.8	1.98	3.39	0
2000	129	21	35.37	2.15	5.07	0
2000	129	22	339.34	1.71	6.26	0
2000	129	23	21.54	1.37	6.45	0
2000	130	0	54.25	1.49	7.36	0
2000	130	1	230.59	1.5	7.48	0
2000	130	2	300.94	1.25	6.18	0
2000	130	3	6.72	1.41	5.82	0
2000	130	4	0.28	1.38	5.59	0
2000	130	5	357.09	1.32	5.3	0
2000	130	6	264.21	1.75	3.76	0
2000	130	7	184.67	3.8	-0.32	0
2000	130	8	181.47	3.69	-1.49	0
2000	130	9	253.18	6.11	-1.74	0
2000	130	10	242.01	5.39	-3.02	0
2000	130	11	214.78	6.69	-3.53	0
2000	130	12	208.52	8.22	-3.12	0
2000	130	13	207.98	8.29	-3.19	0
2000	130	14	207.68	7.85	-2.95	0
2000	130	15	204.05	6.52	-2.75	0
2000	130	16	200.31	7.05	-2.25	0
2000	130	17	193.52	8.21	-1.69	0
2000	130	18	187.19	7.52	-1.01	0
2000	130	19	174.93	3.48	0.25	0
2000	130	20	198.03	2.21	1.53	0
2000	130	21	340.57	9.18	-0.8	0
2000	130	22	61.51	3.95	0.14	0
2000	130	23	223.78	2.32	1.67	0
2000	131	0	160.22	1.97	3.54	0
2000	131	1	135.06	2.75	1.3	0
2000	131	2	192.24	1.99	0.81	0
2000	131	3	27.01	2.82	2.57	0
2000	131	4	65.94	3.33	-0.06	0
2000	131	5	127.13	4.5	-2.06	0
2000	131	6	128.79	5.08	-2.44	0
2000	131	7	151.28	5.25	-2.45	0
2000	131	8	130.23	5.33	-2.47	0
2000	131	9	104.99	3.82	-2.57	0
2000	131	10	132.18	4.74	-2.48	0
2000	131	11	119.98	4.24	-2.42	0
2000	131	12	115.37	3.86	-2.38	0

2000	131	13	133.56	4.27	-2.42	0
2000	131	14	111.84	5.72	-2.43	0
2000	131	15	138.34	5.06	-2.31	0
2000	131	16	107.47	3.83	-2.09	0
2000	131	17	123.72	3.46	-2	0
2000	131	18	71.92	4.46	-1.19	0.04
2000	131	19	351.52	3.39	-1.83	0.06
2000	131	20	192.47	2.1	-1.49	0.12
2000	131	21	297.99	3.6	-1.72	0.01
2000	131	22	105.17	1.47	-1.48	0
2000	131	23	148.07	2.21	-1.34	0
2000	132	0	230.48	1.56	-1.44	0
2000	132	1	214.67	1.76	-0.81	0
2000	132	2	197.72	2.48	-0.29	0
2000	132	3	327.45	4.08	-1.45	0
2000	132	4	328.54	4.85	-1.64	0
2000	132	5	304.71	6.92	-1.73	0
2000	132	6	295.74	6.72	-1.73	0
2000	132	7	282.34	5.28	-2.66	0
2000	132	8	289.78	6.29	-2.28	0
2000	132	9	297.72	7.36	-2.84	0
2000	132	10	319.36	7.36	-2.83	0
2000	132	11	330.01	7.51	-3.51	0
2000	132	12	327.27	6.4	-3.73	0
2000	132	13	337.63	6.64	-3.56	0
2000	132	14	340.22	6.52	-3.41	0
2000	132	15	301.35	5.38	-3.67	0
2000	132	16	292.73	5.49	-3.24	0
2000	132	17	302.83	5.62	-2.62	0
2000	132	18	311.63	4.02	-1.64	0
2000	132	19	320.54	3.58	-1.16	0
2000	132	20	299.4	4	-0.98	0
2000	132	21	342.39	3.78	-0.55	0
2000	132	22	327.19	2.54	3.51	0
2000	132	23	355.26	2.72	4.88	0
2000	133	0	14.5	2.44	3.63	0
2000	133	1	17.09	4.89	2.38	0
2000	133	2	28.45	5.35	1.36	0
2000	133	3	18.33	3.99	0.96	0
2000	133	4	29.1	5.22	0.46	0
2000	133	5	27.58	4.58	-0.14	0
2000	133	6	26.48	2.51	-1.15	0
2000	133	7	24.48	3.94	-1.19	0.05
2000	133	8	15.57	4.36	-1.59	0.01
2000	133	9	43.65	2.5	-2	0
2000	133	10	185.94	2.13	-2.16	0
2000	133	11	83.03	2.69	-2.12	0.02
2000	133	12	92.86	3.3	-2.57	0
2000	133	13	165.34	3.74	-3.05	0

2000	133	14	7.97	3.85	-2.17	0
2000	133	15	233.21	2.64	-2.13	0
2000	133	16	80.1	3.42	-2.04	0
2000	133	17	95.99	2.42	-0.15	0.04
2000	133	18	161.33	2.27	-0.64	0
2000	133	19	17.92	4.47	-0.53	0
2000	133	20	19.12	3.83	-0.63	0
2000	133	21	17.68	4.1	0.13	0
2000	133	22	1.56	2.03	-0.5	0
2000	133	23	5.81	2.67	0.04	0
2000	134	0	35.83	3.21	0.94	0
2000	134	1	38.21	2.46	0.68	0
2000	134	2	27.18	1.61	-0.69	0
2000	134	3	288.31	1.77	-1	0
2000	134	4	43.5	2.65	-1.1	0
2000	134	5	22.99	5.81	-1.67	0
2000	134	6	1.29	3.14	-1.88	0
2000	134	7	212.79	2.35	-2.09	0
2000	134	8	190.05	3.04	-2.26	0
2000	134	9	183.66	4.36	-2.22	0
2000	134	10	197.03	4.07	-2.32	0
2000	134	11	194.89	4.7	-2.4	0
2000	134	12	187.78	7.4	-2.87	0
2000	134	13	181.44	5.21	-2.81	0
2000	134	14	157.02	4.37	-2.98	0
2000	134	15	178.29	5.8	-2.75	0
2000	134	16	170.2	5.07	-2.86	0
2000	134	17	174.25	6.96	-1.99	0
2000	134	18	177.19	6.23	-1.35	0
2000	134	19	186.15	5.12	-0.93	0
2000	134	20	134.15	4.85	-0.83	0.53
2000	134	21	59.18	3.43	-0.19	0.19
2000	134	22	34.44	3.61	0.51	0.11
2000	134	23	76.23	3.03	0.54	0
2000	135	0	7.41	3.46	0.13	0
2000	135	1	29.82	3.02	1.32	0
2000	135	2	1.14	4.99	0.34	0
2000	135	3	353.31	5.11	-0.91	0
2000	135	4	293.23	3.22	-1.14	0
2000	135	5	21.15	4.01	-1.04	0
2000	135	6	314.48	5.03	-2.19	0
2000	135	7	344.43	4.59	-2.72	0
2000	135	8	289.81	4.84	-3.48	0
2000	135	9	293.63	5.15	-3.63	0
2000	135	10	311.37	4.83	-3.85	0
2000	135	11	263.47	4.8	-3.71	0
2000	135	12	273.2	5.72	-3.79	0
2000	135	13	277.49	5.63	-3.86	0
2000	135	14	295.37	5.67	-3.71	0

2000	135	15	286.82	6.69	-3.47	0
2000	135	16	305.42	5.29	-3.13	0
2000	135	17	329.23	5.28	-2.54	0
2000	135	18	351.56	5.31	-1.69	0
2000	135	19	355.9	4.02	-0.84	0
2000	135	20	5.37	3.89	-0.02	0
2000	135	21	27.11	4.58	0.32	0
2000	135	22	13.9	8.41	-1.88	0
2000	135	23	351.11	6.14	-1.98	0
2000	136	0	344.47	5.56	-1.94	0
2000	136	1	8.57	5.4	-1.83	0
2000	136	2	2.44	5.24	-1.72	0
2000	136	3	329.51	2.68	-1.16	0
2000	136	4	163.75	2.33	0.25	0
2000	136	5	286.78	1.86	0.73	0
2000	136	6	38.34	1.91	-1.2	0
2000	136	7	262.67	2.78	-3.05	0
2000	136	8	317.57	4.08	-3.42	0
2000	136	9	284.52	4.44	-3.53	0
2000	136	10	312.66	4.79	-3.49	0
2000	136	11	313.06	4.71	-3.69	0
2000	136	12	266.92	5.37	-3.34	0
2000	136	13	286.59	5.5	-3.89	0
2000	136	14	308.11	5.47	-3.34	0
2000	136	15	290.39	5.35	-2.94	0
2000	136	16	318.27	5.44	-2.86	0
2000	136	17	290.76	4.52	-2.75	0
2000	136	18	272.98	2.57	-1.4	0
2000	136	19	270.62	1.62	1.78	0
2000	136	20	343.5	1.51	3.5	0
2000	136	21	25.43	5.6	3.68	0
2000	136	22	39.09	4.94	2.93	0
2000	136	23	111.64	1.93	2.35	0
2000	137	0	13.47	3.31	4.31	0
2000	137	1	26.15	2.47	4.61	0
2000	137	2	26.57	2.7	2.63	0
2000	137	3	30	2.99	3.32	0
2000	137	4	25.83	3.06	3.49	0
2000	137	5	24.38	2.92	3.21	0
2000	137	6	9.77	2.59	0.99	0
2000	137	7	349.27	2.24	-1.65	0
2000	137	8	148.5	2.56	-2.39	0
2000	137	9	315.83	4.1	-2.71	0
2000	137	10	271.33	4.24	-3.5	0
2000	137	11	238.42	4.65	-3.58	0
2000	137	12	249.87	4.49	-3.47	0
2000	137	13	265.98	4.95	-3.88	0
2000	137	14	212.56	3.76	-3.24	0
2000	137	15	257.45	5.25	-3.52	0

2000	137	16	245.8	3.91	-3.14	0
2000	137	17	193.02	4.56	-2.35	0
2000	137	18	157.7	5.56	-1.39	0
2000	137	19	168.84	4.11	-0.78	0
2000	137	20	174.23	3.5	-0.37	0
2000	137	21	182.87	2.47	-0.19	0
2000	137	22	183.84	1.41	0.71	0
2000	137	23	231.17	1.61	0.69	0
2000	138	0	331.22	1.91	0.64	0
2000	138	1	34.44	4.92	0.49	0
2000	138	2	101.2	2.01	0.66	0
2000	138	3	90.87	2.44	0.55	0
2000	138	4	26.85	4.87	2.42	0
2000	138	5	32.79	5.25	3.41	0
2000	138	6	30.37	5.99	2.97	0
2000	138	7	31.68	5.06	-1.26	0
2000	138	8	340.65	3.21	-2.19	0
2000	138	9	204.23	4.28	-2.54	0
2000	138	10	174.14	5.45	-2.97	0
2000	138	11	167.03	6.49	-3.53	0
2000	138	12	165.45	6.19	-3.54	0
2000	138	13	165.1	6.65	-3.24	0
2000	138	14	163.78	6.45	-3.1	0
2000	138	15	168.97	7.24	-2.84	0
2000	138	16	165.67	6.85	-2.76	0
2000	138	17	166.5	6.72	-2.53	0
2000	138	18	167.99	6.42	-1.82	0
2000	138	19	166.91	5.77	-1.46	0
2000	138	20	166.83	3.36	-1.37	0
2000	138	21	154.98	2.61	-1.22	0
2000	138	22	151.91	1.59	-0.66	0
2000	138	23	103.31	1.69	-0.12	0
2000	139	0	105.39	1.42	-0.61	0
2000	139	1	121.99	1.48	-1.12	0
2000	139	2	169.34	1.92	-1.29	0
2000	139	3	191.32	3.84	-1.67	0
2000	139	4	182.21	3.57	-1.75	0
2000	139	5	177.69	6.6	-1.94	0
2000	139	6	177.47	6	-2.07	0
2000	139	7	176.6	5.13	-1.89	0.01
2000	139	8	170.28	4.05	-1.48	0.01
2000	139	9	175.61	6.86	-1.56	0
2000	139	10	177.79	8.29	-1.49	0
2000	139	11	177.34	7.43	-1.52	0
2000	139	12	182.04	5.46	-1.49	0
2000	139	13	185.28	9.28	-2.62	0
2000	139	14	185.16	14.4	-2.51	0
2000	139	15	187.36	13.97	-1.89	0
2000	139	16	191.47	14.51	-1.71	0

2000	139	17	294.96	9.29	-1.12	0.24
2000	139	18	175.35	2.7	-0.31	0
2000	139	19	189.01	2.25	-0.97	0
2000	139	20	173.64	3.45	-0.8	0
2000	139	21	251.55	1.51	-1.29	0
2000	139	22	166.62	1.72	-0.78	0
2000	139	23	208.98	2.47	-0.65	0
2000	140	0	173.78	3.07	-0.55	0
2000	140	1	95.41	1.65	-0.49	0
2000	140	2	13	3.99	-0.91	0
2000	140	3	12.39	7.79	-1.82	0.01
2000	140	4	12.4	7	-1.73	0.08
2000	140	5	15.69	5.99	-1.97	0
2000	140	6	16.22	6.81	-2.21	0
2000	140	7	11.21	7.55	-2.16	0.03
2000	140	8	13.76	6.68	-2.01	0.11
2000	140	9	20.37	5.45	-1.72	0.04
2000	140	10	29.79	7.91	-1.96	0.02
2000	140	11	27.12	6.62	-2.04	0
2000	140	12	31.43	6.2	-2.1	0
2000	140	13	35.25	8.19	-2.21	0
2000	140	14	25.09	7.74	-2.11	0
2000	140	15	32.15	8.74	-2.17	0
2000	140	16	30.13	8.47	-2.23	0
2000	140	17	25.16	7.66	-2.21	0
2000	140	18	30.61	5.53	-2.13	0
2000	140	19	32.93	4.98	-2.08	0
2000	140	20	36.68	5.17	-2.02	0
2000	140	21	33.77	4.35	-2.03	0
2000	140	22	41.33	3.96	-2.05	0
2000	140	23	41.5	4.79	-2.06	0
2000	141	0	40.64	4.49	-2.03	0
2000	141	1	40.13	4.36	-2.03	0
2000	141	2	33.8	5.6	-2.1	0
2000	141	3	36.41	4.44	-2.14	0
2000	141	4	33.72	4.05	-2.13	0
2000	141	5	41.59	3.32	-2.13	0
2000	141	6	51.27	3.87	-2.23	0
2000	141	7	41	2.5	-2.25	0
2000	141	8	59.91	2.46	-2.24	0
2000	141	9	41.36	3.48	-2.18	0.01
2000	141	10	27.24	1.95	-1.96	0.01
2000	141	11	12.67	1.36	-1.88	0.06
2000	141	12	39.41	3.31	-1.98	0.11
2000	141	13	164.38	3.26	-2.15	0.01
2000	141	14	97.23	1.61	-2.06	0
2000	141	15	73.81	1.82	-2.12	0
2000	141	16	75.57	2.5	-2.26	0
2000	141	17	62.34	2.68	-2.09	0

2000	141	18	51.37	2.67	-1.92	0
2000	141	19	51.55	2.48	-1.44	0
2000	141	20	53.62	2.29	-1.2	0
2000	141	21	80.35	1.55	-1.33	0
2000	141	22	107.12	1.28	-1.45	0
2000	141	23	159.44	1.24	-1.28	0
2000	142	0	94.19	1.54	-1.23	0
2000	142	1	125.18	1.52	-1.47	0
2000	142	2	125.94	1.32	-1.36	0
2000	142	3	108.26	1.84	-1.32	0
2000	142	4	119.35	1.72	-1.37	0
2000	142	5	89.11	2.1	-1.34	0
2000	142	6	88.41	2.08	-1.32	0
2000	142	7	98.58	1.9	-1.78	0
2000	142	8	134.73	2.18	-2.04	0
2000	142	9	150.88	2.33	-2.21	0
2000	142	10	178.02	3.02	-2.29	0
2000	142	11	182.45	4.05	-2.31	0
2000	142	12	194.11	4.32	-2.46	0
2000	142	13	180.66	3.89	-2.38	0
2000	142	14	172.96	3.1	-2.4	0
2000	142	15	164.31	2.9	-2.28	0
2000	142	16	169	3.16	-1.95	0
2000	142	17	159.37	3.18	-1.75	0
2000	142	18	161.37	1.95	-1.46	0
2000	142	19	122.97	1.41	-1.49	0
2000	142	20	111.84	1.77	-1.51	0
2000	142	21	122.64	1.9	-1.63	0
2000	142	22	168.39	2.46	-1.4	0
2000	142	23	183.94	4.36	-1.5	0
2000	143	0	187.51	4.19	-1.59	0
2000	143	1	145.66	1.6	-1.48	0
2000	143	2	140.74	2.75	-1.43	0
2000	143	3	176.38	2.32	-1.51	0
2000	143	4	191.81	3.62	-1.57	0
2000	143	5	204.46	2.91	-1.81	0
2000	143	6	126.06	2.33	-2.17	0
2000	143	7	145.73	2.46	-2.16	0
2000	143	8	139.87	3.08	-2.44	0
2000	143	9	144.41	3.23	-2.41	0
2000	143	10	163.59	3.92	-2.51	0
2000	143	11	129.85	2.65	-2.4	0
2000	143	12	123.43	3.06	-2.39	0
2000	143	13	152.34	3	-2.16	0
2000	143	14	139	3.28	-2.39	0
2000	143	15	95.61	2.56	-2.23	0
2000	143	16	90.94	2.55	-2.13	0
2000	143	17	99.84	1.77	-2.03	0
2000	143	18	137.74	1.87	-1.82	0

2000	143	19	170.85	1.33	-1.38	0
2000	143	20	174.97	1.47	-1.16	0
2000	143	21	131.51	1.54	-1.15	0
2000	143	22	171.14	1.57	-1.22	0
2000	143	23	147.09	1.52	-1.09	0
2000	144	0	178.98	1.47	-1.37	0
2000	144	1	161.32	1.27	-1.23	0
2000	144	2	162.7	1.64	-1.11	0
2000	144	3	168.62	1.92	-1	0
2000	144	4	174.29	2.07	-1.11	0
2000	144	5	172.78	1.79	-1.39	0
2000	144	6	187.5	1.91	-1.7	0
2000	144	7	175.94	3.96	-2.08	0
2000	144	8	185.41	4.32	-2.16	0
2000	144	9	184.46	5.22	-2.31	0
2000	144	10	169.01	3.87	-2.63	0
2000	144	11	158.71	3.58	-2.84	0
2000	144	12	167.3	3.46	-2.61	0
2000	144	13	171.73	5.17	-2.14	0
2000	144	14	172.56	4.86	-2.1	0
2000	144	15	169.44	5.91	-2.23	0
2000	144	16	168.64	4.42	-2.09	0
2000	144	17	166.89	3.61	-1.82	0
2000	144	18	163.83	4.67	-1.68	0
2000	144	19	170.34	5.86	-1.57	0
2000	144	20	172.5	6.95	-1.58	0
2000	144	21	168.26	4.89	-1.64	0
2000	144	22	157.59	3.72	-1.63	0
2000	144	23	163.33	4.29	-1.48	0.05
2000	145	0	161.89	4.86	-1.38	0
2000	145	1	170.93	4.26	-1.39	0.28
2000	145	2	153.65	2.1	-1.07	0.19
2000	145	3	152.43	2.36	-1.03	0.11
2000	145	4	186.16	2.15	-0.93	0
2000	145	5	182.75	1.04	-1.09	0
2000	145	6	184.54	2.61	-1.56	0
2000	145	7	182.16	4.17	-2.12	0
2000	145	8	173.53	3.26	-2.18	0
2000	145	9	186.43	2.91	-2.33	0
2000	145	10	243.88	3.42	-2.88	0
2000	145	11	202.67	4.32	-2.7	0
2000	145	12	188.18	4.59	-2.36	0
2000	145	13	230.86	4.7	-2.99	0
2000	145	14	251.53	5.34	-2.66	0
2000	145	15	257.11	5.24	-2.3	0
2000	145	16	266.53	6.04	-1.72	0
2000	145	17	286.52	3.84	-2.11	0
2000	145	18	227	2.67	-1.59	0
2000	145	19	180.48	2.35	-0.51	0

2000	145	20	178.12	3.12	-0.07	0
2000	145	21	164.4	3.42	-1.05	0
2000	145	22	266.85	1.58	0.45	0
2000	145	23	282.53	2	1.05	0
2000	146	0	86.47	3.09	0.6	0
2000	146	1	230.48	2.65	-0.32	0
2000	146	2	42.02	2.04	0.36	0
2000	146	3	23.9	1.77	0.01	0
2000	146	4	53.53	2.12	1.02	0
2000	146	5	138.49	2.18	0.89	0
2000	146	6	200.48	4.99	-1.72	0
2000	146	7	179.23	4.44	-2.31	0
2000	146	8	291.88	5.55	-1.96	0
2000	146	9	327.97	5.6	-2.96	0
2000	146	10	334.23	6.95	-3.35	0
2000	146	11	295.52	7.69	-3.32	0
2000	146	12	306.11	6.61	-3.47	0
2000	146	13	305.63	7.28	-3.58	0
2000	146	14	317.04	6.75	-3.1	0
2000	146	15	308.17	5.56	-3.38	0
2000	146	16	290	5.56	-3.08	0
2000	146	17	298.56	5.55	-2.57	0
2000	146	18	357.78	3.45	-1.8	0
2000	146	19	359.84	3.07	-0.86	0
2000	146	20	7.87	2.64	0.37	0
2000	146	21	345.42	3	0.51	0
2000	146	22	347.98	2.59	-0.66	0
2000	146	23	252.44	3.34	-0.77	0
2000	147	0	261.62	3.38	-1.09	0
2000	147	1	312.29	4.66	-1.84	0
2000	147	2	350.16	4.3	-1.89	0
2000	147	3	356.28	4.89	-1.96	0
2000	147	4	345.58	3.99	-1.95	0
2000	147	5	353.34	6.04	-2.03	0
2000	147	6	349.26	6.44	-2.47	0
2000	147	7	348.16	7.95	-2.73	0
2000	147	8	339.46	6.86	-3.08	0
2000	147	9	342.96	6.64	-3.38	0
2000	147	10	322.88	5.21	-3.96	0
2000	147	11	306.58	5.4	-4.16	0
2000	147	12	321.08	5.52	-3.67	0
2000	147	13	301.05	5.65	-3.99	0
2000	147	14	309.42	5.28	-4.06	0
2000	147	15	327.93	5.34	-3.26	0
2000	147	16	352.22	6.34	-2.76	0
2000	147	17	350.24	5.78	-2.72	0
2000	147	18	353.47	6.04	-2.14	0
2000	147	19	0.41	6.25	-1.67	0
2000	147	20	0.2	6.15	-1.59	0

2000	147	21	357.91	5.33	-1.37	0
2000	147	22	306.72	2.74	-1.1	0
2000	147	23	326	4.62	-1.43	0
2000	148	0	349.46	6.44	-1.41	0
2000	148	1	333.22	5.65	-1.45	0
2000	148	2	354.66	6.88	-1.59	0
2000	148	3	357.49	7.5	-1.57	0
2000	148	4	49.8	4.61	-0.32	0
2000	148	5	114.19	2.05	0.15	0
2000	148	6	16.31	2.39	-2	0
2000	148	7	39.46	2.74	-2.36	0
2000	148	8	322.33	2.84	-2.73	0
2000	148	9	293.85	3.48	-2.73	0
2000	148	10	227.4	5.28	-3.49	0
2000	148	11	241.34	4.2	-3.7	0
2000	148	12	261.07	4.08	-3.42	0
2000	148	13	232.21	4.91	-3.15	0
2000	148	14	217.83	5.12	-3.32	0
2000	148	15	213	5.63	-2.93	0
2000	148	16	204.69	6.12	-2.88	0
2000	148	17	213.69	5.06	-2.58	0
2000	148	18	231.66	3.79	-1.65	0
2000	148	19	178.48	2.68	-1.16	0
2000	148	20	16.4	2.77	-0.97	0
2000	148	21	28.26	2.84	0.75	0
2000	148	22	43.28	3.58	0.27	0
2000	148	23	27.79	4.8	0.15	0
2000	149	0	13.74	4.36	-0.21	0
2000	149	1	11.95	5.9	-1.24	0
2000	149	2	26.35	5.14	-0.9	0
2000	149	3	26.34	4.54	-0.08	0
2000	149	4	28.5	5.41	0.75	0
2000	149	5	25.02	4.82	-0.14	0
2000	149	6	18.9	5.55	-2.24	0
2000	149	7	7.58	5.31	-2.85	0
2000	149	8	355.58	4.25	-2.86	0
2000	149	9	356.25	5.22	-3.22	0
2000	149	10	357.21	4.48	-3.02	0
2000	149	11	344.85	3.93	-2.98	0
2000	149	12	11.54	4.25	-2.85	0
2000	149	13	14.23	4.72	-2.79	0
2000	149	14	348.38	4.41	-2.66	0
2000	149	15	353.23	4.15	-2.46	0
2000	149	16	25.84	6.22	-2.57	0
2000	149	17	37.2	4.65	-2.27	0
2000	149	18	77.27	2.7	-1.7	0
2000	149	19	79.17	1.98	-1.45	0
2000	149	20	71.57	2.32	-1.3	0
2000	149	21	59.83	2.56	-1.27	0

2000	149	22	79.51	2.66	-1.32	0
2000	149	23	153.72	2.57	-1.96	0
2000	150	0	139.17	1.5	-1.93	0
2000	150	1	92.23	2.15	-1.9	0
2000	150	2	29.17	3.56	-2.08	0
2000	150	3	23.56	2.34	-2.09	0
2000	150	4	22.67	3.38	-2.02	0
2000	150	5	38.22	3.87	-2.13	0
2000	150	6	49.3	4.33	-2.16	0
2000	150	7	52.63	3.23	-2.11	0
2000	150	8	32.81	5.27	-2.44	0
2000	150	9	41.79	5.33	-2.6	0
2000	150	10	47.65	6.07	-2.7	0
2000	150	11	23.09	7.28	-2.81	0
2000	150	12	33.38	6.8	-2.59	0
2000	150	13	13.98	4.4	-2.51	0
2000	150	14	35.84	4.83	-2.59	0
2000	150	15	168.82	6.4	-2.74	0
2000	150	16	189.45	4.24	-2.39	0
2000	150	17	189.73	2.85	-2.43	0
2000	150	18	118.06	2.2	-1.83	0
2000	150	19	91.6	1.94	-0.34	0
2000	150	20	156.78	1.69	0.23	0
2000	150	21	212.33	1.91	-1.5	0
2000	150	22	6.74	2	-1.62	0
2000	150	23	37.82	1.78	-1.62	0
2000	151	0	34.52	1.94	-1.29	0
2000	151	1	45.82	1.74	-0.38	0
2000	151	2	31.49	2.53	0.02	0
2000	151	3	24.84	3.33	-0.32	0
2000	151	4	40.45	5.65	-1.95	0
2000	151	5	26.13	5.94	-2.24	0
2000	151	6	23.42	5.45	-2.33	0
2000	151	7	14.32	5.14	-2.38	0
2000	151	8	15.92	4.56	-2.55	0
2000	151	9	41.74	4.61	-2.5	0
2000	151	10	31.41	4.67	-2.79	0
2000	151	11	352.68	4.75	-3.09	0
2000	151	12	31.42	5.32	-2.76	0
2000	151	13	267.96	3.39	-2.64	0
2000	151	14	182.36	7.3	-3.37	0
2000	151	15	181.54	9.08	-3.31	0
2000	151	16	185.76	9.59	-3.02	0
2000	151	17	182.97	8.79	-2.61	0
2000	151	18	157.2	4.72	-2.18	0
2000	151	19	155.03	2.45	-1.28	0
2000	151	20	151.68	1.95	-0.26	0
2000	151	21	175.55	1.56	-0.97	0
2000	151	22	70.02	1.93	-0.79	0

2000	151	23	88.59	1.88	0.13	0
2000	152	0	123.85	1.51	1.1	0
2000	152	1	101.79	1.81	0.4	0
2000	152	2	42.03	3.44	-0.02	0
2000	152	3	28.21	2.3	-1	0
2000	152	4	50.24	2.9	-2.04	0
2000	152	5	82.86	2.83	-2.12	0
2000	152	6	85.74	2.5	-2.37	0
2000	152	7	126.18	2.59	-2.67	0
2000	152	8	187.36	3.98	-2.75	0
2000	152	9	187.14	4.81	-2.84	0
2000	152	10	171.66	4.77	-3.36	0
2000	152	11	165.86	5.73	-3.89	0
2000	152	12	160.59	4.78	-3.42	0
2000	152	13	172.84	6.02	-3.47	0
2000	152	14	167.72	5.57	-3.82	0
2000	152	15	158.83	5.16	-3.66	0
2000	152	16	160.19	5.07	-3.21	0
2000	152	17	166.31	4.73	-2.6	0
2000	152	18	164.6	4.5	-0.91	0
2000	152	19	169.06	4.46	-0.98	0
2000	152	20	167.08	2.48	-0.72	0
2000	152	21	167.22	2.98	0.05	0
2000	152	22	185.59	3.33	-0.59	0
2000	152	23	188.37	2.98	-0.94	0
2000	153	0	189.03	2.79	-1.38	0
2000	153	1	178.32	2.72	-1.74	0
2000	153	2	174	2.76	-1.72	0
2000	153	3	179.49	2.46	-1.1	0
2000	153	4	185.18	2.72	-0.85	0
2000	153	5	195.6	2.01	-0.63	0
2000	153	6	183.99	3.02	-1.77	0
2000	153	7	178.68	3.88	-2.44	0
2000	153	8	191.25	2.92	-2.35	0
2000	153	9	222.51	3.73	-2.09	0
2000	153	10	212.07	4.36	-1.91	0
2000	153	11	208.66	4.5	-1.68	0
2000	153	12	188.67	4.53	-1	0
2000	153	13	198.37	3.34	-1.95	0
2000	153	14	182.58	4.44	-1.83	0
2000	153	15	180.79	4.48	-2.42	0
2000	153	16	189.56	3.63	-2.15	0
2000	153	17	247.07	3.53	-2	0
2000	153	18	224.78	2.76	-1.43	0
2000	153	19	198.36	2.69	1.24	0
2000	153	20	151.01	2.25	3.12	0
2000	153	21	63.03	2.73	2.01	0
2000	153	22	27.35	3.73	3.15	0
2000	153	23	17.76	4.51	3.22	0

2000	154	0	98.03	1.72	6.57	0
2000	154	1	32.6	4.07	7.18	0
2000	154	2	35.97	3.86	7.34	0
2000	154	3	107.76	2.26	6.67	0
2000	154	4	31.26	2.82	7.75	0
2000	154	5	9.06	2.79	3.73	0
2000	154	6	15.78	2.29	2.38	0
2000	154	7	167.01	2.21	-0.31	0
2000	154	8	174.53	3.35	-1.45	0
2000	154	9	191.64	4.48	-2.04	0
2000	154	10	177.89	4.76	-2.65	0
2000	154	11	175.14	6.88	-3.21	0
2000	154	12	169.57	5.87	-2.8	0
2000	154	13	209.66	7.33	-2.83	0
2000	154	14	196.18	9.86	-2.89	0
2000	154	15	194.16	10.69	-2.42	0
2000	154	16	198.79	9.38	-1.99	0
2000	154	17	205.79	8.41	-1.74	0
2000	154	18	221.9	6.36	-0.66	0.03
2000	154	19	157.25	3	0.29	0
2000	154	20	22.39	2.04	0.75	0
2000	154	21	180.9	3.5	0.3	0
2000	154	22	173.9	2.94	2.57	0
2000	154	23	191	3.57	1.87	0
2000	155	0	304.12	3.04	-0.61	0
2000	155	1	343.24	5.69	-1.54	0
2000	155	2	344.87	6.73	-1.74	0
2000	155	3	310.16	5.48	-1.78	0
2000	155	4	309.44	4.44	-1.82	0
2000	155	5	327.02	5.63	-1.97	0
2000	155	6	351.85	6	-2.22	0
2000	155	7	359.79	6.1	-2.6	0
2000	155	8	352.14	7.71	-3.01	0
2000	155	9	350.33	6.06	-3.03	0
2000	155	10	12.48	9.64	-3.59	0
2000	155	11	13.05	9.58	-3.91	0
2000	155	12	7.94	9.74	-3.92	0
2000	155	13	4.76	10.61	-3.79	0
2000	155	14	357.9	7.79	-3.64	0
2000	155	15	356.12	6.69	-3.37	0
2000	155	16	354.73	6.01	-3.15	0
2000	155	17	358.02	4.98	-2.67	0
2000	155	18	1.6	4.26	-1.91	0
2000	155	19	359.38	2.63	0.97	0
2000	155	20	34.03	2.85	2.34	0
2000	155	21	29.41	2.05	4.02	0
2000	155	22	17.15	4.36	5.57	0
2000	155	23	23.79	4.57	7.21	0
2000	156	0	21.67	3.78	8.42	0

2000	156	1	27.62	7.99	9.61	0
2000	156	2	30.26	4	4.81	0
2000	156	3	48.56	2.82	3.16	0
2000	156	4	21.26	3.85	3.68	0
2000	156	5	25.46	5.14	3.53	0
2000	156	6	26.72	4.99	1.23	0
2000	156	7	41.07	5.04	-1.35	0
2000	156	8	47.38	3.37	-2.37	0
2000	156	9	271.23	3.27	-2.07	0
2000	156	10	183.87	5.53	-3.03	0
2000	156	11	168.86	6.17	-3.81	0
2000	156	12	168.4	5.13	-3.05	0
2000	156	13	168.93	7.08	-3.5	0
2000	156	14	166.95	6.32	-2.47	0
2000	156	15	165.8	5.54	-2.06	0
2000	156	16	166.79	6.65	-2.77	0
2000	156	17	167.49	6.41	-2.34	0
2000	156	18	170.48	5.74	-1.25	0
2000	156	19	177.22	7.39	-1.33	0
2000	156	20	180.76	6.02	-1.66	0
2000	156	21	204.22	1.82	-1.17	0
2000	156	22	190.06	2.69	-1.06	0
2000	156	23	38.58	3.57	-0.55	0
2000	157	0	19.41	5.8	-0.26	0
2000	157	1	11.41	4.94	-0.92	0
2000	157	2	69.77	2.71	-0.57	0
2000	157	3	38.28	4.28	-0.45	0
2000	157	4	27.44	4.23	-0.62	0
2000	157	5	25.74	5.55	-0.35	0
2000	157	6	31.47	5.56	-0.76	0
2000	157	7	33.41	4.84	-1.27	0
2000	157	8	25.7	4.9	-1.91	0
2000	157	9	22.81	3.43	-2.26	0
2000	157	10	20.62	4.39	-2.29	0
2000	157	11	30.29	5.05	-2.45	0
2000	157	12	57.55	4.91	-2.46	0
2000	157	13	72.03	3.76	-2.45	0
2000	157	14	74.22	4.36	-2.05	0
2000	157	15	76.96	3.9	-1.55	0
2000	157	16	73.95	3.07	-1.62	0
2000	157	17	54.02	3.84	-1.46	0
2000	157	18	47.77	3.81	-1.23	0
2000	157	19	43.43	3.74	-1.37	0
2000	157	20	51.89	3.11	-1.44	0
2000	157	21	18.51	3.02	-1.44	0
2000	157	22	27.62	3.73	-1.5	0
2000	157	23	17.73	3.93	-1.75	0
2000	158	0	48.23	3.62	-1.56	0
2000	158	1	41.67	3.9	-1.82	0

2000	158	2	20.77	5.3	-2.07	0
2000	158	3	26.16	5.8	-2.07	0
2000	158	4	30.25	6.72	-2.09	0
2000	158	5	33.04	5.99	-1.95	0
2000	158	6	18.28	6.61	-2.08	0
2000	158	7	17.86	7.18	-2.05	0.13
2000	158	8	17.91	8.76	-2.64	0.13
2000	158	9	16.55	9.19	-2.78	0.31
2000	158	10	16.47	10.91	-2.88	0.26
2000	158	11	13.4	12.33	-2.78	0.15
2000	158	12	12.92	12.61	-2.84	0.13
2000	158	13	16.79	11.69	-2.61	0.12
2000	158	14	10.25	10.02	-2.15	0.01
2000	158	15	14.17	11.3	-2.11	0
2000	158	16	14.5	12.32	-2.15	0
2000	158	17	12.22	12.3	-2.89	0
2000	158	18	358.38	10.66	-2.99	0.04
2000	158	19	17.1	14.52	-2.77	0.13
2000	158	20	10.2	11.64	-2.89	0.05
2000	158	21	9.44	12.7	-3.39	0.06
2000	158	22	7.11	12.6	-3.39	0.1
2000	158	23	9.2	11.53	-3.23	0.1
2000	159	0	10.65	10.14	-2.27	0.04
2000	159	1	9.32	8.96	-1.94	0.06
2000	159	2	4.71	7.37	-1.87	0
2000	159	3	8.75	7.8	-2.35	0
2000	159	4	357.23	4.5	-1.78	0
2000	159	5	0.4	3.11	-1.34	0
2000	159	6	5.42	5.34	-1.67	0
2000	159	7	0.7	7.48	-2.52	0
2000	159	8	5.09	7.2	-2.92	0
2000	159	9	2.37	6.94	-3.17	0
2000	159	10	5.21	7.83	-3.4	0
2000	159	11	2.25	5.82	-3.35	0
2000	159	12	347.93	4.32	-2.95	0
2000	159	13	349.11	3.12	-2.59	0
2000	159	14	0.95	5.68	-2.81	0
2000	159	15	340.82	4	-2.41	0
2000	159	16	350.94	4.93	-2.28	0
2000	159	17	340.61	5.14	-2.32	0
2000	159	18	355.92	4.39	-1.81	0
2000	159	19	355.5	4	-1.14	0
2000	159	20	340.88	2.16	2.08	0
2000	159	21	20.88	2.1	3.55	0
2000	159	22	2.75	2.28	5.54	0
2000	159	23	25.17	2.83	7.03	0
2000	160	0	11.45	2.53	5.84	0
2000	160	1	26.64	2.15	5.26	0
2000	160	2	14.32	2.2	4.31	0

2000	160	3	33.83	1.63	4.65	0
2000	160	4	15.17	2.16	4.24	0
2000	160	5	15.85	2.85	4.11	0
2000	160	6	51.3	1.52	0.31	0
2000	160	7	180.97	2.31	-1.6	0
2000	160	8	183.09	3.33	-2.25	0
2000	160	9	207.93	4.04	-1.83	0
2000	160	10	190.55	4.7	-2.58	0
2000	160	11	164.64	5.05	-3.08	0
2000	160	12	166.06	5.43	-2.89	0
2000	160	13	176.69	6.09	-2.22	0
2000	160	14	190.72	8.18	-2.18	0
2000	160	15	194.06	9.25	-2.53	0
2000	160	16	196.99	9.22	-2.46	0
2000	160	17	194.03	7.27	-1.89	0
2000	160	18	189.3	6.18	-1.08	0
2000	160	19	189.53	4.31	0.09	0
2000	160	20	180.96	3.97	0.21	0
2000	160	21	172.77	3.04	0.99	0
2000	160	22	177.69	4.7	-0.01	0
2000	160	23	188.18	5.45	-0.39	0
2000	161	0	171.76	4.1	1.25	0
2000	161	1	169.07	3.66	1.51	0
2000	161	2	182.81	3.8	0.71	0
2000	161	3	185.32	1.58	1.11	0
2000	161	4	231.94	1.96	1.74	0
2000	161	5	189.83	2.18	1.83	0
2000	161	6	196.85	2.72	-0.71	0
2000	161	7	177.78	3.02	-2.23	0
2000	161	8	185.47	3.48	-2.52	0
2000	161	9	184.84	4.38	-2.45	0
2000	161	10	194.12	3.98	-2.7	0
2000	161	11	192.21	4.28	-2.54	0
2000	161	12	224.61	4.12	-1.65	0
2000	161	13	220.11	4.97	-2.27	0
2000	161	14	257.21	5.71	-2.32	0
2000	161	15	283.67	5.5	-2.6	0
2000	161	16	250.65	5.07	-2.52	0
2000	161	17	241.75	4.77	-2.13	0
2000	161	18	200.05	4.39	-1.52	0
2000	161	19	243.72	1.66	0.83	0
2000	161	20	337.44	1.5	2.84	0
2000	161	21	13.58	2.57	4.5	0
2000	161	22	12.44	2.11	4.52	0
2000	161	23	336.61	1.64	6.41	0
2000	162	0	228.38	1.13	6.24	0
2000	162	1	193.86	1.92	7.22	0
2000	162	2	15.8	1.58	5.98	0
2000	162	3	154.35	1.3	4.58	0

2000	162	4	155.69	0.97	4.05	0
2000	162	5	155.72	0.96	3.7	0
2000	162	6	247.59	1.62	2.73	0
2000	162	7	197.74	2.55	3.66	0
2000	162	8	186.94	3.09	0.5	0
2000	162	9	230.78	4.54	-2.37	0
2000	162	10	252.35	4.92	-3.07	0
2000	162	11	254.69	5.59	-3.15	0
2000	162	12	246	5.62	-2.98	0
2000	162	13	209.77	6.99	-2.96	0
2000	162	14	206.08	7.14	-2.87	0
2000	162	15	197.93	7.49	-2.71	0
2000	162	16	201.14	7.28	-2.26	0
2000	162	17	203.29	6.44	-1.83	0
2000	162	18	189.31	4.08	-1.12	0
2000	162	19	175.95	4.49	0.37	0
2000	162	20	171.24	3.18	1.18	0
2000	162	21	173.82	1.78	1.92	0
2000	162	22	214.09	2.49	3.26	0
2000	162	23	168.01	2.62	2	0
2000	163	0	166.61	2.06	2.01	0
2000	163	1	266.79	2.26	3.68	0
2000	163	2	174.71	1.8	3.78	0
2000	163	3	339.43	2.29	1.69	0
2000	163	4	205.84	2.18	0.66	0
2000	163	5	203.92	2.15	0.7	0
2000	163	6	186.08	2.99	-0.66	0
2000	163	7	179.15	3.31	-2.35	0
2000	163	8	179.33	3.86	-2.58	0
2000	163	9	204.72	4.11	-2.36	0
2000	163	10	245.2	5.96	-2.92	0
2000	163	11	249.31	6.49	-2.87	0
2000	163	12	222.26	5.83	-2.65	0
2000	163	13	234.8	5.37	-2.59	0
2000	163	14	228.62	5.9	-2.41	0
2000	163	15	10.96	8.16	-1.83	0
2000	163	16	210.27	4.17	-1.17	0
2000	163	17	166.8	2.41	0.18	0
2000	163	18	239.01	8	0.75	0.09
2000	163	19	290.41	5.15	0.28	0.07
2000	163	20	130.9	3.01	0.07	0.03
2000	163	21	173.38	2.12	0.2	0
2000	163	22	174.5	3.41	0.8	0.01
2000	163	23	161.62	1.96	-0.22	0.01
2000	164	0	164.3	1.57	-0.23	0
2000	164	1	172.63	1.99	-0.26	0
2000	164	2	184.12	1.92	-1.26	0
2000	164	3	173.65	2.36	-0.72	0
2000	164	4	173.3	4.48	-1.08	0.03

2000	164	5	122.77	3.06	-1.88	0.06
2000	164	6	78.26	2.98	-2.01	0
2000	164	7	79.01	3.1	-2.17	0
2000	164	8	90	3.35	-2.13	0
2000	164	9	105.36	2.92	-1.98	0.01
2000	164	10	103.3	2.53	-2.15	0
2000	164	11	149.52	2.65	-2.26	0
2000	164	12	76.47	3.14	-2.32	0
2000	164	13	48.71	4.88	-2.36	0
2000	164	14	56.72	3.98	-2.25	0
2000	164	15	100.71	2.4	-2.28	0
2000	164	16	72.96	2.46	-2.08	0.01
2000	164	17	84.92	1.87	-1.9	0
2000	164	18	66.24	2.75	-1.85	0
2000	164	19	61.99	2.77	-1.96	0
2000	164	20	58.56	2.57	-1.96	0
2000	164	21	59.34	2.85	-1.88	0
2000	164	22	67.94	2.87	-1.84	0
2000	164	23	49.73	2.53	-1.84	0
2000	165	0	63.57	2.18	-1.84	0
2000	165	1	45.43	3.34	-1.96	0
2000	165	2	46.8	2.1	-1.96	0
2000	165	3	49.48	2.94	-1.9	0
2000	165	4	54.34	2.58	-1.92	0
2000	165	5	72.34	2.46	-1.87	0
2000	165	6	45.14	2.14	-2.19	0
2000	165	7	48.02	3.31	-2.37	0
2000	165	8	83.76	2.82	-2.5	0
2000	165	9	137.98	2.95	-2.81	0
2000	165	10	150.03	3	-2.63	0
2000	165	11	179.14	4.07	-2.31	0
2000	165	12	168.85	3.12	-1.97	0
2000	165	13	152.96	2.74	-2.1	0
2000	165	14	127.02	3.1	-2.12	0
2000	165	15	97.2	3.73	-2.11	0
2000	165	16	143.72	2.63	-2.15	0
2000	165	17	181.78	2.32	-2.04	0
2000	165	18	143.96	2.53	-1.79	0
2000	165	19	106.16	2.03	-1.67	0
2000	165	20	101.6	2.05	-1.61	0.11
2000	165	21	117.83	2.16	-0.71	0.01
2000	165	22	117.02	1.99	-0.79	0
2000	165	23	31.18	2.36	-1.55	0
2000	166	0	15.52	1.38	-1.78	0
2000	166	1	60	2.44	-1.79	0
2000	166	2	88.62	1.7	-1.48	0
2000	166	3	52.14	1.41	-1.49	0
2000	166	4	68.15	1.33	-1.83	0
2000	166	5	31.5	2.89	-1.95	0

2000	166	6	22.11	3.38	-2.18	0
2000	166	7	76.79	1.79	-2.21	0
2000	166	8	54.1	2.93	-2.21	0
2000	166	9	96.65	2.66	-2.28	0
2000	166	10	66.27	2.83	-2.29	0
2000	166	11	161.49	2.42	-2.48	0
2000	166	12	129.46	2.41	-2.51	0
2000	166	13	174.14	3.88	-2.58	0
2000	166	14	174.03	3.97	-2.47	0
2000	166	15	173.4	4.23	-2.39	0
2000	166	16	161.78	3.15	-2.25	0
2000	166	17	151.27	2.59	-2.17	0
2000	166	18	147.13	2.42	-1.94	0
2000	166	19	152.94	2.54	-1.89	0
2000	166	20	133.11	2.61	-1.91	0
2000	166	21	113.9	2.14	-1.79	0
2000	166	22	92.3	1.71	-1.8	0
2000	166	23	89.6	2.26	-1.93	0
2000	167	0	80.03	2.28	-1.76	0
2000	167	1	111.93	1.77	-1.55	0
2000	167	2	104.13	1.49	-1.72	0
2000	167	3	65.88	1.2	-1.58	0
2000	167	4	24.94	1.49	-1.35	0
2000	167	5	78.3	1.5	-1.09	0
2000	167	6	49.42	2.08	-1.17	0
2000	167	7	234.08	1.37	-1.77	0
2000	167	8	40.5	1.68	-1.75	0
2000	167	9	298.44	2.37	-1.79	0
2000	167	10	234.61	1.86	-2.31	0
2000	167	11	137.72	3.02	-2.43	0
2000	167	12	190.24	4.8	-2.85	0
2000	167	13	178.64	4.37	-2.91	0
2000	167	14	194.4	3.82	-2.56	0
2000	167	15	209.42	3.3	-2	0
2000	167	16	179.44	3.87	-1.93	0
2000	167	17	220.14	2.35	-0.55	0
2000	167	18	217.32	1.68	0.09	0
2000	167	19	179.99	2.46	-0.71	0
2000	167	20	173.38	2.8	-1.17	0
2000	167	21	167.34	3.06	-1.25	0
2000	167	22	172.59	3.94	-1.44	0
2000	167	23	177.68	4.29	-1.35	0
2000	168	0	169.86	2.18	-0.88	0
2000	168	1	261.75	1.6	-1.17	0
2000	168	2	205.7	1.83	-0.9	0
2000	168	3	181.34	2.16	-0.4	0
2000	168	4	359.43	2.01	-0.25	0
2000	168	5	13.72	3.82	-0.8	0
2000	168	6	350.69	3.26	-1.78	0

2000	168	7	202.24	3.08	-2.52	0
2000	168	8	214.67	3.4	-2.2	0
2000	168	9	175.55	5.25	-3.03	0
2000	168	10	175.58	7.44	-2.61	0
2000	168	11	188.93	10.17	-2.98	0
2000	168	12	193.78	9.79	-3.27	0
2000	168	13	190.71	9.52	-3.21	0
2000	168	14	193.27	7.81	-2.95	0
2000	168	15	193.2	8.47	-3.04	0
2000	168	16	185.38	8.26	-2.16	0
2000	168	17	187.01	6.9	-1.31	0
2000	168	18	183.43	6.33	-0.77	0
2000	168	19	183.39	5.33	-0.22	0
2000	168	20	193.11	3.59	-0.05	0
2000	168	21	173.84	3.86	0.55	0
2000	168	22	182.16	5.9	-0.51	0
2000	168	23	179.78	5.18	-0.28	0
2000	169	0	177.43	4.49	0.26	0
2000	169	1	177.13	3.63	0.37	0
2000	169	2	180.98	4.45	0.1	0
2000	169	3	181.74	2.09	-0.37	0
2000	169	4	181.07	2.29	0.43	0
2000	169	5	176.29	2.59	0.61	0
2000	169	6	176.08	3.56	-1.26	0
2000	169	7	174.72	4.23	-2.27	0
2000	169	8	171.02	4.42	-2.41	0
2000	169	9	198.49	5.39	-2.96	0
2000	169	10	220.06	5.74	-2.91	0
2000	169	11	232.23	5.31	-2.87	0
2000	169	12	224.32	6.02	-2.76	0
2000	169	13	216.37	6.3	-2.4	0
2000	169	14	229.84	6.95	-2.48	0
2000	169	15	248.39	5.7	-2.35	0
2000	169	16	345.13	6.94	-1.42	0
2000	169	17	324.43	4.34	-2.81	0
2000	169	18	43.35	3.6	-2.1	0
2000	169	19	3.96	4.86	-1.79	0
2000	169	20	9.66	4.36	-1.39	0
2000	169	21	24.25	3.52	-0.58	0
2000	169	22	7.45	2.25	-0.14	0
2000	169	23	39.26	2.29	0.78	0
2000	170	0	22.72	4.42	0.92	0
2000	170	1	27.3	4.41	1.65	0
2000	170	2	31.28	6.39	2.52	0
2000	170	3	36.01	3.7	1.43	0
2000	170	4	24.97	4.8	1.43	0
2000	170	5	22.79	3.85	1.21	0
2000	170	6	21.39	3.3	-0.03	0
2000	170	7	23.39	3.01	-1.07	0

2000	170	8	82.69	2.3	-0.85	0.01
2000	170	9	82.78	2.2	-1.14	0
2000	170	10	42.21	2.82	-1.19	0.17
2000	170	11	14.42	4.39	-1.82	0.01
2000	170	12	19.9	3.93	-2.21	0
2000	170	13	359.62	3.78	-2.47	0
2000	170	14	29.11	2.59	-2.25	0
2000	170	15	46.26	2.79	-1.92	0
2000	170	16	4.62	4.2	-1.81	0
2000	170	17	358.06	3.57	-1.56	0
2000	170	18	19.16	3.61	-1.91	0
2000	170	19	16.27	3.98	-1.71	0
2000	170	20	23.19	4.97	-1.67	0
2000	170	21	16.41	3.86	-1.6	0
2000	170	22	9.3	3.83	-1.23	0
2000	170	23	26.3	3.85	-1.51	0
2000	171	0	9.6	4.12	-1.65	0
2000	171	1	2.75	4.73	-2.01	0
2000	171	2	14.66	4.95	-1.99	0
2000	171	3	5.47	6.11	-2.17	0
2000	171	4	10.14	5.6	-2.36	0
2000	171	5	11.84	5.39	-2.32	0
2000	171	6	8.91	6.74	-2.26	0
2000	171	7	6.04	6.81	-2.38	0
2000	171	8	6.41	6.21	-2.51	0
2000	171	9	4.36	6.27	-2.75	0
2000	171	10	2.78	6.31	-2.92	0
2000	171	11	3.96	6.96	-3.47	0
2000	171	12	3.89	5.77	-3.32	0
2000	171	13	359.5	5.05	-2.71	0
2000	171	14	1.45	4.95	-2.82	0
2000	171	15	0.49	4.77	-2.61	0
2000	171	16	10.37	4.22	-2.43	0
2000	171	17	336.34	2.32	-2.12	0
2000	171	18	201.61	2.2	-1.72	0
2000	171	19	243.56	1.36	0.2	0
2000	171	20	274.62	1.32	1.09	0
2000	171	21	21.1	2.23	2.03	0
2000	171	22	18.06	3.32	2.58	0
2000	171	23	23.36	2.04	3.63	0
2000	172	0	29.5	3.09	3.48	0
2000	172	1	40.05	2.6	3.75	0
2000	172	2	25.09	2.73	3.91	0
2000	172	3	30.99	4.23	4.3	0
2000	172	4	71.04	2.14	3.62	0
2000	172	5	137.54	1.38	3.21	0
2000	172	6	180.56	1.78	1.5	0
2000	172	7	149.25	1.96	-1.49	0
2000	172	8	26.95	4.21	-2.45	0

2000	172	9	6.66	4.69	-2.76	0
2000	172	10	359.22	5.42	-3.23	0
2000	172	11	5.85	6.64	-3.47	0
2000	172	12	16.44	7.08	-3.49	0
2000	172	13	18.47	6.48	-3.12	0
2000	172	14	26.56	7.02	-3.21	0
2000	172	15	19.27	6.66	-3.08	0
2000	172	16	35.77	4.56	-2.73	0
2000	172	17	306.52	2.05	-2.31	0
2000	172	18	187.48	1.94	-1.34	0
2000	172	19	78.74	1.6	1.98	0
2000	172	20	338.73	1.11	2.32	0
2000	172	21	340.58	1.38	3.32	0
2000	172	22	3.29	1.8	4.12	0
2000	172	23	4.24	2.36	4.27	0
2000	173	0	2.64	2.29	4	0
2000	173	1	5.92	2.2	3.56	0
2000	173	2	21.02	2.39	2.61	0
2000	173	3	9.96	1.86	2.2	0
2000	173	4	29.77	1.63	2.55	0
2000	173	5	17.87	1.68	1.64	0
2000	173	6	339.79	1.2	-0.46	0
2000	173	7	186	3.1	-2.41	0
2000	173	8	182.58	6.37	-2.73	0
2000	173	9	174.14	7.4	-3.01	0
2000	173	10	181.07	9.8	-2.69	0
2000	173	11	172.63	8.63	-2.91	0
2000	173	12	171.57	8.7	-2.61	0
2000	173	13	167.7	9.41	-3.04	0
2000	173	14	163.19	8.62	-2.49	0
2000	173	15	167.42	8.78	-1.58	0
2000	173	16	167.16	7.13	-0.68	0
2000	173	17	183.03	7.43	-1.16	0
2000	173	18	169.38	6.84	-1.05	0
2000	173	19	165.77	6.58	-0.71	0
2000	173	20	166.4	5.58	-0.95	0
2000	173	21	175.68	5.49	0.13	0.03
2000	173	22	182.05	6.08	-0.64	0.13
2000	173	23	182.01	3.82	-0.92	0.05
2000	174	0	170.34	2.87	-0.79	0
2000	174	1	170.88	3.45	-0.74	0
2000	174	2	179.21	3.08	-0.26	0
2000	174	3	204.38	1.9	-0.42	0
2000	174	4	136.27	1.81	0.71	0
2000	174	5	195.95	1.43	-0.32	0
2000	174	6	179.56	2.23	-1.22	0
2000	174	7	177.11	2.49	-1.88	0
2000	174	8	165.36	3.05	-2.03	0
2000	174	9	168.9	4.25	-2.81	0

2000	174	10	169.82	4.65	-2.87	0
2000	174	11	176.06	4.48	-2.66	0
2000	174	12	192.78	6.45	-2.4	0
2000	174	13	198.19	8.62	-2.74	0
2000	174	14	197.49	8.94	-2.71	0
2000	174	15	190.91	8.9	-2.11	0
2000	174	16	202.45	6.59	-1.86	0
2000	174	17	201.76	6.3	-1.84	0
2000	174	18	204.15	5.24	-1.45	0
2000	174	19	197.42	4.53	-0.68	0
2000	174	20	203.21	2.36	0.05	0
2000	174	21	225.08	2.43	1.54	0
2000	174	22	195.68	2.4	3.16	0
2000	174	23	218.74	3.05	1.87	0
2000	175	0	231.61	3.48	-0.45	0
2000	175	1	224.1	3.42	-0.24	0
2000	175	2	205.16	3.05	-0.24	0
2000	175	3	230.77	1.89	0.22	0
2000	175	4	219.08	2.83	1.48	0
2000	175	5	217.98	3.15	0.74	0
2000	175	6	242.74	4.15	-1.71	0
2000	175	7	267.49	5.28	-2.89	0
2000	175	8	317.73	4.22	-3.55	0
2000	175	9	352.65	4.64	-3.34	0
2000	175	10	334.07	3.72	-3.17	0
2000	175	11	343.77	3.73	-2.95	0
2000	175	12	335.87	4.49	-3.76	0
2000	175	13	330.28	4.98	-3.82	0
2000	175	14	5.76	7.65	-3.38	0
2000	175	15	6.53	6.67	-3.16	0
2000	175	16	2.28	4.18	-2.74	0
2000	175	17	275.37	3.1	-2.78	0
2000	175	18	236.29	2.47	-1.81	0
2000	175	19	261.28	1.95	1.65	0
2000	175	20	9.61	1.85	3.03	0
2000	175	21	42.25	2.64	3.33	0
2000	175	22	19.39	2.27	5.71	0
2000	175	23	17.8	4.05	6.11	0
2000	176	0	10.45	1.87	5.44	0
2000	176	1	27.45	4.41	4.55	0
2000	176	2	27.17	6.08	6.12	0
2000	176	3	26.63	4.58	6.33	0
2000	176	4	27.43	3.67	6.39	0
2000	176	5	32.41	4.35	4.97	0
2000	176	6	63.91	3.66	3.62	0
2000	176	7	31.53	2.31	-1.02	0
2000	176	8	317.28	2.43	-1.71	0
2000	176	9	187.25	3.48	-2.71	0
2000	176	10	174.45	3.85	-3.33	0

2000	176	11	173.71	4.81	-3.35	0
2000	176	12	157.51	4.37	-3.17	0
2000	176	13	164.8	4.51	-2.92	0
2000	176	14	165.88	4.37	-2.67	0
2000	176	15	160.7	4.74	-2.27	0
2000	176	16	165.84	5.49	-1.56	0
2000	176	17	165.35	5.27	-1.29	0
2000	176	18	168.44	5.43	-1.2	0
2000	176	19	175.36	5.32	-0.77	0
2000	176	20	175.49	5.03	-0.33	0
2000	176	21	173.56	3.21	0	0
2000	176	22	180.94	2.85	0.18	0
2000	176	23	190.59	1.89	0.66	0
2000	177	0	198.16	1.06	0.85	0
2000	177	1	307.16	1.23	2.48	0
2000	177	2	5.95	1.07	2.85	0
2000	177	3	29.32	1.12	1.54	0
2000	177	4	13.87	1.2	0.61	0
2000	177	5	352.87	1.06	-0.14	0
2000	177	6	209.82	1.69	-1.31	0
2000	177	7	183.63	4.09	-2.16	0
2000	177	8	183.01	4.82	-2.53	0
2000	177	9	173.73	4.83	-3.21	0
2000	177	10	166.87	5.73	-3.2	0
2000	177	11	167.64	6.69	-2.73	0
2000	177	12	169.05	7.32	-2.35	0
2000	177	13	166.54	7.87	-1.74	0
2000	177	14	165.41	6.91	-1.64	0
2000	177	15	164.52	7.39	-1.93	0
2000	177	16	166.76	7.84	-1.75	0
2000	177	17	168.4	6.8	-1.16	0
2000	177	18	167.66	6.22	0.34	0
2000	177	19	167.93	4.55	0.79	0
2000	177	20	211.22	3.09	-0.22	0
2000	177	21	31.46	1.87	0.59	0
2000	177	22	19.28	2.21	2.25	0
2000	177	23	29.16	3.24	2.05	0
2000	178	0	32.7	4.71	2.5	0
2000	178	1	24.87	5.17	2.48	0
2000	178	2	123.27	2.1	1.19	0
2000	178	3	29.85	2.71	0.5	0
2000	178	4	33.82	3.07	0.96	0
2000	178	5	34.47	4.1	0.78	0.05
2000	178	6	208.06	2.63	-0.01	0
2000	178	7	167.1	1.32	-1.37	0
2000	178	8	211.29	2.54	-2.16	0
2000	178	9	170.6	4.55	-2.89	0
2000	178	10	171.87	4.37	-2.96	0
2000	178	11	171.53	4.45	-2.78	0

2000	178	12	180.96	3.93	-2.66	0
2000	178	13	181.78	6.48	-2.4	0
2000	178	14	190.51	7.51	-2.8	0
2000	178	15	189.78	7.02	-2.33	0
2000	178	16	175.58	6.61	-2.26	0
2000	178	17	161.15	4.21	-1.17	0
2000	178	18	183.67	5.65	-0.34	0
2000	178	19	192.33	5.76	-1.27	0
2000	178	20	194.27	5.68	-1.49	0
2000	178	21	189.41	5.06	-1.18	0
2000	178	22	190.1	3.59	0.17	0
2000	178	23	205.71	2.59	0.4	0
2000	179	0	179.26	3.87	0.5	0
2000	179	1	185.82	1.96	0.62	0
2000	179	2	175.78	4.32	0.49	0
2000	179	3	186.26	2.08	-0.27	0
2000	179	4	170.92	2.21	0.59	0
2000	179	5	174.95	3.08	-0.75	0
2000	179	6	179.54	4.02	-1.61	0
2000	179	7	173.16	3.87	-2.22	0
2000	179	8	172.17	3.69	-2.47	0
2000	179	9	216.92	2.85	-2.17	0
2000	179	10	254.43	3.96	-3.05	0
2000	179	11	226.9	4.12	-2.86	0
2000	179	12	205.05	5.54	-2.56	0
2000	179	13	248.23	6.93	-1.83	0.57
2000	179	14	150	2.57	-1.35	0.05
2000	179	15	349.63	3.3	-1.85	0.01
2000	179	16	158.14	2.59	-1.39	0
2000	179	17	207.99	2.87	-1.51	0
2000	179	18	136.85	1.99	-0.91	0
2000	179	19	133.33	1.82	0.09	0
2000	179	20	332.04	1.64	1.28	0
2000	179	21	135.61	1.59	1.21	0
2000	179	22	61.87	1.79	2.1	0
2000	179	23	23.78	2.74	1.37	0
2000	180	0	24.45	4.6	4.4	0
2000	180	1	30.35	5.52	4.4	0
2000	180	2	25.63	5.12	3.28	0
2000	180	3	27.57	3.83	1.33	0
2000	180	4	30.65	4.74	2.43	0
2000	180	5	45.43	3.89	2.7	0
2000	180	6	45.96	3.82	0.4	0
2000	180	7	17.17	2.55	-2.01	0
2000	180	8	39.95	3.39	-2.41	0
2000	180	9	2.61	4.11	-2.47	0
2000	180	10	346.29	3.38	-2.73	0
2000	180	11	258.68	3.84	-2.79	0
2000	180	12	181.46	4.76	-2.96	0

2000	180	13	158	3.89	-2.93	0
2000	180	14	162.89	4	-3.2	0
2000	180	15	170.5	4.56	-3.36	0
2000	180	16	167.64	4.48	-1.97	0
2000	180	17	173.51	4.71	-1.35	0
2000	180	18	177.86	6.17	-1.3	0
2000	180	19	179.61	5.26	-1.07	0
2000	180	20	263.94	2.42	0.72	0
2000	180	21	77.7	1.68	0.39	0
2000	180	22	16.84	3.17	1.15	0
2000	180	23	20.15	4.47	1.62	0
2000	181	0	25.66	5.65	2.21	0
2000	181	1	33.32	6.27	2.41	0
2000	181	2	33.85	5.01	1.43	0
2000	181	3	69.02	2.01	-0.37	0
2000	181	4	14.99	1.87	-0.43	0
2000	181	5	16.6	3.89	-0.35	0
2000	181	6	28.52	3.7	-0.64	0
2000	181	7	34.67	3.21	-1.32	0
2000	181	8	96.79	1.93	-2.08	0
2000	181	9	189.55	3.54	-2.54	0
2000	181	10	174.52	4.12	-2.91	0
2000	181	11	165.27	4.8	-3.3	0
2000	181	12	156.79	4.41	-3.43	0
2000	181	13	161.47	5.39	-3.68	0
2000	181	14	156.65	4.83	-3.57	0
2000	181	15	161.28	4.72	-3.21	0
2000	181	16	164.15	4.84	-2.75	0
2000	181	17	56.12	6.17	-1.8	0.07
2000	181	18	111.96	4.5	0.73	0.28
2000	181	19	195.26	2.38	-0.36	0
2000	181	20	192.36	1.54	-1.02	0
2000	181	21	237.67	1.64	-0.32	0
2000	181	22	81.75	1.47	1.5	0
2000	181	23	50.49	1.6	0.01	0
2000	182	0	27.6	3.87	1.63	0
2000	182	1	98.88	2.99	1.93	0
2000	182	2	39	2.67	-0.14	0
2000	182	3	111.14	2.14	1.4	0
2000	182	4	23.48	2.8	0.24	0
2000	182	5	29.23	3.67	-1.01	0
2000	182	6	24.85	2.97	-1.97	0
2000	182	7	3.25	5.22	-2.38	0
2000	182	8	2.58	5.89	-2.71	0
2000	182	9	336.66	4.77	-3.38	0
2000	182	10	344.78	4.45	-3.47	0
2000	182	11	300.24	5.08	-4.01	0
2000	182	12	322.99	4.84	-3.88	0
2000	182	13	336.39	4.53	-3.81	0

2000	182	14	343.97	5.09	-3.21	0
2000	182	15	335.47	4.56	-2.73	0
2000	182	16	336.84	3.6	-2.85	0
2000	182	17	243.11	3.08	-2.89	0
2000	182	18	226.03	2.26	-1.66	0
2000	182	19	251.85	2.23	1.17	0
2000	182	20	231.08	1.4	3.08	0
2000	182	21	83.18	2.71	3.63	0
2000	182	22	50.81	2.69	3.47	0
2000	182	23	29.3	3.67	4.27	0
2000	183	0	42.82	3.86	5.01	0
2000	183	1	32.98	2.98	3.03	0
2000	183	2	46.91	4.48	3.62	0
2000	183	3	31.23	2.91	1.52	0
2000	183	4	38.26	3.06	3.81	0
2000	183	5	30.17	2.9	2.47	0
2000	183	6	26.05	3.17	-0.43	0
2000	183	7	35.02	2.76	-1.86	0
2000	183	8	233.81	2.48	-2.72	0
2000	183	9	12.61	3.23	-2.28	0
2000	183	10	340.73	2.93	-2.75	0
2000	183	11	5.03	3.27	-2.92	0
2000	183	12	348.38	3.43	-2.85	0
2000	183	13	335.75	3.04	-2.64	0
2000	183	14	186.81	3.55	-2.84	0
2000	183	15	186.55	4.35	-2.91	0
2000	183	16	181.01	3.97	-2.48	0
2000	183	17	175.24	4.01	-2.16	0
2000	183	18	173.14	1.53	-1.21	0
2000	183	19	196.07	1.18	1.15	0
2000	183	20	186.15	1.47	2.12	0
2000	183	21	0.33	2.17	2.93	0
2000	183	22	359.49	2.18	2.87	0
2000	183	23	357.82	1.62	3.14	0
2000	184	0	0.67	1.66	3.77	0
2000	184	1	12.73	2.52	3.95	0
2000	184	2	19.65	3.18	4.34	0
2000	184	3	23.21	3.02	4	0
2000	184	4	17.63	2.17	4.16	0
2000	184	5	19.28	2.47	4.1	0
2000	184	6	38.35	1.89	1.79	0
2000	184	7	236.06	2.39	-0.86	0
2000	184	8	194.07	3.01	-1.93	0
2000	184	9	188.05	3.08	-2.77	0
2000	184	10	192.7	4.26	-2.79	0
2000	184	11	188.98	5.03	-3.02	0
2000	184	12	180.75	4.5	-2.64	0
2000	184	13	176.57	4.57	-3.01	0
2000	184	14	163.67	3.45	-2.92	0

2000	184	15	192.36	3.07	-2.91	0
2000	184	16	193.49	4.16	-2.56	0
2000	184	17	231.71	3.52	-2.27	0
2000	184	18	207.44	3.26	-1.09	0
2000	184	19	183.26	2.52	-0.05	0
2000	184	20	148.75	1.45	0.98	0
2000	184	21	222.16	1.49	2.25	0
2000	184	22	0.6	1.85	2.8	0
2000	184	23	358.31	2.71	2.58	0
2000	185	0	351	2.41	3.1	0
2000	185	1	40.65	1.57	4.08	0
2000	185	2	11.14	1.72	3.61	0
2000	185	3	0.7	1.57	3.12	0
2000	185	4	10.95	1.97	2.92	0
2000	185	5	359.53	1.96	2.2	0
2000	185	6	10.44	1.51	-0.38	0
2000	185	7	233.5	2.27	-2	0
2000	185	8	187.65	3.63	-2.67	0
2000	185	9	195.11	3.37	-2.57	0
2000	185	10	243.01	3.14	-1.77	0
2000	185	11	206.18	3.09	-2.26	0
2000	185	12	166.92	3.54	-3	0
2000	185	13	176.45	3.37	-1.64	0
2000	185	14	198.35	2.43	-0.95	0
2000	185	15	165.72	2.03	-0.72	0
2000	185	16	165.98	1.89	-0.41	0.01
2000	185	17	176.8	3.14	-0.01	0.15
2000	185	18	188.47	2	0.07	0.04
2000	185	19	181.19	2.43	-0.26	0
2000	185	20	181.94	2.98	-1.18	0
2000	185	21	199.51	2.12	-0.76	0
2000	185	22	191.19	2.5	-0.67	0
2000	185	23	189.16	3.97	-0.4	0
2000	186	0	185.75	3.3	-0.99	0
2000	186	1	182.33	1.26	-0.76	0
2000	186	2	181.77	1.09	-0.86	0
2000	186	3	177.41	1.96	-0.4	0
2000	186	4	196.02	1.31	-0.06	0
2000	186	5	31.87	1.64	-0.62	0
2000	186	6	145.24	1.57	-1.32	0
2000	186	7	176.03	2.1	-2.1	0
2000	186	8	144.29	1.78	-2.29	0
2000	186	9	178.45	2.65	-2.46	0
2000	186	10	196.7	2.94	-2.5	0
2000	186	11	114.75	2.46	-2.38	0
2000	186	12	219.01	3.21	-2.03	0
2000	186	13	184.49	4.95	-2.66	0
2000	186	14	167.82	3.69	-3.11	0
2000	186	15	175.44	3.84	-3	0

2000	186	16	166.09	2.77	-2.02	0
2000	186	17	205.71	2.02	-1.28	0
2000	186	18	211.81	3.27	-1.28	0
2000	186	19	230.09	3.15	-0.87	0
2000	186	20	256.6	2.86	-0.05	0
2000	186	21	268.04	3.04	0.68	0
2000	186	22	320.98	3.51	-0.78	0
2000	186	23	5.03	3.96	-0.9	0
2000	187	0	24.57	4.49	-1.5	0
2000	187	1	351.62	3.14	-1.13	0
2000	187	2	313.01	2.46	-1.19	0
2000	187	3	119.78	2.08	0.3	0
2000	187	4	55.81	2.91	0.42	0
2000	187	5	35.38	4.51	-1.02	0
2000	187	6	12.61	4.7	-2.01	0
2000	187	7	5.91	3.8	-2.49	0
2000	187	8	0.4	4.39	-2.73	0
2000	187	9	1.81	4.91	-2.98	0
2000	187	10	358.39	5.79	-2.96	0
2000	187	11	1.24	5.63	-3.14	0
2000	187	12	358.64	6	-3.19	0
2000	187	13	338.27	5.23	-3.4	0
2000	187	14	334.8	4.97	-3.6	0
2000	187	15	358.48	5.42	-3.24	0
2000	187	16	358.25	5.22	-2.62	0
2000	187	17	358.84	5.29	-2.43	0
2000	187	18	2.07	5.14	-1.95	0
2000	187	19	2.75	5.16	-1.68	0
2000	187	20	6.84	5.46	-1.14	0
2000	187	21	27.01	2.91	0.37	0
2000	187	22	28.17	3.11	1.81	0
2000	187	23	56.15	3.05	1.91	0
2000	188	0	17.27	4.77	0.91	0
2000	188	1	17.68	7.39	-1.36	0
2000	188	2	20.56	8.1	-1.68	0
2000	188	3	23.51	6.95	-1.51	0
2000	188	4	19.77	6.62	-1.68	0
2000	188	5	30.38	4.6	-1.47	0
2000	188	6	20.66	4.94	-2.29	0
2000	188	7	6.13	6.01	-2.84	0
2000	188	8	359.48	5.68	-3.13	0
2000	188	9	358.12	5.23	-3.32	0
2000	188	10	355.33	5.09	-3.36	0
2000	188	11	9.45	5.94	-3.32	0
2000	188	12	5.66	6.39	-3.39	0
2000	188	13	15.65	6.29	-3.13	0
2000	188	14	11.72	4.89	-2.74	0
2000	188	15	22.71	3.67	-2.48	0
2000	188	16	356.74	2.84	-2.37	0

2000	188	17	359.01	4.31	-2.11	0
2000	188	18	10.75	6.99	-2.69	0
2000	188	19	16.04	6.45	-2.27	0
2000	188	20	4.69	4.98	-1.74	0
2000	188	21	30.72	2.66	-0.03	0
2000	188	22	27.88	3.11	1.8	0
2000	188	23	21.82	4.3	2.27	0
2000	189	0	30.7	4.93	1.81	0
2000	189	1	54.62	3.83	0.75	0
2000	189	2	44.79	2.92	0.97	0
2000	189	3	21.49	4.79	0.09	0
2000	189	4	9.36	6.31	-1.37	0
2000	189	5	9.14	6.53	-1.72	0
2000	189	6	8.82	7.63	-2.43	0
2000	189	7	3.73	8.44	-2.68	0
2000	189	8	6.36	6.73	-3.13	0
2000	189	9	12.14	7.54	-3.54	0
2000	189	10	4.89	7.06	-3.46	0
2000	189	11	7.5	7.18	-3.55	0
2000	189	12	1.14	5.67	-3.09	0
2000	189	13	4.41	5.9	-3.19	0
2000	189	14	4.24	7.61	-2.73	0
2000	189	15	2.48	7.98	-2.59	0
2000	189	16	358.48	6.22	-2.45	0
2000	189	17	2.66	5.27	-2.52	0
2000	189	18	354.9	5.75	-2.42	0
2000	189	19	2.1	5.21	-1.92	0
2000	189	20	359.38	5.15	-1.86	0
2000	189	21	358.94	6.42	-1.81	0
2000	189	22	338.35	4.62	-1.54	0
2000	189	23	353.6	3.66	-1.51	0
2000	190	0	343.44	3.47	-1.5	0
2000	190	1	6.18	3.89	-1.38	0
2000	190	2	63.11	2.7	-0.46	0
2000	190	3	71.34	2.04	0.62	0
2000	190	4	17.77	4.34	-0.66	0
2000	190	5	9.92	4.93	-1.61	0
2000	190	6	359.37	4.12	-2.34	0
2000	190	7	2.19	5.06	-2.89	0
2000	190	8	359.06	6.27	-3.08	0
2000	190	9	359.95	6.97	-3.36	0
2000	190	10	2.85	6.52	-3.53	0
2000	190	11	6.5	7.15	-3.54	0
2000	190	12	26.37	5.89	-3.29	0
2000	190	13	27.26	4.61	-2.88	0
2000	190	14	24.59	4.89	-2.89	0
2000	190	15	349.22	3.74	-2.91	0
2000	190	16	345.59	4.47	-3.38	0
2000	190	17	350.47	3.72	-3.02	0

2000	190	18	241.57	2.53	-2	0
2000	190	19	246.75	2.23	1.89	0
2000	190	20	49.07	1.97	1.61	0
2000	190	21	58.4	2.44	2.91	0
2000	190	22	47.3	2.07	3.88	0
2000	190	23	31.39	2.65	4.24	0
2000	191	0	59.56	2.06	4.62	0
2000	191	1	25.56	1.84	5.54	0
2000	191	2	1.3	1.85	4.49	0
2000	191	3	3.19	1.8	3.18	0
2000	191	4	19.22	2.64	3.1	0
2000	191	5	16.33	1.38	2.18	0
2000	191	6	36.75	2.49	0.21	0
2000	191	7	180.09	2.8	-2.34	0
2000	191	8	179.46	3.93	-2.69	0
2000	191	9	167.52	4.27	-3.12	0
2000	191	10	183.16	5.9	-3.19	0
2000	191	11	201.3	7.46	-3.59	0
2000	191	12	197.3	7.84	-3.18	0
2000	191	13	197.73	7.21	-2.72	0
2000	191	14	196.37	6.54	-2.06	0
2000	191	15	190.63	5.6	-1.53	0
2000	191	16	186.46	3.88	-0.42	0
2000	191	17	240.76	2.22	1.92	0
2000	191	18	185.88	4.86	0.31	0
2000	191	19	195.4	4.56	-0.2	0
2000	191	20	200.21	2.65	1.24	0
2000	191	21	189.88	2.25	1.49	0
2000	191	22	180.43	5.39	0.99	0
2000	191	23	188.69	6.16	-0.5	0
2000	192	0	187.66	7.17	0.21	0
2000	192	1	177.85	4.45	0.71	0
2000	192	2	178.53	1.75	0.02	0
2000	192	3	193.54	3.94	0.32	0
2000	192	4	186.02	5.63	-0.34	0
2000	192	5	179.62	2.42	-0.47	0
2000	192	6	158.9	2.71	-1.2	0
2000	192	7	209.36	4.43	-2.04	0
2000	192	8	252.77	5.34	-2.71	0
2000	192	9	254.67	5.15	-3.43	0
2000	192	10	248.43	4.94	-3.53	0
2000	192	11	250.69	5.37	-3.48	0
2000	192	12	271.29	4.98	-3.25	0
2000	192	13	251.24	5	-3.4	0
2000	192	14	256.87	4.22	-2.55	0
2000	192	15	255.51	3.06	-2.12	0
2000	192	16	254.24	3.19	-1.71	0
2000	192	17	245.68	3.02	-1.2	0
2000	192	18	309.26	3.14	-1.32	0

2000	192	19	350.7	5.18	-1.77	0
2000	192	20	355.78	5.28	-1.9	0
2000	192	21	350.3	3.83	-1.75	0
2000	192	22	5.21	4.86	-1.8	0
2000	192	23	9.69	5.74	-1.77	0
2000	193	0	12.35	3.89	-1.38	0
2000	193	1	7.53	2.51	-0.64	0
2000	193	2	44.16	2	0.43	0
2000	193	3	64.65	2.1	0.34	0
2000	193	4	32.86	3.24	0.24	0
2000	193	5	10.48	4.72	-0.8	0
2000	193	6	34.55	4.18	-1.83	0
2000	193	7	33.81	4.2	-2.44	0
2000	193	8	7.52	7.79	-3	0
2000	193	9	4.86	7.26	-3.29	0
2000	193	10	5.62	6.9	-3.68	0
2000	193	11	8.89	5.45	-3.36	0
2000	193	12	354.11	5.03	-3.74	0
2000	193	13	335.58	3.92	-3.71	0
2000	193	14	337.37	3.86	-3.3	0
2000	193	15	345.44	4.19	-3.16	0
2000	193	16	0.04	4.27	-2.51	0
2000	193	17	3.53	4.43	-2.13	0
2000	193	18	1.09	3.64	-2.04	0
2000	193	19	354.82	3.66	-1.47	0
2000	193	20	1.56	4.12	-1.34	0
2000	193	21	9.7	4.65	-1.43	0
2000	193	22	29.49	3.31	-0.07	0
2000	193	23	19.5	4.14	-0.16	0
2000	194	0	17	6.11	-0.3	0
2000	194	1	14.37	7.48	-1.11	0
2000	194	2	13.27	6.64	-1.61	0
2000	194	3	10.59	5.47	-1.46	0
2000	194	4	9.41	5.34	-1.18	0
2000	194	5	16.73	4.52	-1.47	0
2000	194	6	17.71	5.92	-2.12	0
2000	194	7	15.08	6.73	-2.88	0
2000	194	8	5.48	6.86	-3.27	0
2000	194	9	2.44	6.92	-3.45	0
2000	194	10	359.59	6.89	-3.6	0
2000	194	11	0.45	6.2	-3.9	0
2000	194	12	4.33	6.91	-3.77	0
2000	194	13	0.35	6.19	-3.85	0
2000	194	14	359.96	5.72	-3.63	0
2000	194	15	2.86	6.46	-3.45	0
2000	194	16	1.21	5.38	-3.08	0
2000	194	17	2.95	3.98	-2.6	0
2000	194	18	298.12	1.99	-1.4	0
2000	194	19	309.69	1.26	2.21	0

2000	194	20	16.95	3.01	2.95	0
2000	194	21	16.84	3.31	4.26	0
2000	194	22	22.4	3.1	5	0
2000	194	23	23.21	1.99	4.58	0
2000	195	0	14.69	2.63	4.57	0
2000	195	1	27.4	3.28	4.52	0
2000	195	2	52.27	1.79	4.18	0
2000	195	3	10.65	2.23	3.79	0
2000	195	4	24.36	3.68	3.52	0
2000	195	5	28.35	5.42	3.3	0
2000	195	6	29.79	4.87	1	0
2000	195	7	30.43	3.7	-1.75	0
2000	195	8	8.53	2.58	-2.38	0
2000	195	9	272.18	2.91	-2.43	0
2000	195	10	191.35	4.37	-2.8	0
2000	195	11	175.12	4.62	-2.97	0
2000	195	12	176.58	4.4	-2.82	0
2000	195	13	183.36	5.3	-3.34	0
2000	195	14	174.34	4.94	-3.17	0
2000	195	15	191.61	5.63	-3.61	0
2000	195	16	191.36	6.1	-2.82	0
2000	195	17	170.29	6.12	-2.14	0
2000	195	18	166.06	4.61	-1.57	0
2000	195	19	160.12	2.66	-0.99	0
2000	195	20	180.91	5.74	-0.89	0
2000	195	21	185.89	5.92	-0.68	0
2000	195	22	183.87	4.2	-0.6	0
2000	195	23	178.13	2.49	-0.11	0
2000	196	0	172.68	2.61	-0.8	0
2000	196	1	160.4	1.68	-0.3	0
2000	196	2	133.01	1.25	0.08	0
2000	196	3	42.38	1.51	0.88	0
2000	196	4	354.36	1.64	1.09	0
2000	196	5	356.49	1.6	0.29	0
2000	196	6	10.83	1.41	-0.48	0
2000	196	7	153.45	2.29	-2.2	0
2000	196	8	185.27	3.09	-2.69	0
2000	196	9	183.31	4.33	-2.9	0
2000	196	10	182.18	6.12	-3.16	0
2000	196	11	181.66	6.16	-2.66	0
2000	196	12	180.13	6.41	-2.6	0
2000	196	13	173.07	7.59	-3.02	0
2000	196	14	180.84	8.67	-1.7	0.08
2000	196	15	176.53	7.55	-2.66	0
2000	196	16	164.45	4.23	-2.63	0
2000	196	17	170.18	5.69	-2.36	0
2000	196	18	171.71	4.51	-1.62	0
2000	196	19	175.73	4.93	-1.12	0
2000	196	20	148.32	2.34	-0.87	0

2000	196	21	167.19	2.52	-1.15	0
2000	196	22	119.21	1.94	-0.21	0.04
2000	196	23	160.98	2.54	-0.11	0
2000	197	0	149.09	2.17	0.02	0
2000	197	1	151.91	2.71	-0.19	0
2000	197	2	134.43	2.1	-0.34	0
2000	197	3	106.84	2.1	-1.09	0.09
2000	197	4	75.88	3.29	-0.54	0.03
2000	197	5	77.13	3.74	-0.37	0
2000	197	6	153.6	4.58	-1.02	0.16
2000	197	7	162.8	2.99	-1.29	0.26
2000	197	8	165.84	4.05	-1.07	0.13
2000	197	9	153.74	5.33	-1.09	0.03
2000	197	10	157.82	6.8	-1.09	0
2000	197	11	168.18	5.08	-1.75	0
2000	197	12	171.29	7.28	-1.73	0
2000	197	13	164.2	4.68	-1.5	0
2000	197	14	172.66	5.53	-1.32	0.12
2000	197	15	131.27	2.96	-1.34	0
2000	197	16	68.12	2.71	-1.23	0
2000	197	17	53.99	2.53	-1.07	0
2000	197	18	49.2	2.49	-0.35	0
2000	197	19	47.21	2.82	-0.68	0
2000	197	20	59.13	1.83	-1	0
2000	197	21	91.73	2.33	-0.55	0
2000	197	22	60.4	2.59	-0.86	0
2000	197	23	59.28	3.6	-1.45	0
2000	198	0	66.23	3.76	-1.19	0
2000	198	1	72.65	2.75	-1.26	0
2000	198	2	85.08	2.09	-0.84	0
2000	198	3	130.68	2.44	-0.06	0
2000	198	4	184.85	3.85	-1.29	0
2000	198	5	181.18	1.96	-1.13	0
2000	198	6	176.63	3.71	-1.79	0
2000	198	7	184.34	4.79	-2.32	0
2000	198	8	178.57	4.79	-2.42	0
2000	198	9	176.56	4.48	-2.52	0
2000	198	10	177.18	4.97	-2.88	0
2000	198	11	179.16	4.98	-2.96	0
2000	198	12	167.87	4.51	-3.2	0
2000	198	13	169.8	4.57	-3.18	0
2000	198	14	163.94	4.3	-3.34	0
2000	198	15	174.74	5.5	-3.11	0
2000	198	16	169.4	5.13	-2.23	0
2000	198	17	178.56	6.44	-1.57	0
2000	198	18	187.39	5.33	-1.48	0
2000	198	19	187.36	3.26	-1.19	0
2000	198	20	216.31	1.71	-0.35	0
2000	198	21	302.09	1.42	-0.52	0

2000	198	22	109.3	1.26	0.07	0
2000	198	23	179.52	1.19	0.11	0
2000	199	0	25.18	3.54	0.11	0
2000	199	1	30.34	4.52	0.37	0
2000	199	2	25.2	3.75	-0.31	0
2000	199	3	33.52	5.2	0.84	0
2000	199	4	32.47	3.37	0.91	0
2000	199	5	55.41	2.82	0.2	0
2000	199	6	35.75	2.25	-1.58	0
2000	199	7	7.85	2.51	-2.06	0
2000	199	8	345.1	2.06	-2.37	0
2000	199	9	231.16	3.08	-2.33	0
2000	199	10	192.56	4.66	-2.93	0
2000	199	11	189.53	5.58	-2.94	0
2000	199	12	190.59	4.61	-2.88	0
2000	199	13	182.3	4.13	-3.17	0
2000	199	14	170.97	6.58	-3.55	0
2000	199	15	173.51	7.01	-2.87	0
2000	199	16	176.04	3.82	-1.41	0.02
2000	199	17	171.59	4.57	-1.86	0
2000	199	18	173.68	4.14	-1.93	0
2000	199	19	174.1	2.66	-1.17	0
2000	199	20	170.21	2.84	-1.62	0
2000	199	21	182.73	3.64	-1.52	0
2000	199	22	202.06	2.89	-1.56	0
2000	199	23	206.93	1.95	-1.55	0
2000	200	0	179.64	2.92	-1.3	0
2000	200	1	194.12	2.14	-0.79	0
2000	200	2	190.06	1.76	-0.31	0
2000	200	3	202.52	3.45	-0.56	0
2000	200	4	192.96	3.81	-1.2	0
2000	200	5	196.14	3.08	-1.4	0
2000	200	6	187.39	3.38	-1.92	0
2000	200	7	186.43	4.93	-1.54	0.16
2000	200	8	166.8	2.76	-1.36	0
2000	200	9	172.67	3.57	-2.71	0
2000	200	10	178.97	3.47	-2.79	0
2000	200	11	194.92	5.46	-2.55	0
2000	200	12	233.83	6.4	-2.28	0
2000	200	13	252.78	4.85	-2.46	0
2000	200	14	249.62	6.02	-2.55	0
2000	200	15	260.87	5.08	-3.16	0
2000	200	16	262.43	4.92	-2.82	0
2000	200	17	267	3.31	-2.44	0
2000	200	18	348.51	3.66	-1.67	0
2000	200	19	359.09	5.38	-1.76	0
2000	200	20	356.87	5.75	-1.86	0
2000	200	21	1.72	7.19	-2	0
2000	200	22	2.67	7.24	-1.97	0

2000	200	23	11.62	6.3	-1.99	0
2000	201	0	16.63	4.76	-1.69	0
2000	201	1	5.35	4.5	-1.73	0
2000	201	2	7.14	4.21	-1.66	0
2000	201	3	48.56	3.43	-0.72	0
2000	201	4	201.14	2.01	-0.28	0
2000	201	5	172.39	1.67	-0.16	0
2000	201	6	31.78	2.9	-1.88	0
2000	201	7	22.96	3.97	-2.1	0
2000	201	8	349.07	3.31	-2.16	0
2000	201	9	118.44	2.24	-2.29	0
2000	201	10	12.23	2.71	-2.07	0
2000	201	11	5.52	2.34	-1.71	0
2000	201	12	202.58	2.23	-1.66	0.02
2000	201	13	209.67	3.39	-1.65	0.01
2000	201	14	208.56	3.08	-2.18	0
2000	201	15	194.71	4.03	-2.24	0
2000	201	16	193.76	4.03	-2.16	0
2000	201	17	188	2.47	-1.81	0
2000	201	18	198.96	2.39	-1.69	0
2000	201	19	185.85	2.46	-1.36	0
2000	201	20	173.55	1.98	-1.15	0
2000	201	21	179.43	1.91	-1.23	0
2000	201	22	174.92	1.94	-1.24	0
2000	201	23	45.68	2.65	-1.29	0
2000	202	0	37.65	3.72	-1.2	0
2000	202	1	37.41	3.78	-1.34	0
2000	202	2	30.24	4.83	-0.87	0
2000	202	3	30.16	4.31	-0.89	0
2000	202	4	34.24	4.49	-0.53	0
2000	202	5	25.95	5.98	-1.4	0
2000	202	6	14.28	7.05	-2.3	0
2000	202	7	9.23	6.53	-2.9	0
2000	202	8	19.29	7.85	-2.93	0
2000	202	9	3.06	6.48	-3.05	0
2000	202	10	2.55	5.35	-2.61	0
2000	202	11	353.81	4.75	-3.19	0
2000	202	12	1.16	4.94	-3.18	0
2000	202	13	9.78	5.2	-3.1	0
2000	202	14	3.92	5.69	-3.3	0
2000	202	15	0.5	4.63	-3.06	0
2000	202	16	10.98	3.86	-2.71	0
2000	202	17	337.65	2.8	-2.37	0
2000	202	18	339.77	1.76	-1.67	0
2000	202	19	9.14	1.89	0.81	0
2000	202	20	19.82	3.93	2.55	0
2000	202	21	21.62	5.19	2.89	0
2000	202	22	24.44	4.58	4.08	0
2000	202	23	30.43	3.7	5.23	0

2000	203	0	57.41	2.24	4.17	0
2000	203	1	25.9	3.75	3.81	0
2000	203	2	30.31	6	4.9	0
2000	203	3	29.17	5.57	3.13	0
2000	203	4	37.76	3.22	2.55	0
2000	203	5	26.17	2.95	1.59	0
2000	203	6	28.72	3.92	-0.34	0
2000	203	7	24.12	2.83	-1.91	0
2000	203	8	259.49	2.26	-2.62	0
2000	203	9	188.3	4.16	-2.71	0
2000	203	10	178.74	4.51	-3.18	0
2000	203	11	169.79	4.61	-3.29	0
2000	203	12	186.75	7.54	-2.93	0
2000	203	13	194.28	6.88	-3.05	0
2000	203	14	198.21	6.35	-2.41	0
2000	203	15	196.46	5.26	-2.3	0
2000	203	16	177.49	4.49	-1.87	0
2000	203	17	165.57	4.41	-1.68	0
2000	203	18	93.82	6.6	-1.19	0.14
2000	203	19	26.59	6.25	-0.7	0
2000	203	20	25.07	3.64	-0.82	0
2000	203	21	77.99	2.16	0.03	0
2000	203	22	35.33	1.99	-0.69	0
2000	203	23	167.62	1.65	-0.38	0
2000	204	0	357.29	2.56	-0.2	0
2000	204	1	72.59	2.42	-0.06	0
2000	204	2	184.17	1.79	-0.34	0
2000	204	3	217.08	2.51	-0.69	0
2000	204	4	89.38	1.87	-0.64	0
2000	204	5	101	1.59	-0.74	0
2000	204	6	117.9	2.33	-0.96	0
2000	204	7	45.03	3.1	-2.31	0
2000	204	8	52.53	3.28	-2.67	0
2000	204	9	329.77	4.35	-3.48	0
2000	204	10	331.64	4.22	-3.43	0
2000	204	11	266.44	4.76	-4.07	0
2000	204	12	238.33	5.98	-3.55	0
2000	204	13	260.49	5.5	-3.75	0
2000	204	14	258.26	5.64	-3.54	0
2000	204	15	259.42	5.27	-2.84	0
2000	204	16	256.28	4.18	-2.82	0
2000	204	17	299.95	3.35	-2.75	0
2000	204	18	250.37	2.79	-1.79	0
2000	204	19	244.43	2.44	0.89	0
2000	204	20	130.89	1.7	1.77	0
2000	204	21	62.51	2.64	1.32	0
2000	204	22	56.18	2.5	2.22	0
2000	204	23	37.3	3.24	1.21	0
2000	205	0	71.27	2.66	2.58	0

2000	205	1	54.34	3.62	1.21	0
2000	205	2	55.14	3.44	-0.41	0
2000	205	3	43.51	3.21	2.33	0
2000	205	4	83.36	3.1	2.51	0
2000	205	5	80.65	3.61	-0.3	0
2000	205	6	60.83	3.41	-1.72	0
2000	205	7	65.96	2.77	-2.19	0
2000	205	8	12.84	6.08	-3.1	0
2000	205	9	12.9	5.62	-3.1	0
2000	205	10	28.78	4.74	-2.91	0
2000	205	11	2.88	4.46	-2.98	0
2000	205	12	8.8	5.21	-3.09	0
2000	205	13	8.92	4.06	-2.78	0
2000	205	14	4.13	3.31	-2.63	0
2000	205	15	239.67	3.48	-3.16	0
2000	205	16	263.43	3.24	-3.12	0
2000	205	17	339.41	2.57	-2.48	0
2000	205	18	319.26	1.85	-0.86	0
2000	205	19	333.03	1.78	0.98	0
2000	205	20	25.69	3.35	0.92	0
2000	205	21	31.6	4.43	3.45	0
2000	205	22	26.21	4.17	3.95	0
2000	205	23	26.83	5.23	3.66	0
2000	206	0	19.67	4.72	3.3	0
2000	206	1	29.64	6.51	3.37	0
2000	206	2	31.51	6.55	2.85	0
2000	206	3	34.64	5.23	4	0
2000	206	4	30.6	5.67	3.97	0
2000	206	5	31.06	6.74	2.8	0
2000	206	6	31.57	5.47	1.13	0
2000	206	7	32.55	5.86	-1.49	0
2000	206	8	29.34	3.25	-2.25	0
2000	206	9	359.32	3.35	-2.43	0
2000	206	10	6.32	3.63	-2.41	0
2000	206	11	2.15	3.16	-2.58	0
2000	206	12	356.43	3.74	-2.57	0
2000	206	13	28.07	2.94	-2.46	0
2000	206	14	94.45	2.85	-2.3	0
2000	206	15	136.03	2.29	-2.25	0
2000	206	16	111.7	1.83	-2.1	0
2000	206	17	81.74	2.06	-1.39	0
2000	206	18	80.83	2.13	-1.33	0
2000	206	19	117.42	1.53	-0.87	0
2000	206	20	27.2	2.25	0.08	0
2000	206	21	16.64	2.07	0.28	0
2000	206	22	31.92	2.19	-0.51	0
2000	206	23	37.93	2.85	-0.89	0
2000	207	0	29.43	3.89	-0.73	0
2000	207	1	21.26	4.61	-0.55	0

2000	207	2	36.16	3.48	-0.46	0
2000	207	3	31.83	2.78	-0.32	0
2000	207	4	27.59	3.8	-0.56	0
2000	207	5	64.82	1.81	-1.29	0
2000	207	6	77.14	1.87	-2.08	0
2000	207	7	73.2	1.99	-2.24	0
2000	207	8	83.59	2.31	-2.81	0
2000	207	9	83.44	2.64	-2.61	0
2000	207	10	69.81	3.33	-2.6	0
2000	207	11	143.12	2.53	-2.92	0
2000	207	12	49.53	3	-2.75	0
2000	207	13	172.71	3.94	-2.87	0
2000	207	14	183.12	4.84	-2.86	0
2000	207	15	182.19	4.21	-2.59	0
2000	207	16	173.87	4.16	-2.66	0
2000	207	17	167.13	4.28	-2.67	0
2000	207	18	127.91	2.72	-2.27	0
2000	207	19	145.37	2.76	-2.22	0
2000	207	20	107.28	2.26	-1.81	0
2000	207	21	111.08	2.44	-1.81	0
2000	207	22	119.44	2.38	-2.07	0
2000	207	23	65.52	2.29	-1.98	0
2000	208	0	32.05	3.37	-2.13	0
2000	208	1	36.48	3.64	-2.2	0
2000	208	2	37.39	4.94	-2.25	0
2000	208	3	30.32	4.84	-2.11	0
2000	208	4	32.3	6.11	-2.12	0
2000	208	5	32.7	5.82	-2.15	0
2000	208	6	30.62	6.3	-2.28	0
2000	208	7	20.99	5.89	-2.26	0
2000	208	8	19.87	5.92	-2.07	0.02
2000	208	9	23.68	5.05	-1.9	0.05
2000	208	10	28.31	4.64	-1.92	0.03
2000	208	11	21.82	4.74	-2.02	0
2000	208	12	26.74	5.42	-1.94	0
2000	208	13	20.96	6.01	-2.02	0.02
2000	208	14	24.05	4.83	-1.91	0.01
2000	208	15	25.91	4.52	-1.9	0.09
2000	208	16	13.5	4.22	-1.69	0.37
2000	208	17	20.09	3.62	-1.73	0.07
2000	208	18	13.43	3.7	-1.66	0.06
2000	208	19	6.13	2.27	-1.46	0.04
2000	208	20	18.13	1.85	-1.34	0.01
2000	208	21	19.91	4.39	-1.52	0.01
2000	208	22	20.06	5.25	-1.61	0
2000	208	23	24.41	3.53	-1.66	0.09
2000	209	0	20.5	6.07	-1.72	0.36
2000	209	1	26.18	7.19	-1.74	0.04
2000	209	2	25.2	6.23	-1.77	0.02

2000	209	3	27.18	4.91	-1.64	0.05
2000	209	4	22.98	4.66	-1.6	0.07
2000	209	5	28.7	5.62	-1.71	0.09
2000	209	6	22.77	5.22	-1.79	0.04
2000	209	7	21.04	5.24	-1.89	0.05
2000	209	8	25.38	5.87	-1.94	0
2000	209	9	30.04	5.55	-1.99	0
2000	209	10	26.72	4.32	-1.93	0.01
2000	209	11	36.29	3.72	-1.83	0
2000	209	12	33.91	4.26	-2	0
2000	209	13	30.2	5.15	-2.03	0
2000	209	14	30.46	4.69	-2.07	0
2000	209	15	37.89	3.89	-1.97	0
2000	209	16	62.4	2.27	-1.94	0
2000	209	17	71.83	1.91	-1.88	0
2000	209	18	88.64	1.67	-1.54	0.01
2000	209	19	56.31	2.64	-1.6	0.01
2000	209	20	44.16	2.95	-1.55	0
2000	209	21	34.02	2.84	-1.68	0
2000	209	22	43.47	3.86	-1.69	0
2000	209	23	30.27	4	-1.68	0
2000	210	0	30.34	4.03	-1.68	0
2000	210	1	30.08	3.58	-1.64	0
2000	210	2	38.71	2.8	-1.44	0
2000	210	3	24.65	3.01	-1.5	0
2000	210	4	51.17	2.27	-1.29	0
2000	210	5	36.51	2.54	-1.51	0
2000	210	6	16.14	3.5	-2.12	0
2000	210	7	11.94	3.54	-2.29	0
2000	210	8	32.01	3.34	-2.4	0
2000	210	9	25.73	3.13	-2.43	0
2000	210	10	29.52	4.05	-2.51	0
2000	210	11	26.9	2.79	-2.36	0
2000	210	12	16.3	2.9	-2.49	0
2000	210	13	29.3	3.27	-2.47	0
2000	210	14	177.66	3.43	-2.77	0
2000	210	15	156.12	3.55	-3.22	0
2000	210	16	171.79	4.49	-2.82	0
2000	210	17	144.65	3.49	-2.48	0
2000	210	18	172.04	3.28	-2.05	0
2000	210	19	136.4	2.07	-1.68	0
2000	210	20	165.87	1.78	-1.46	0
2000	210	21	135.51	1.55	-1.01	0
2000	210	22	133.94	1.55	-0.32	0
2000	210	23	128.95	1.53	0.07	0
2000	211	0	144.63	1.3	-0.17	0
2000	211	1	167.94	1.9	-0.64	0
2000	211	2	186.62	4.18	-1.56	0
2000	211	3	185.71	2.97	-1.43	0

2000	211	4	196.79	2.11	-1.4	0
2000	211	5	30.4	1.6	-1.38	0
2000	211	6	202.64	1.66	-1.74	0
2000	211	7	186.11	1.9	-1.76	0
2000	211	8	187.23	2.98	-2.33	0
2000	211	9	174.44	3.43	-2.44	0
2000	211	10	167.97	3.31	-2.75	0
2000	211	11	191.16	3.53	-2.51	0
2000	211	12	166.73	3	-2.45	0
2000	211	13	157.6	2.73	-2.34	0
2000	211	14	164.96	2.14	-1.83	0
2000	211	15	169.33	4.53	-2.85	0
2000	211	16	170.54	3.61	-2.52	0
2000	211	17	173.52	4.29	-2.32	0
2000	211	18	171.42	3.6	-1.67	0
2000	211	19	167.75	2.63	-1.51	0
2000	211	20	175.76	3.95	-1.5	0
2000	211	21	177.78	4.02	-1.52	0
2000	211	22	180.83	3.19	-1.55	0
2000	211	23	164.93	2.01	-1.48	0
2000	212	0	122.18	1.44	-0.92	0
2000	212	1	129.76	1.6	-0.49	0
2000	212	2	80.07	1.73	-0.82	0
2000	212	3	139.82	1.49	-0.57	0
2000	212	4	112.75	1.19	-0.35	0
2000	212	5	84.95	1.49	-0.46	0
2000	212	6	52.18	2.1	-1.02	0
2000	212	7	77.04	1.49	-1.43	0
2000	212	8	90.19	1.53	-1.51	0
2000	212	9	81.15	1.81	-1.38	0.04
2000	212	10	119.69	1.47	-1.61	0.17
2000	212	11	143.02	1.37	-2	0.03
2000	212	12	5.57	2.09	-1.94	0.01
2000	212	13	7.01	2.99	-2.06	0
2000	212	14	35.27	3.35	-2.09	0
2000	212	15	60.19	3.28	-2.13	0
2000	212	16	70.32	2.76	-2.07	0
2000	212	17	95.71	1.69	-1.92	0
2000	212	18	63.6	1.42	-1.87	0
2000	212	19	139.76	1.12	-1.61	0
2000	212	20	142.32	1.16	-1.49	0
2000	212	21	63.07	1.48	-1.52	0
2000	212	22	129.33	1.26	-1.17	0
2000	212	23	94.94	1.4	-1.46	0
2000	213	0	122.18	1.66	-1.58	0
2000	213	1	101.96	1.38	-1.49	0
2000	213	2	26.52	1.77	-1.64	0
2000	213	3	39.95	2.43	-1.73	0
2000	213	4	49.2	2.12	-1.55	0

2000	213	5	21.6	2.12	-1.72	0
2000	213	6	22.28	2.53	-1.91	0
2000	213	7	42.97	2.67	-2.13	0
2000	213	8	29.9	4.35	-2.48	0
2000	213	9	38.32	4.37	-2.66	0
2000	213	10	53.07	4.14	-2.36	0
2000	213	11	76.73	3.36	-2.18	0
2000	213	12	131.9	2.56	-2.07	0
2000	213	13	105.94	2.78	-1.98	0
2000	213	14	76.62	3.55	-1.92	0
2000	213	15	74.74	3.49	-2.06	0
2000	213	16	91.88	3.21	-2.02	0
2000	213	17	86.18	3.69	-2.04	0
2000	213	18	99.97	2.92	-1.92	0
2000	213	19	83.34	2.91	-2	0
2000	213	20	80.37	2.98	-2.07	0
2000	213	21	142.81	2.14	-2.03	0
2000	213	22	100.25	2.65	-1.92	0
2000	213	23	82.69	2.02	-1.87	0
2000	214	0	49.23	2.39	-1.7	0
2000	214	1	45.53	3.02	-1.93	0
2000	214	2	34.61	3.54	-1.97	0
2000	214	3	30.62	4.66	-1.92	0
2000	214	4	21.73	3.71	-1.7	0.03
2000	214	5	26.22	2.64	-1.63	0
2000	214	6	349.82	2.24	-1.77	0
2000	214	7	32.51	2.64	-1.74	0.01
2000	214	8	29.43	3.14	-2.05	0
2000	214	9	25.68	3.54	-2.26	0
2000	214	10	57.2	1.77	-2.33	0
2000	214	11	202.16	3	-2.38	0
2000	214	12	174.51	2.09	-2.41	0.01
2000	214	13	194.73	3.12	-2.36	0
2000	214	14	184.94	2.54	-2.45	0
2000	214	15	185.2	3.82	-2.49	0
2000	214	16	170.34	3	-2.45	0
2000	214	17	190.53	2.83	-2.17	0
2000	214	18	194.9	1.37	-1.65	0
2000	214	19	78.73	1.22	-1.14	0
2000	214	20	103.69	1.05	-0.97	0
2000	214	21	102.08	1.22	-1.31	0
2000	214	22	134.5	1.37	-1.07	0.01
2000	214	23	183.25	2.82	-1.47	0
2000	215	0	208.12	2.28	-1.6	0
2000	215	1	164.11	1.8	-1.48	0
2000	215	2	109.42	1.44	-1.04	0
2000	215	3	181.19	1.64	-1.25	0
2000	215	4	189.91	1.58	-1.21	0
2000	215	5	194.9	2.48	-1.11	0

2000	215	6	198.78	2.62	-1.27	0
2000	215	7	196.27	1.95	-1.65	0
2000	215	8	175.22	2.5	-2.4	0
2000	215	9	173.15	3.47	-2.52	0
2000	215	10	172.97	4.4	-2.59	0
2000	215	11	178.09	4.51	-2.81	0
2000	215	12	178.86	4.97	-2.96	0
2000	215	13	177.53	5.97	-3.1	0
2000	215	14	174.69	5.12	-2.78	0
2000	215	15	189.51	8.28	-2.63	0
2000	215	16	192.91	8.09	-2.19	0
2000	215	17	192.01	6.44	-1.76	0
2000	215	18	192.24	3.57	-0.78	0
2000	215	19	225.79	2.3	0.7	0
2000	215	20	162.72	1.07	1.79	0
2000	215	21	178.65	2.58	1.88	0
2000	215	22	173.05	2.73	2.19	0
2000	215	23	181.02	3.31	0.18	0
2000	216	0	177.08	3.93	-0.59	0
2000	216	1	179.82	4.41	-0.89	0
2000	216	2	178.61	3.55	-0.36	0.01
2000	216	3	181.95	3.95	-0.56	0.08
2000	216	4	175.62	2.04	-0.25	0
2000	216	5	198	4	-0.72	0
2000	216	6	202.59	3.75	-0.81	0
2000	216	7	191.75	3.86	-1.54	0
2000	216	8	187.06	5.1	-2.07	0
2000	216	9	187.61	5.24	-2.33	0
2000	216	10	181.58	5.04	-2.66	0
2000	216	11	167.11	3.41	-2.5	0
2000	216	12	177.28	4.79	-2.34	0
2000	216	13	178.07	6.58	-2.58	0
2000	216	14	184.32	8.16	-2.35	0
2000	216	15	185.11	6.37	-1.59	0
2000	216	16	189.31	6.2	-1.59	0
2000	216	17	194.45	4.7	-1.29	0
2000	216	18	61.04	3.53	-0.51	0.27
2000	216	19	67.09	1.97	-1.02	0.06
2000	216	20	168.29	2.5	-1.02	0
2000	216	21	208.12	3.27	-1.15	0
2000	216	22	188.48	2.65	-1.22	0
2000	216	23	188.9	3.73	-1.18	0
2000	217	0	187.02	3.65	-1.41	0
2000	217	1	193.83	2.05	-1.22	0
2000	217	2	169.53	1.1	-0.87	0
2000	217	3	280.37	2.14	-0.77	0
2000	217	4	24.79	3.58	-1.31	0
2000	217	5	12.34	5.82	-1.78	0
2000	217	6	5.41	6.39	-1.86	0

2000	217	7	12.14	5.34	-2.15	0
2000	217	8	3.12	4.82	-2.52	0
2000	217	9	5.06	4.8	-2.74	0
2000	217	10	21.35	5.85	-2.74	0
2000	217	11	12.99	6.41	-3.13	0
2000	217	12	13.86	6.13	-2.96	0
2000	217	13	29.19	6.11	-2.98	0
2000	217	14	36	4.55	-2.81	0
2000	217	15	357.44	2.38	-2.62	0
2000	217	16	317.06	2.18	-2.36	0
2000	217	17	228.97	2.59	-1.76	0
2000	217	18	306.4	1.68	-0.26	0
2000	217	19	325.63	2.3	-0.37	0
2000	217	20	18.3	4.53	-1.56	0
2000	217	21	20.11	3.99	-0.9	0
2000	217	22	27.21	5.41	0.5	0
2000	217	23	26.92	5.05	0.52	0
2000	218	0	10.9	6.53	-1.7	0
2000	218	1	9.7	6.54	-1.86	0
2000	218	2	26.1	5.52	-1.71	0
2000	218	3	25.78	5.5	-1.62	0
2000	218	4	19.12	4.86	-1.44	0
2000	218	5	9.45	4.14	-1.58	0
2000	218	6	12.53	5.09	-2.09	0
2000	218	7	5.41	6.89	-2.11	0
2000	218	8	6.86	8.11	-2.59	0
2000	218	9	4.26	7.65	-2.97	0
2000	218	10	0.84	6.65	-3.11	0
2000	218	11	356.66	5.49	-3.3	0
2000	218	12	1.75	5.23	-3.13	0
2000	218	13	357.45	4.98	-3.19	0
2000	218	14	5.09	5.06	-2.91	0
2000	218	15	18.7	3.81	-2.84	0
2000	218	16	339.79	2.41	-1.94	0
2000	218	17	284.43	2.07	-2.11	0
2000	218	18	256.97	1.75	0.41	0
2000	218	19	6.24	1.85	1.99	0
2000	218	20	22.37	2.91	2.41	0
2000	218	21	19.53	3.76	3.24	0
2000	218	22	22.13	2.97	3.07	0
2000	218	23	30.44	2.61	4.12	0
2000	219	0	31.68	4.1	4.33	0
2000	219	1	30.1	3.82	3.36	0
2000	219	2	37.58	2.16	1.43	0
2000	219	3	25.54	3.09	2.12	0
2000	219	4	29.81	3.39	3.26	0
2000	219	5	28.71	3.35	3.25	0
2000	219	6	24.84	3.93	0.66	0
2000	219	7	48.9	2.44	-0.84	0

2000	219	8	132.47	2.09	-1.99	0
2000	219	9	189.99	3.28	-2.31	0
2000	219	10	184.87	3.35	-2.45	0
2000	219	11	184.73	5.84	-1.37	0
2000	219	12	188.49	5.48	-1.06	0
2000	219	13	182.68	5.95	-1.78	0
2000	219	14	181.84	8.29	-1.4	0
2000	219	15	173.64	7.72	-1.44	0
2000	219	16	174.94	7.95	-1.48	0
2000	219	17	177.12	7.65	-0.66	0.01
2000	219	18	189.02	6.49	-1.36	0
2000	219	19	191.38	5.07	-1.43	0
2000	219	20	193.9	5.21	-1.6	0
2000	219	21	197.43	3.95	-1.56	0
2000	219	22	186.72	4.87	-1.49	0
2000	219	23	195.59	3.19	-1.19	0.13
2000	220	0	179.95	2.4	-0.92	0
2000	220	1	170.06	3.38	-0.95	0
2000	220	2	179.9	3.46	-1.14	0
2000	220	3	187.34	4.37	-1.22	0
2000	220	4	177.19	3.56	-0.94	0
2000	220	5	174.2	2.47	-0.82	0
2000	220	6	180.39	4.88	-1.3	0
2000	220	7	179.81	5.87	-1.61	0
2000	220	8	186.94	7.58	-2.26	0
2000	220	9	205.13	7.67	-2.37	0
2000	220	10	222.67	6.1	-2.41	0
2000	220	11	233.43	5.54	-2.03	0
2000	220	12	235.49	5.31	-2.59	0
2000	220	13	218.93	6	-2.65	0
2000	220	14	213.94	5.53	-2.1	0
2000	220	15	206.87	6.45	-2.23	0
2000	220	16	226.21	4.86	-2.17	0
2000	220	17	227.29	4.12	-1.8	0
2000	220	18	202.94	3.14	-0.7	0
2000	220	19	195.28	3.59	-0.01	0
2000	220	20	191.22	4.31	-0.08	0
2000	220	21	186.65	3.29	0.69	0
2000	220	22	170.22	2.58	2.01	0
2000	220	23	153.02	2.18	1.8	0
2000	221	0	210.15	1.3	1.32	0
2000	221	1	137.11	1.28	2.17	0
2000	221	2	155.25	2.38	1.15	0
2000	221	3	137.71	1.75	1.84	0
2000	221	4	166.19	2.48	1.96	0
2000	221	5	114.18	1.93	1.79	0
2000	221	6	236.04	3.17	-0.72	0
2000	221	7	259.5	4.34	-2.12	0
2000	221	8	256.27	3.51	-2.99	0

2000	221	9	290.95	3.6	-2.83	0
2000	221	10	349.2	4.39	-2.99	0
2000	221	11	258.17	4.46	-3.36	0
2000	221	12	265.66	4.69	-3.17	0
2000	221	13	252.14	5.6	-3.13	0
2000	221	14	247.53	5.29	-3	0
2000	221	15	251.53	3.98	-3.11	0
2000	221	16	247.79	4.05	-2.73	0
2000	221	17	251.9	3.05	-1.71	0
2000	221	18	230.52	2.26	1.16	0
2000	221	19	227.34	2.97	2.2	0
2000	221	20	260.3	1.87	0.69	0
2000	221	21	224.73	1.58	1.28	0
2000	221	22	236.5	1.64	2.44	0
2000	221	23	4.67	1.77	2.94	0
2000	222	0	359.86	1.47	2.12	0
2000	222	1	39.45	1.87	2.41	0
2000	222	2	13.38	1.49	2.59	0
2000	222	3	32.5	1.85	2.38	0
2000	222	4	20.61	1.39	1.71	0
2000	222	5	183.75	5.48	0.72	0
2000	222	6	188.01	5.89	-0.08	0.02
2000	222	7	168.83	3.08	-0.25	0
2000	222	8	162.89	3.03	-1.59	0
2000	222	9	166.86	3.81	-2.5	0
2000	222	10	174.52	4.91	-3.06	0
2000	222	11	165.7	4.37	-2.7	0
2000	222	12	188.87	2.84	-2.3	0
2000	222	13	202.7	4.68	-2.25	0
2000	222	14	193.93	7.05	-2.23	0
2000	222	15	197.76	5.83	-2.39	0
2000	222	16	201.14	4	-2.2	0
2000	222	17	191.29	4.42	-1.57	0
2000	222	18	190.9	4.46	-0.87	0
2000	222	19	187.43	3.89	-0.2	0
2000	222	20	165.29	2.29	0.56	0
2000	222	21	193.15	1.78	0.43	0
2000	222	22	217.06	1.94	0.69	0
2000	222	23	184.39	1.98	1.1	0
2000	223	0	296.29	3.84	-0.69	0.07
2000	223	1	21.68	4.64	-1.15	0
2000	223	2	10.21	6.54	-1.15	0
2000	223	3	54.66	5.97	-1.1	0
2000	223	4	63.02	2.54	-1.17	0
2000	223	5	41.94	2.26	-1.34	0
2000	223	6	0.66	2.6	-1.97	0
2000	223	7	354.15	3.35	-2.58	0
2000	223	8	2.23	3.88	-2.66	0
2000	223	9	3.2	4.07	-2.78	0

2000	223	10	2.47	4.05	-2.93	0
2000	223	11	8.11	3.26	-2.57	0
2000	223	12	10.2	3.47	-2.65	0
2000	223	13	233.47	3.46	-2.86	0
2000	223	14	293.23	3.42	-2.91	0
2000	223	15	280.31	3.43	-3.09	0
2000	223	16	248.83	3.02	-3.11	0
2000	223	17	211.79	3.06	-2.36	0
2000	223	18	234.39	1.62	-0.79	0
2000	223	19	284.31	1.62	1.17	0
2000	223	20	25.43	2.67	2.02	0
2000	223	21	22.17	5.21	2.17	0
2000	223	22	28.24	3.15	1.47	0
2000	223	23	27.34	5.78	2.23	0
2000	224	0	29.86	4.97	2.31	0
2000	224	1	29.79	5.84	2.16	0
2000	224	2	27.54	4.99	1.35	0
2000	224	3	36.52	4.99	1.72	0
2000	224	4	40.23	4.21	1.83	0
2000	224	5	31.47	5.63	0.73	0
2000	224	6	44.11	3.56	-0.33	0
2000	224	7	44.9	2.43	-2	0
2000	224	8	24.45	3.58	-2.42	0
2000	224	9	295.9	2.62	-2.98	0
2000	224	10	234.64	3.8	-2.64	0
2000	224	11	174.65	2.67	-2.26	0
2000	224	12	72.35	6.14	-1.98	0
2000	224	13	19.43	9.58	-1.06	0.03
2000	224	14	21.16	5.41	-0.56	0
2000	224	15	9.4	3.04	-0.51	0.03
2000	224	16	278.87	2.51	-0.19	0.14
2000	224	17	171.13	2.42	-0.65	0.01
2000	224	18	232.88	2.56	-1.35	0
2000	224	19	19.18	2.4	-0.98	0
2000	224	20	11.05	5.04	-1.73	0
2000	224	21	25.97	6.54	-1.67	0
2000	224	22	17.9	5.73	-1.67	0
2000	224	23	13.73	6.22	-1.84	0
2000	225	0	25.6	5.81	-1.81	0
2000	225	1	27.71	5.6	-1.92	0
2000	225	2	30.96	5.39	-1.9	0
2000	225	3	17.11	4.29	-2	0
2000	225	4	23.3	4.99	-1.88	0
2000	225	5	18.51	4.46	-1.92	0
2000	225	6	19	6.68	-1.36	0.53
2000	225	7	19.52	5.92	-1.72	0.04
2000	225	8	25.22	2.51	-1.74	0
2000	225	9	27.66	4.56	-1.94	0
2000	225	10	24.19	5.01	-2.06	0

2000	225	11	27.56	5.34	-1.73	0
2000	225	12	22.05	5.11	-1.73	0
2000	225	13	20.62	5.18	-1.81	0
2000	225	14	14	4.42	-1.97	0
2000	225	15	10.5	3.75	-1.98	0
2000	225	16	16.96	4.19	-1.81	0
2000	225	17	25.09	3.89	-1.63	0
2000	225	18	29.26	4.73	-1.44	0
2000	225	19	25.99	5.08	-1.37	0
2000	225	20	20.95	5.2	-1.77	0
2000	225	21	86.19	2.36	-1.54	0
2000	225	22	29.81	4.15	-1.74	0
2000	225	23	50.53	3.46	-1.56	0
2000	226	0	30.48	3.72	-1.49	0
2000	226	1	30.61	5.2	-1.3	0
2000	226	2	23.75	6.68	-1.84	0
2000	226	3	20.83	7.45	-2.13	0
2000	226	4	19.38	7.37	-2.14	0
2000	226	5	21.73	7.26	-2.05	0
2000	226	6	18.79	7.43	-2.26	0
2000	226	7	19.22	7.23	-2.33	0
2000	226	8	18.18	7.38	-2.42	0
2000	226	9	19.24	7.76	-2.53	0
2000	226	10	16.44	6.17	-2.55	0
2000	226	11	25.95	6.75	-2.45	0
2000	226	12	30.4	8.15	-2.5	0
2000	226	13	27.46	7.7	-2.77	0
2000	226	14	38.1	7.66	-2.15	0
2000	226	15	33.9	7.7	-2.09	0
2000	226	16	55.56	5.56	-1.94	0
2000	226	17	61.86	3.1	-1.67	0
2000	226	18	56.16	3.39	-0.96	0
2000	226	19	26.55	7.12	-1.66	0
2000	226	20	20.21	5.93	-1.74	0
2000	226	21	23.09	4.69	-1.84	0
2000	226	22	21.34	4.45	-1.88	0
2000	226	23	23.61	5.27	-1.96	0
2000	227	0	16.88	5.86	-2.01	0
2000	227	1	10.21	6.99	-1.96	0
2000	227	2	17.39	8.25	-1.98	0
2000	227	3	18.75	7.85	-2.03	0
2000	227	4	16.3	7.74	-2.19	0
2000	227	5	18.55	8.08	-2.15	0
2000	227	6	14.42	7.62	-2.36	0
2000	227	7	16.62	8.96	-2.26	0
2000	227	8	14.96	9.82	-2.45	0
2000	227	9	17.12	9.53	-2.72	0
2000	227	10	15.39	8.36	-2.69	0
2000	227	11	10.34	7.38	-2.27	0

2000	227	12	10.15	7.95	-2.27	0
2000	227	13	34.12	5.74	-1.52	0
2000	227	14	136.9	4.8	-0.33	0.24
2000	227	15	16.03	9.95	-1.73	0.05
2000	227	16	16.45	9.85	-1.54	0
2000	227	17	14.18	10.82	-1.67	0
2000	227	18	21.35	8.18	-1.73	0
2000	227	19	17.98	9.36	-1.9	0
2000	227	20	12.83	8.5	-1.99	0
2000	227	21	11.88	7.33	-2.06	0
2000	227	22	14.44	8.98	-2.12	0
2000	227	23	15.55	6.69	-2.15	0
2000	228	0	13.79	7.4	-2.13	0
2000	228	1	11.13	7.66	-2.2	0
2000	228	2	10.68	6.28	-2.49	0.01
2000	228	3	13.94	6.84	-1.95	0
2000	228	4	25.4	6.31	-1.66	0
2000	228	5	15.79	5.84	-1.71	0
2000	228	6	17.4	5.21	-1.97	0
2000	228	7	3.94	5.76	-2.57	0
2000	228	8	7.21	5.56	-2.82	0
2000	228	9	16.19	6.88	-2.61	0
2000	228	10	1.87	6.12	-3.3	0
2000	228	11	1.98	4.78	-3.2	0
2000	228	12	0.07	4.93	-3.07	0
2000	228	13	3.57	5.57	-3.13	0
2000	228	14	352.58	4.33	-3.06	0
2000	228	15	359.04	4.32	-3.02	0
2000	228	16	5.37	3.86	-2.59	0
2000	228	17	357.51	2.62	-2.15	0
2000	228	18	183.84	1.41	-0.19	0
2000	228	19	226.98	1.36	2.22	0
2000	228	20	41.76	1.93	2.85	0
2000	228	21	17.29	1.91	2.37	0
2000	228	22	23.25	1.69	2.43	0
2000	228	23	15.24	1.14	2.28	0
2000	229	0	17.65	1	1.54	0
2000	229	1	251.31	1.22	1.9	0
2000	229	2	198.04	2.67	1.33	0
2000	229	3	182.51	4.34	0.01	0
2000	229	4	193.2	4.43	-0.78	0.31
2000	229	5	179.1	4.02	-0.5	0.43
2000	229	6	217.47	1.21	-0.84	0
2000	229	7	204.14	1.94	-1.15	0
2000	229	8	182.93	4.13	-1.94	0
2000	229	9	234.36	3.89	-2.05	0
2000	229	10	245.32	4.65	-2.79	0
2000	229	11	273.37	5.94	-3.18	0
2000	229	12	330.12	6	-3.42	0

2000	229	13	295.04	5.61	-3.46	0
2000	229	14	329.8	5.8	-3.01	0
2000	229	15	347.27	6	-2.84	0
2000	229	16	311.37	4.96	-2.79	0
2000	229	17	302.27	4.37	-2.28	0
2000	229	18	310.02	3.57	-1.5	0
2000	229	19	288.03	3.54	-0.99	0
2000	229	20	340.21	4.87	-1.54	0
2000	229	21	347.04	4.03	-1.51	0
2000	229	22	292.64	3.08	-1.09	0
2000	229	23	279.31	3.31	-1.12	0
2000	230	0	289.05	4.8	-1.9	0
2000	230	1	267.42	3.74	-1.95	0
2000	230	2	265.47	4.79	-1.78	0
2000	230	3	298.68	4.58	-1.96	0
2000	230	4	354.61	3.54	-1.73	0
2000	230	5	2.49	4.31	-1.73	0
2000	230	6	266.67	3.94	-2.4	0
2000	230	7	276.18	4.24	-2.9	0
2000	230	8	344.1	5.01	-2.99	0
2000	230	9	337.48	5.24	-3.43	0
2000	230	10	355.32	5.3	-3.52	0
2000	230	11	296.97	4.93	-3.87	0
2000	230	12	309.87	4.34	-4.22	0
2000	230	13	320.69	4.22	-3.99	0
2000	230	14	308.24	3.74	-3.47	0
2000	230	15	271.08	3.8	-3.26	0
2000	230	16	248.12	3.47	-2.71	0
2000	230	17	248.63	2.48	-1.53	0
2000	230	18	232.31	2.77	-0.53	0
2000	230	19	227.82	1.95	0.57	0
2000	230	20	86.96	2.12	-0.68	0
2000	230	21	41.5	2.95	0.65	0
2000	230	22	42.3	2.8	0.47	0
2000	230	23	23.91	5.58	0.79	0
2000	231	0	28.27	5.66	-0.18	0
2000	231	1	33.54	3.95	0.05	0
2000	231	2	36.39	3.6	0.52	0
2000	231	3	29.92	5.86	0.41	0
2000	231	4	28.74	5.47	-0.45	0
2000	231	5	33.11	4.73	-0.9	0
2000	231	6	29	4.69	-1.82	0
2000	231	7	21.44	4.11	-2.18	0
2000	231	8	20.44	3.52	-2.2	0
2000	231	9	45.18	2.06	-2.26	0
2000	231	10	142.63	1.64	-2.42	0
2000	231	11	171.09	2.2	-2.42	0
2000	231	12	204.28	1.42	-2.15	0
2000	231	13	123.98	2.02	-1.88	0

2000	231	14	168.34	2.3	-1.29	0
2000	231	15	22.05	2.41	-2.04	0
2000	231	16	14.41	2.61	-2.07	0
2000	231	17	10.14	3.7	-2.07	0
2000	231	18	8.5	3.74	-2.01	0
2000	231	19	5.51	4.18	-2.08	0
2000	231	20	9.44	3.92	-2.05	0
2000	231	21	11.29	3.83	-1.9	0
2000	231	22	3.3	3.03	-1.52	0
2000	231	23	15.21	3.78	-1.4	0
2000	232	0	35.38	2.27	-0.47	0
2000	232	1	13.3	3.95	-1.02	0
2000	232	2	59.92	2.15	0.28	0
2000	232	3	14.28	4.5	-1.39	0
2000	232	4	31.08	3.65	-0.56	0
2000	232	5	138.01	2.59	1.46	0
2000	232	6	21.07	4.09	-1.27	0
2000	232	7	4.33	5.6	-2.26	0
2000	232	8	359.68	5.47	-2.59	0
2000	232	9	4.51	7.37	-3	0
2000	232	10	0.55	5.34	-3.25	0
2000	232	11	7.78	5.61	-3.31	0
2000	232	12	356.5	4.45	-3.11	0
2000	232	13	5.42	6.02	-3.12	0
2000	232	14	19.44	4.42	-2.62	0
2000	232	15	7.95	4.22	-2.4	0
2000	232	16	359.72	4.12	-2.33	0
2000	232	17	346.05	3.37	-2.35	0
2000	232	18	2.29	3.33	-1.36	0
2000	232	19	14.56	3.58	-0.36	0
2000	232	20	29.14	4.68	1.97	0
2000	232	21	32.31	4.92	2.55	0
2000	232	22	40.1	3.47	0.74	0
2000	232	23	17.88	3.33	-1.2	0
2000	233	0	5.79	5.08	-1.57	0
2000	233	1	337.46	4.95	-1.82	0
2000	233	2	348.48	5.67	-1.72	0
2000	233	3	5.84	5.1	-1.25	0
2000	233	4	12	5.87	-1.72	0
2000	233	5	5.04	4.31	-1.45	0
2000	233	6	9.27	6.01	-1.64	0
2000	233	7	11.89	4.95	-2.33	0
2000	233	8	24.83	5.42	-2.65	0
2000	233	9	8.02	6.98	-3.14	0
2000	233	10	7.38	6.41	-3.3	0
2000	233	11	351.38	5.03	-3.62	0
2000	233	12	9.3	6.27	-3.37	0
2000	233	13	15	5.98	-3.08	0
2000	233	14	11.24	5.91	-3.11	0

2000	233	15	20	6.17	-2.91	0
2000	233	16	22.01	5.88	-2.88	0
2000	233	17	20.93	5.45	-2.36	0
2000	233	18	18.27	5.41	-1.75	0
2000	233	19	27.43	4.98	-1.21	0
2000	233	20	22.87	4.04	0.01	0
2000	233	21	26.81	4.49	1.63	0
2000	233	22	19.97	4.94	2.71	0
2000	233	23	28.91	5.9	2.44	0
2000	234	0	34.36	6.4	3.34	0
2000	234	1	51.06	3.79	3.15	0
2000	234	2	37.14	5.73	1.71	0
2000	234	3	45.78	5.04	0.28	0
2000	234	4	79.64	3.59	0.36	0
2000	234	5	47.58	3.44	0.33	0
2000	234	6	41.75	5.62	0.13	0
2000	234	7	25.19	5.79	-1.97	0
2000	234	8	8.85	5.99	-2.87	0
2000	234	9	5.42	5.99	-3.15	0
2000	234	10	3.63	6.81	-3.33	0
2000	234	11	3.32	5.7	-3.37	0
2000	234	12	2.03	6.85	-3.36	0
2000	234	13	9.74	7.4	-3.17	0
2000	234	14	25.41	5.15	-2.8	0
2000	234	15	15.93	5.15	-2.82	0
2000	234	16	4.73	3.8	-2.57	0
2000	234	17	15.79	3.68	-2.26	0
2000	234	18	357.06	2.08	-0.45	0
2000	234	19	23.41	3.68	2.24	0
2000	234	20	13.26	4.32	3.25	0
2000	234	21	18.16	3.93	3.92	0
2000	234	22	29.52	3.53	4.94	0
2000	234	23	26.82	4.72	4.43	0
2000	235	0	23.48	4.08	4.25	0
2000	235	1	30.92	4.65	4.42	0
2000	235	2	32.75	3.97	3.14	0
2000	235	3	35.44	4.2	2.32	0
2000	235	4	40.37	3.36	1.43	0
2000	235	5	49.56	3.25	1.27	0
2000	235	6	37.9	3.81	0.33	0
2000	235	7	39.49	2.35	-1.68	0
2000	235	8	8.66	1.76	-1.97	0
2000	235	9	304.17	2.57	-2.49	0
2000	235	10	191.55	3.7	-2.7	0
2000	235	11	189.57	4	-2.99	0
2000	235	12	179.57	3.56	-3.35	0
2000	235	13	162.85	3.85	-3.62	0
2000	235	14	175.34	4.56	-3.11	0
2000	235	15	180.81	4.26	-2.73	0

2000	235	16	197.16	4.72	-2.58	0
2000	235	17	193.3	3.17	-1.37	0
2000	235	18	206.26	2.36	0.6	0
2000	235	19	177.6	2.17	1.83	0
2000	235	20	189.88	3.06	1.3	0
2000	235	21	194.3	3.79	-0.24	0
2000	235	22	192.1	2.61	0.27	0
2000	235	23	209.58	1.81	0.66	0
2000	236	0	216.26	2.58	0.21	0
2000	236	1	228.83	2.01	0.55	0
2000	236	2	295.51	1.69	0.65	0
2000	236	3	241.05	1.82	-0.04	0
2000	236	4	225.2	2.17	-0.15	0
2000	236	5	219.48	2.67	-0.11	0
2000	236	6	207.31	3.46	-0.98	0
2000	236	7	196.77	4.27	-2.06	0
2000	236	8	179.47	5.92	-2.62	0
2000	236	9	176.42	6.05	-2.48	0
2000	236	10	181.37	8.69	-2.25	0
2000	236	11	179.43	9.79	-1.9	0
2000	236	12	183.5	9.37	-1.14	0
2000	236	13	183.02	7.53	-0.34	0.02
2000	236	14	186.95	6.36	-0.88	0.01
2000	236	15	182.48	7.39	-1.26	0.07
2000	236	16	186.26	7.72	-1.09	0.02
2000	236	17	189.93	6.75	-1.22	0
2000	236	18	188.86	5.44	-1.29	0.01
2000	236	19	169.04	4.22	-0.11	0
2000	236	20	160.58	2.29	0.67	0
2000	236	21	193.46	2.08	0.11	0
2000	236	22	119.82	1.26	-0.39	0
2000	236	23	114.59	1.16	-0.94	0
2000	237	0	189.07	2.18	-0.56	0
2000	237	1	187.54	2.19	-0.18	0
2000	237	2	118.56	1.59	0.7	0
2000	237	3	161.33	1.47	0.31	0
2000	237	4	202.83	1.63	0.52	0
2000	237	5	234.11	1.25	-0.61	0
2000	237	6	36.85	1.64	-0.62	0
2000	237	7	56.72	3.09	-0.5	0
2000	237	8	23.59	5.83	-1.82	0
2000	237	9	257.54	3.52	-2.18	0
2000	237	10	183.28	4.08	-2.65	0
2000	237	11	189.78	3.13	-2.77	0
2000	237	12	198.72	3.78	-2.32	0
2000	237	13	248.5	2.73	-2.75	0
2000	237	14	347.07	3.22	-2.27	0
2000	237	15	358.31	3.53	-2.35	0
2000	237	16	356.67	4.27	-2.08	0

2000	237	17	349.09	2.41	-1.31	0
2000	237	18	326.94	2.96	0.56	0
2000	237	19	13.79	3.14	-1.17	0
2000	237	20	42.95	2.06	0.46	0
2000	237	21	27.6	3.51	0.86	0
2000	237	22	27	4.46	0.94	0
2000	237	23	35.63	5.33	0.89	0
2000	238	0	38.15	6.01	1.92	0
2000	238	1	38.16	5.77	2.31	0
2000	238	2	46.88	4.52	2	0
2000	238	3	29.84	5.03	1.1	0
2000	238	4	27.45	4.88	-0.31	0
2000	238	5	22.19	5.76	-0.89	0
2000	238	6	19.87	6.89	-1.7	0
2000	238	7	14.74	9.12	-2.34	0
2000	238	8	9.27	7.62	-2.91	0
2000	238	9	0.93	6.3	-3.05	0
2000	238	10	358.61	5.37	-3.11	0
2000	238	11	358.47	4.87	-3.11	0
2000	238	12	0.89	4.51	-3.11	0
2000	238	13	357.4	4.5	-3.24	0
2000	238	14	349.7	3.92	-3.02	0
2000	238	15	335.6	3.07	-2.86	0
2000	238	16	339.69	3.08	-2.66	0
2000	238	17	358.76	2.08	-1.51	0
2000	238	18	8.84	1.95	1.84	0
2000	238	19	20.41	3.77	4.28	0
2000	238	20	20.95	2.62	5.45	0
2000	238	21	23.15	3.68	3.31	0
2000	238	22	58.23	2.11	3.53	0
2000	238	23	26.91	3.21	4.41	0
2000	239	0	20.75	3.86	3.52	0
2000	239	1	25.52	4.35	4	0
2000	239	2	25.85	4.42	4.5	0
2000	239	3	29.15	4.87	5.03	0
2000	239	4	37.58	3.66	3.32	0
2000	239	5	32.75	5.43	3.08	0
2000	239	6	35.41	3.99	1.46	0
2000	239	7	34.08	2.93	-0.74	0
2000	239	8	12.17	1.98	-2.02	0
2000	239	9	4.42	2.58	-1.79	0
2000	239	10	304.66	2.96	-2.49	0
2000	239	11	189.3	3.27	-2.65	0
2000	239	12	206.53	3.18	-2.73	0
2000	239	13	196.58	3.78	-3.26	0
2000	239	14	234.92	3.31	-3.03	0
2000	239	15	229.76	2.82	-2.69	0
2000	239	16	174.4	3.15	-2.45	0
2000	239	17	178.05	2.63	-1.01	0

2000	239	18	208.07	1.47	1.4	0
2000	239	19	338.7	1.49	2.88	0
2000	239	20	2.2	1.98	1.62	0
2000	239	21	353.43	1.86	2.51	0
2000	239	22	7.12	1.81	3.15	0
2000	239	23	0.52	1.51	3.3	0
2000	240	0	357.48	1.51	2.63	0
2000	240	1	9.5	1.37	2.37	0
2000	240	2	3	1.7	1.6	0
2000	240	3	37.08	1.2	1.66	0
2000	240	4	18.05	1.57	1.2	0
2000	240	5	42.25	1.34	1.16	0
2000	240	6	42.02	1.95	0.45	0
2000	240	7	161.77	1.69	-1.54	0
2000	240	8	181.38	2.63	-2.63	0
2000	240	9	183.57	3.49	-2.65	0
2000	240	10	187.46	4.11	-2.75	0
2000	240	11	195.26	3.42	-2.82	0
2000	240	12	168.41	3.91	-3	0
2000	240	13	166.37	3.67	-3.18	0
2000	240	14	159.21	3.13	-2.69	0
2000	240	15	173	3.19	-2.77	0
2000	240	16	141.95	1.59	-1.74	0
2000	240	17	231.98	1.33	-1.13	0
2000	240	18	196.41	1.5	-0.3	0
2000	240	19	160.65	1.47	-0.44	0
2000	240	20	174.51	2.32	-0.61	0
2000	240	21	100.68	1.58	-0.58	0
2000	240	22	19.55	2.12	0.01	0
2000	240	23	29.53	2.88	0	0
2000	241	0	19.39	3.65	-0.24	0
2000	241	1	28.59	4.46	0.21	0
2000	241	2	33.82	4.62	-0.13	0
2000	241	3	33.06	4.63	-0.73	0
2000	241	4	37.68	4.64	-1.26	0
2000	241	5	26.26	4.17	-1.89	0
2000	241	6	30.32	4.15	-2.15	0
2000	241	7	27.84	4.84	-2.39	0
2000	241	8	25.4	6.6	-2.58	0
2000	241	9	40.92	4.24	-2.34	0
2000	241	10	27.79	3.2	-2.27	0
2000	241	11	26.2	3.88	-2.27	0
2000	241	12	32.9	4.47	-2.62	0
2000	241	13	86.9	2.84	-2.56	0
2000	241	14	187.31	3.05	-1.62	0.06
2000	241	15	181.84	2.84	-1.37	0
2000	241	16	165.33	2	-1.86	0
2000	241	17	217.31	1.69	-1.01	0
2000	241	18	24.59	1.22	-0.14	0

2000	241	19	81.62	1.99	-1.42	0
2000	241	20	112.21	1.68	-1.7	0
2000	241	21	135.89	1.98	-1.5	0
2000	241	22	132.22	1.91	-1.53	0
2000	241	23	157.68	1.86	-1.65	0
2000	242	0	137.27	1.72	-1.5	0
2000	242	1	77.23	2.14	-1.64	0
2000	242	2	60.67	2.88	-1.99	0
2000	242	3	79.02	2.19	-2.03	0
2000	242	4	73.9	2.34	-1.88	0
2000	242	5	28.43	4.22	-2.09	0
2000	242	6	33.77	3.74	-2.25	0
2000	242	7	28.39	4.44	-2.39	0
2000	242	8	61.41	4.04	-2.51	0
2000	242	9	101.77	3.42	-2.91	0
2000	242	10	95	4.53	-3.07	0
2000	242	11	92.26	4.38	-3.15	0
2000	242	12	70.46	5.22	-3.01	0
2000	242	13	101.26	4.75	-3.65	0
2000	242	14	75.57	5	-3.17	0
2000	242	15	82.01	4.17	-2.86	0
2000	242	16	102.98	3.73	-2.29	0
2000	242	17	114.77	2.24	-1.43	0
2000	242	18	66.5	3.06	-1.49	0
2000	242	19	55.72	2.76	-1.58	0
2000	242	20	34.98	2.41	-1.48	0
2000	242	21	37.88	2.04	-1.39	0
2000	242	22	20.52	3.18	-1.5	0
2000	242	23	20.07	3.57	-1.98	0
2000	243	0	21.53	4.45	-1.93	0
2000	243	1	31.62	4.17	-1.82	0
2000	243	2	24.38	5.69	-2.07	0
2000	243	3	26.78	4.57	-2.04	0
2000	243	4	21.47	4.63	-2.13	0
2000	243	5	28.55	4.29	-2.15	0
2000	243	6	17.48	4.1	-2.21	0
2000	243	7	17.04	4.01	-2.34	0
2000	243	8	36.73	3.19	-2.46	0
2000	243	9	2.11	2.74	-2.69	0
2000	243	10	0.58	3.56	-2.6	0
2000	243	11	18.21	3.24	-2.43	0
2000	243	12	351.17	4.03	-2.15	0
2000	243	13	358.89	3.28	-2.78	0
2000	243	14	207.09	4.21	-2.88	0
2000	243	15	187.9	4.69	-2.8	0
2000	243	16	169.34	3.28	-2.77	0
2000	243	17	177.85	2.36	-1.87	0
2000	243	18	177.34	3.37	-1.5	0
2000	243	19	170.4	1.6	-1	0

2000	243	20	165.61	1.36	-1.06	0
2000	243	21	79.77	2.02	-0.86	0
2000	243	22	104.84	1.73	-0.6	0
2000	243	23	60.91	2.08	-0.94	0
2000	244	0	30.78	1.92	-0.69	0
2000	244	1	43.6	2.26	-0.88	0
2000	244	2	29.82	3.71	-1.16	0
2000	244	3	22.99	4.12	-0.94	0
2000	244	4	15.35	4.2	-1.2	0
2000	244	5	30.77	3.21	-1.56	0
2000	244	6	48.21	2.17	-2.05	0
2000	244	7	104.68	1.62	-2.29	0
2000	244	8	217.37	1.8	-2.09	0
2000	244	9	300.78	2.56	-2.43	0
2000	244	10	358.2	2.8	-2.25	0
2000	244	11	182.93	4.39	-3.07	0
2000	244	12	174.83	4.5	-3.3	0
2000	244	13	192.43	4.5	-2.95	0
2000	244	14	188.93	5.27	-3.06	0
2000	244	15	182.46	6.08	-3.16	0
2000	244	16	173.26	5.85	-2.93	0
2000	244	17	175.77	3.98	-2.13	0
2000	244	18	169.46	3.09	-1.39	0
2000	244	19	171.88	2.42	-1.27	0
2000	244	20	168.65	3.57	-1.48	0
2000	244	21	173.05	2.45	-1.13	0
2000	244	22	139.18	1.26	-0.4	0
2000	244	23	142.08	1.27	0.02	0
2000	245	0	166.03	1.39	-0.57	0
2000	245	1	116.36	1.83	-0.83	0
2000	245	2	127.16	1.68	-0.92	0
2000	245	3	65.88	1.55	-1.21	0
2000	245	4	49.16	2.58	-1.01	0
2000	245	5	27.13	3.46	-1.24	0
2000	245	6	199.47	1.97	-1.5	0
2000	245	7	182.8	3.69	-2.15	0
2000	245	8	182.02	4.22	-2.6	0
2000	245	9	168.94	3.06	-2.54	0
2000	245	10	158.13	2.98	-2.73	0
2000	245	11	133.23	2.77	-2.56	0
2000	245	12	178.14	3	-2.07	0.08
2000	245	13	170.23	2.48	-1.75	0.02
2000	245	14	160.52	4.23	-1.8	0
2000	245	15	166.11	4.36	-1.72	0
2000	245	16	169.34	4.37	-1.01	0
2000	245	17	177.03	3.9	-1.04	0
2000	245	18	172.03	2.17	-0.69	0
2000	245	19	132.03	1.52	-0.07	0
2000	245	20	30.66	1.67	-0.64	0

2000	245	21	35.87	1.31	-0.64	0
2000	245	22	15.39	2.23	-0.74	0
2000	245	23	85.65	1.46	-0.46	0
2000	246	0	161.54	1.3	-0.35	0
2000	246	1	190.86	3.47	-0.8	0
2000	246	2	193.11	2.51	-0.81	0
2000	246	3	218.88	1.36	-0.96	0
2000	246	4	74.8	1.32	-1.25	0
2000	246	5	170.14	1.3	-0.95	0
2000	246	6	183.42	1.76	-1.13	0
2000	246	7	177.58	1.19	-1.67	0
2000	246	8	179.45	2.8	-2.32	0
2000	246	9	183.01	2.59	-2.28	0
2000	246	10	205.52	2.83	-2.22	0
2000	246	11	186.59	4.5	-2.15	0.01
2000	246	12	203.87	3.23	-1.71	0
2000	246	13	171.64	3.9	-2.89	0
2000	246	14	171.38	2.84	-2.38	0
2000	246	15	164.25	3.47	-2.74	0
2000	246	16	110.05	2.31	-1.69	0
2000	246	17	83.9	2.25	-1.74	0
2000	246	18	140.26	5.92	-2	0
2000	246	19	110.3	3.94	1.31	0
2000	246	20	173.43	2.44	1.7	0
2000	246	21	22.58	6.07	0.16	0
2000	246	22	39.52	4.1	-0.52	0
2000	246	23	183.87	2	-0.18	0
2000	247	0	184.75	1.37	0.77	0
2000	247	1	43.54	3.3	-0.06	0
2000	247	2	36.17	4.6	-0.29	0
2000	247	3	26.06	3.59	-0.42	0
2000	247	4	27.67	4.66	-0.83	0
2000	247	5	28.46	4.03	-1.38	0
2000	247	6	20.32	3.76	-1.27	0
2000	247	7	29.52	5.26	-0.9	0
2000	247	8	25.36	5.36	-1.29	0
2000	247	9	12.91	4.49	-2.33	0
2000	247	10	17.24	5.12	-2.58	0
2000	247	11	3.4	5.09	-3.05	0
2000	247	12	5.96	5.47	-2.95	0
2000	247	13	16.65	4.41	-2.7	0
2000	247	14	61.46	3.14	-2.54	0
2000	247	15	180.78	4.86	-2.66	0
2000	247	16	174.01	4.49	-2.08	0
2000	247	17	176.38	3.18	-1.56	0
2000	247	18	178.73	2.07	-0.85	0
2000	247	19	189.51	2.78	-1.14	0
2000	247	20	202.7	2.51	-1.2	0
2000	247	21	200.63	2.14	-1.29	0

2000	247	22	199.03	2.75	-1.21	0
2000	247	23	203.47	2.66	-0.91	0
2000	248	0	180.44	2.81	-0.71	0
2000	248	1	187.75	4.26	-1.48	0
2000	248	2	191.31	1.44	-1.17	0
2000	248	3	204.81	1.29	-0.77	0
2000	248	4	240.57	1.24	-1.29	0
2000	248	5	176	0.99	-1.01	0
2000	248	6	73.36	1.52	-0.47	0
2000	248	7	184	2.04	-1.76	0
2000	248	8	22.57	3.75	-2.24	0
2000	248	9	14.52	6.77	-2.97	0
2000	248	10	5.34	6.12	-2.83	0
2000	248	11	4.41	5.09	-2.9	0
2000	248	12	3.6	5.27	-3.1	0
2000	248	13	4.93	6.62	-2.86	0
2000	248	14	8.8	9.25	-2.71	0
2000	248	15	11.01	10.76	-2.6	0
2000	248	16	11.09	10.63	-2.77	0
2000	248	17	14.04	11.23	-2.6	0
2000	248	18	12.33	11.98	-2.4	0
2000	248	19	14.08	13.24	-2.4	0
2000	248	20	16.18	13.34	-2.36	0
2000	248	21	14.95	11.69	-2.24	0
2000	248	22	19.68	9.67	-2.16	0
2000	248	23	17.99	9.12	-2.17	0
2000	249	0	20.99	10.12	-2.05	0
2000	249	1	19.03	11.2	-2.16	0
2000	249	2	15.85	11.39	-2.22	0
2000	249	3	18.44	11.21	-2.12	0
2000	249	4	20.75	11.25	-1.99	0
2000	249	5	22.47	10.18	-2	0
2000	249	6	20.93	9.38	-2.16	0
2000	249	7	12.75	8.97	-2.89	0
2000	249	8	14.79	8.13	-3.27	0
2000	249	9	11.95	7.63	-3.64	0
2000	249	10	10.87	7.35	-3.6	0
2000	249	11	6.96	6.92	-3.77	0
2000	249	12	2.43	6.77	-3.79	0
2000	249	13	355.7	6.72	-3.64	0
2000	249	14	358.68	6.91	-3.51	0
2000	249	15	1.93	6.68	-3.36	0
2000	249	16	1.83	6.58	-2.98	0
2000	249	17	9.86	7.32	-2.57	0
2000	249	18	20.66	6.54	-1.88	0
2000	249	19	24.14	6.52	-1.43	0
2000	249	20	26.89	5.7	-0.77	0
2000	249	21	26.43	4.37	-0.05	0
2000	249	22	26.88	5.26	0.8	0

2000	249	23	37.8	5.15	1.78	0
2000	250	0	24.46	5.91	0.97	0
2000	250	1	22.39	5.81	-0.17	0
2000	250	2	18.44	6.83	-1.56	0
2000	250	3	23.79	6.66	-1.47	0
2000	250	4	29.5	6.82	-1.6	0
2000	250	5	24.77	7.59	-1.88	0
2000	250	6	28.89	7.59	-2	0
2000	250	7	25.92	8.15	-2.41	0
2000	250	8	26.59	5.5	-2.57	0
2000	250	9	30.89	3.22	-2.61	0
2000	250	10	38.81	4.22	-2.87	0
2000	250	11	31.92	4.68	-3.06	0
2000	250	12	5.39	4.91	-3.33	0
2000	250	13	51.74	4.19	-3.15	0
2000	250	14	240.3	3.54	-3.26	0
2000	250	15	250.68	3.11	-2.66	0
2000	250	16	127.03	2.57	-2.67	0
2000	250	17	151.01	2.22	-1.96	0
2000	250	18	224.24	1.54	0.48	0
2000	250	19	276.75	1.28	0.19	0
2000	250	20	354.44	2.31	0.57	0
2000	250	21	28.43	3.17	2.16	0
2000	250	22	31.26	3.96	2.69	0
2000	250	23	35.94	2.69	1.99	0
2000	251	0	35.93	2.67	2.48	0
2000	251	1	29.66	3.72	3.39	0
2000	251	2	31.39	4.01	3.27	0
2000	251	3	38.4	4.1	3.72	0
2000	251	4	25.52	2.76	2.5	0
2000	251	5	26.72	2.09	2.13	0
2000	251	6	26.78	3.24	1.59	0
2000	251	7	32.53	3.22	-0.68	0
2000	251	8	127.88	1.88	-2.29	0
2000	251	9	173.27	3.23	-2.7	0
2000	251	10	160.82	3.93	-2.84	0
2000	251	11	173	4.76	-3.54	0
2000	251	12	166	4.76	-3.76	0
2000	251	13	166.35	5.21	-3.97	0
2000	251	14	190.07	6.76	-3.45	0
2000	251	15	186.81	5.88	-3	0
2000	251	16	186.22	6.12	-2.7	0
2000	251	17	191.16	6.79	-1.77	0
2000	251	18	195.79	4.77	-0.82	0
2000	251	19	189.63	2.58	0.28	0
2000	251	20	187.7	3.85	0.39	0
2000	251	21	200.15	4.3	0.11	0
2000	251	22	192.66	4.43	0.35	0
2000	251	23	180.01	4.76	0	0

2000	252	0	186.12	4.07	-0.21	0
2000	252	1	206.79	2.77	-0.23	0
2000	252	2	207.63	2.92	-0.36	0
2000	252	3	198.08	3.77	0.06	0
2000	252	4	193.33	3.33	0.16	0
2000	252	5	175.41	3.57	1.96	0
2000	252	6	194.69	3.53	0.76	0
2000	252	7	183.53	5.09	-1.86	0
2000	252	8	178.94	5.12	-2.77	0
2000	252	9	175.11	5.51	-3.02	0
2000	252	10	173.03	5.29	-3.24	0
2000	252	11	164.98	4.33	-3.72	0
2000	252	12	169.37	5.21	-3.65	0
2000	252	13	182.92	5.17	-3.26	0
2000	252	14	191.87	5.98	-2.85	0
2000	252	15	198.32	5.51	-2.66	0
2000	252	16	193.22	6.42	-2.33	0
2000	252	17	189.44	4.09	-1.55	0
2000	252	18	183.03	5.34	-1	0
2000	252	19	181.72	4.66	-0.62	0
2000	252	20	186.51	1.69	-0.05	0
2000	252	21	47.56	1.48	0.18	0
2000	252	22	59.5	1.58	0.83	0
2000	252	23	175.22	2.07	1.41	0
2000	253	0	160.14	1.88	0.36	0
2000	253	1	139.09	1.75	-0.16	0
2000	253	2	149.8	1.64	0.71	0
2000	253	3	157.32	1.14	0.56	0
2000	253	4	117.31	1.38	0.53	0
2000	253	5	52.61	1.38	0.41	0
2000	253	6	73.84	1.62	0.46	0
2000	253	7	143.33	1.88	-1.46	0
2000	253	8	183.15	2.97	-2.28	0
2000	253	9	187.27	4.08	-2.7	0
2000	253	10	209.57	4.12	-2.32	0
2000	253	11	207.25	2.61	-2.45	0
2000	253	12	9.3	3.16	-2.93	0
2000	253	13	46.88	2.97	-2.9	0
2000	253	14	314.53	2.47	-1.97	0
2000	253	15	95.26	2.94	-1.17	0
2000	253	16	168.59	2.44	-0.99	0
2000	253	17	199.4	2.58	-0.8	0
2000	253	18	138.24	1.44	0.25	0
2000	253	19	356.09	2.12	0.24	0
2000	253	20	30.55	5.43	0.46	0
2000	253	21	40.37	3.99	0.78	0
2000	253	22	32.77	3.18	0.14	0
2000	253	23	33.62	2.8	0.18	0
2000	254	0	30.95	3.56	1.09	0

					2000	254	1	31.52	5.68	1.76	0
					2000	254	2	29.08	6.41	1.56	0
					2000	254	3	27.38	4.71	-0.56	0
					2000	254	4	27.79	3.61	-0.62	0
					2000	254	5	43.2	2.27	-0.68	0
					2000	254	6	34.76	4.83	-1.16	0
					2000	254	7	34.28	3.91	-1.76	0
					2000	254	8	35.56	4.15	-2.45	0
					2000	254	9	25.2	3.6	-2.28	0
					2000	254	10	259.93	3.88	-2.79	0
					2000	254	11	199.19	4.76	-2.99	0
					2000	254	12	190.02	4.91	-3.01	0
					2000	254	13	187.53	5.22	-2.9	0
					2000	254	14	180.08	5.82	-3.03	0
					2000	254	15	176.58	4.42	-3	0
					2000	254	16	176.22	4.4	-2.41	0
					2000	254	17	157.51	2.02	-1.39	0
					2000	254	18	161.46	2.07	-0.4	0
					2000	254	19	104.52	2.22	0.66	0
					2000	254	20	122.27	1.91	1.53	0
					2000	254	21	132.31	1.18	1.75	0
					2000	254	22	176.24	1.6	1.58	0
					2000	254	23	164.93	1.49	0.62	0
					2000	255	0	149.08	1.51	-0.66	0
					2000	255	1	120.33	1.73	-0.48	0
					2000	255	2	120.37	1.53	0.07	0
					2000	255	3	110.78	2.16	0.46	0
					2000	255	4	84.45	2.01	0.29	0
					2000	255	5	102.23	1.34	-0.61	0
					2000	255	6	101.44	1.7	-0.67	0
					2000	255	7	142.69	1.6	-1.78	0
					2000	255	8	230.73	2.44	-2.2	0
					2000	255	9	176.99	4.33	-3	0
					2000	255	10	165.83	5.77	-3.58	0
					2000	255	11	171.19	6.3	-3.77	0
					2000	255	12	168.18	5.51	-3.76	0
					2000	255	13	168.86	6.08	-3.5	0
					2000	255	14	169.2	6.32	-3.24	0
		WD-10	WS-10	DT U/L	2000	255	15	169.25	4.7	-2.52	0
		165.55	4.27	-2.15	2000	255	16	165.55	4.27	-2.15	0
1	1	167.4933333	4.32	-1.97	2000	255	17	167.4933333	4.3233	-1.97	0
1	1	169.436667	4.38	-1.79	2000	255	18	169.4366667	4.3767	-1.79	0
		171.38	4.43	-1.61	2000	255	19	171.38	4.43	-1.61	0
					2000	255	20	170.15	5.62	-1.88	0
					2000	255	21	171.07	5.32	-1.89	0
					2000	255	22	170.73	4.43	-1.86	0
					2000	255	23	173.9	4.25	-1.8	0
					2000	256	0	182.36	4.42	-1.74	0
					2000	256	1	190.66	4.83	-1.61	0

2000	256	2	204.27	3.53	-1.27	0
2000	256	3	189.17	3.51	-1.28	0
2000	256	4	187.63	4.52	-1.42	0
2000	256	5	199.52	4.31	-1.21	0
2000	256	6	193.19	5.58	-1.59	0
2000	256	7	186.88	6.15	-2.32	0
2000	256	8	179.09	5.73	-2.54	0
2000	256	9	178.9	6.23	-2.85	0
2000	256	10	178.24	6.72	-3.22	0
2000	256	11	184.39	6.93	-2.8	0
2000	256	12	189.1	6.98	-2.56	0
2000	256	13	189.46	7.44	-2.51	0
2000	256	14	189.74	8.56	-2.71	0
2000	256	15	174.95	6.39	-2.56	0
2000	256	16	170.47	5.76	-2	0
2000	256	17	170.67	5.51	-1.61	0
2000	256	18	169.81	4.51	-1.22	0
2000	256	19	164.98	3.84	-1.2	0
2000	256	20	177.87	6.25	-1.11	0
2000	256	21	183.84	7.33	-1.47	0
2000	256	22	179.99	7.59	-1.58	0
2000	256	23	177.89	6.23	-1.58	0
2000	257	0	191.66	5.71	-1.64	0
2000	257	1	186.56	5.46	-0.76	0.22
2000	257	2	175.3	3.43	-0.2	0.07
2000	257	3	144.27	1.99	-0.49	0.02
2000	257	4	189	2.07	-0.22	0
2000	257	5	210.99	2.29	-0.86	0
2000	257	6	254.39	2.43	-0.72	0
2000	257	7	98.7	3.45	-1.53	0
2000	257	8	14.24	5.29	-2.54	0
2000	257	9	359.38	4.84	-2.61	0
2000	257	10	359.25	5.71	-2.71	0
2000	257	11	4.26	6.44	-3.16	0
2000	257	12	12.33	5.92	-3.06	0
2000	257	13	7.36	5.79	-3.1	0
2000	257	14	8.22	5.64	-2.97	0
2000	257	15	0.53	4.58	-2.59	0
2000	257	16	12.25	5.32	-2.51	0
2000	257	17	359.98	4.03	-1.37	0
2000	257	18	18	3.64	0.11	0
2000	257	19	30.84	5.21	1.36	0
2000	257	20	28.76	3.67	1.62	0
2000	257	21	23.61	4.81	2.65	0
2000	257	22	26.22	6.1	3.67	0
2000	257	23	28.56	5.23	1.99	0
2000	258	0	26.3	5.07	1.61	0
2000	258	1	21.02	6.05	-0.13	0
2000	258	2	21.31	5.63	-0.77	0

2000	258	3	25.46	5.49	-0.24	0
2000	258	4	28.12	6.56	-0.16	0
2000	258	5	36.43	4.99	0.4	0
2000	258	6	37.95	5.23	1.22	0
2000	258	7	39.43	4.98	0.32	0
2000	258	8	41.82	4.26	-1.66	0
2000	258	9	331.19	3.06	-2.62	0
2000	258	10	214.83	4.37	-2.81	0
2000	258	11	179.58	5.53	-3.09	0
2000	258	12	157.17	4.48	-4	0
2000	258	13	169.63	6.42	-3.7	0
2000	258	14	170.21	6.75	-3.26	0
2000	258	15	169.32	5.13	-2.68	0
2000	258	16	167.8	4.38	-2.36	0
2000	258	17	150.8	2.85	-1.35	0
2000	258	18	148.46	3.03	-0.77	0
2000	258	19	166.36	4.92	-1.65	0
2000	258	20	158.4	3.21	-1.79	0
2000	258	21	140.08	3.1	-1.26	0
2000	258	22	91.31	2.42	-0.82	0
2000	258	23	155.28	3.91	-1.39	0
2000	259	0	189.84	5.42	-1.42	0.32
2000	259	1	171.02	4.05	-1.06	0.2
2000	259	2	187.69	5.57	-1.21	0.08
2000	259	3	202.37	3.89	-1.09	0.06
2000	259	4	217.79	2.22	-1.2	0
2000	259	5	169.24	2.31	-1.08	0
2000	259	6	207.26	2.51	-1.25	0
2000	259	7	348.1	4.09	-1.55	0
2000	259	8	134.38	2.97	-1.52	0
2000	259	9	238.97	3.49	-2.32	0
2000	259	10	274	4.81	-2.8	0
2000	259	11	260.38	5.6	-3.04	0
2000	259	12	252.27	5.29	-3.26	0
2000	259	13	304.1	4.87	-3.6	0
2000	259	14	258.7	5.13	-3.4	0
2000	259	15	278.68	4.21	-3.3	0
2000	259	16	248.86	4.3	-2.61	0
2000	259	17	273.57	3.79	-1.71	0
2000	259	18	329.58	3.89	-2.08	0
2000	259	19	298.84	4.15	-2.06	0
2000	259	20	302.17	4.41	-2.09	0
2000	259	21	243.48	4.88	-2.14	0
2000	259	22	257.88	4.84	-2.22	0
2000	259	23	276.38	5.53	-2.32	0
2000	260	0	319	5.31	-2.33	0
2000	260	1	324.66	4.93	-2.25	0
2000	260	2	356.11	5.45	-2.05	0
2000	260	3	3.96	5.04	-1.94	0

2000	260	4	3.57	4.27	-1.85	0
2000	260	5	9.15	3.74	-1.75	0
2000	260	6	9.03	3.46	-1.95	0
2000	260	7	336.75	3.47	-2.69	0
2000	260	8	340.05	4.64	-2.86	0
2000	260	9	305.98	5.2	-3.38	0
2000	260	10	295.39	4.8	-3.65	0
2000	260	11	325.7	4.69	-3.38	0
2000	260	12	286.42	4.28	-3.37	0
2000	260	13	262.71	4.5	-3.02	0
2000	260	14	299.06	4.52	-2.76	0
2000	260	15	343.87	3.79	-2.7	0
2000	260	16	335.35	4.31	-2.89	0
2000	260	17	234.72	2.65	-2.06	0
2000	260	18	228.25	2.75	0.02	0
2000	260	19	183.01	2.52	0.04	0
2000	260	20	233.56	2.36	0.61	0
2000	260	21	231.27	3.01	0.37	0
2000	260	22	243.14	2.76	-0.7	0
2000	260	23	217.02	2.89	-0.37	0
2000	261	0	221.41	3.26	0.52	0
2000	261	1	217.74	3.33	0.98	0
2000	261	2	230.16	2.79	0.13	0
2000	261	3	256.86	4.07	-1.17	0
2000	261	4	205.95	3.45	-1.11	0
2000	261	5	195.27	3.14	-0.4	0
2000	261	6	192.95	3.12	-0.81	0
2000	261	7	196.49	4.52	-2.43	0
2000	261	8	221.03	4.04	-2.93	0
2000	261	9	210.15	5.34	-3.25	0
2000	261	10	195.59	6.6	-3.2	0
2000	261	11	204.43	7.06	-3.71	0
2000	261	12	224.68	7.19	-3.57	0
2000	261	13	203.82	8.37	-3.65	0
2000	261	14	214.8	6.8	-3.42	0
2000	261	15	209.23	7.24	-2.97	0
2000	261	16	201.53	6.83	-2.15	0
2000	261	17	185.89	6.4	-1.35	0
2000	261	18	181.85	5.41	-0.57	0
2000	261	19	184.46	5.29	-0.43	0
2000	261	20	179.4	3.98	-0.08	0
2000	261	21	175.68	2.3	1.11	0
2000	261	22	189.04	2.96	0.46	0
2000	261	23	214.07	2.07	0.43	0
2000	262	0	337.15	1.98	-0.27	0
2000	262	1	238.05	1.91	-0.36	0
2000	262	2	228.45	1.92	0.31	0
2000	262	3	228.66	2.06	1.83	0
2000	262	4	17.66	1.76	3.23	0

2000	262	5	26.7	1.8	2.73	0
2000	262	6	81.5	1.68	4.45	0
2000	262	7	144.53	1.44	0.12	0
2000	262	8	131.63	2.14	-2.18	0
2000	262	9	183.51	3.36	-2.54	0
2000	262	10	209.99	3.56	-2.58	0
2000	262	11	181.23	4.53	-2.85	0
2000	262	12	191.39	4.61	-2.7	0
2000	262	13	177.68	4.54	-2.97	0
2000	262	14	166.65	3.6	-2.88	0
2000	262	15	164.14	3.05	-2.34	0
2000	262	16	208.37	2.83	-1.56	0
2000	262	17	191.58	5.43	-1.54	0
2000	262	18	187.72	3.96	-0.9	0
2000	262	19	163.25	1.86	0.05	0
2000	262	20	160.28	2.92	-0.25	0
2000	262	21	174.63	2.32	0.19	0
2000	262	22	304.85	1.95	0.49	0
2000	262	23	29.14	1.96	1.17	0
2000	263	0	14.53	2.17	1.24	0
2000	263	1	24.71	1.5	1.88	0
2000	263	2	39.57	1.74	1.46	0
2000	263	3	18.52	2.98	1.15	0
2000	263	4	27.38	2.96	0.98	0
2000	263	5	24.71	2.08	0.48	0
2000	263	6	23.49	2.41	0.32	0
2000	263	7	25.68	5.2	0.66	0
2000	263	8	27.34	3.03	-1.62	0
2000	263	9	253.89	2.46	-2.21	0
2000	263	10	250.07	2.17	-2.51	0
2000	263	11	285.48	2.4	-2.4	0
2000	263	12	337.28	2.5	-1.56	0
2000	263	13	44.6	3.35	-1.79	0
2000	263	14	17.66	4.69	-1.89	0
2000	263	15	22.23	5.74	-1.78	0.33
2000	263	16	19.63	9.47	-1.53	1.04
2000	263	17	356.12	4.71	-1.5	0.47
2000	263	18	19.87	8.01	-1.45	0.02
2000	263	19	16.18	8.03	-1.83	0
2000	263	20	15.8	6.27	-1.71	0
2000	263	21	20.49	6.41	-1.65	0.02
2000	263	22	10.89	5.92	-1.65	0
2000	263	23	15.36	5.68	-1.79	0
2000	264	0	9.58	4.61	-1.67	0
2000	264	1	7.08	5.27	-1.65	0
2000	264	2	2.64	3.97	-1.45	0
2000	264	3	247.66	2.92	-1.41	0
2000	264	4	276.48	3.8	-1.49	0
2000	264	5	253.32	3.2	-1.07	0

2000	264	6	342.83	3.67	-1.46	0
2000	264	7	82.06	2.86	-2.07	0
2000	264	8	140.62	2.47	-2.28	0
2000	264	9	220.11	3.02	-2.82	0
2000	264	10	215.06	3.33	-3.18	0
2000	264	11	201.6	3.94	-2.98	0
2000	264	12	181.76	4.51	-2.66	0
2000	264	13	178.91	4.13	-3.08	0
2000	264	14	164.84	3.78	-2.75	0
2000	264	15	178.05	3.89	-2.64	0
2000	264	16	190.15	7.1	-2.04	0
2000	264	17	186.27	5.16	-0.79	0
2000	264	18	198.28	2.61	0.93	0
2000	264	19	176.11	3.01	1.97	0
2000	264	20	175.03	3.07	1.9	0
2000	264	21	179.88	1.33	3.44	0
2000	264	22	299.88	1.33	3.33	0
2000	264	23	247.97	2.02	3.01	0
2000	265	0	232.61	1.93	1.36	0
2000	265	1	189.01	2.64	0.68	0
2000	265	2	186.47	3.38	0.41	0
2000	265	3	191.85	3.23	0.63	0
2000	265	4	182.42	4.08	-0.18	0
2000	265	5	189.67	2.73	-0.07	0
2000	265	6	185.06	3.08	-0.41	0
2000	265	7	240.54	3.99	-1.31	0
2000	265	8	247.91	5.64	-1.39	0
2000	265	9	252.26	5.02	-2.03	0
2000	265	10	267.74	5.01	-2.78	0
2000	265	11	284.6	5.99	-3.11	0
2000	265	12	254.15	6.18	-3.22	0
2000	265	13	264.23	6.17	-3.14	0
2000	265	14	251.2	6.39	-2.94	0
2000	265	15	249.78	5.16	-2.58	0
2000	265	16	256.7	5.24	-2.27	0
2000	265	17	261.5	4.41	-1.44	0
2000	265	18	291.53	2.75	-0.45	0
2000	265	19	346.47	3.77	-1.62	0
2000	265	20	317.03	3.29	-1.44	0
2000	265	21	243.23	3.61	-1.2	0
2000	265	22	245.6	3.49	-1.05	0
2000	265	23	256.99	3.47	-1.3	0
2000	266	0	294.82	3.04	-1.15	0
2000	266	1	346.69	3.6	-1.55	0
2000	266	2	272.45	3	-1.34	0
2000	266	3	238.82	4.36	-1.36	0
2000	266	4	243.69	4.18	-1.3	0
2000	266	5	190.5	3.79	-1.06	0
2000	266	6	206.55	4.21	-1.47	0

2000	266	7	207.95	3.8	-2.14	0
2000	266	8	355.63	4.43	-3.01	0
2000	266	9	347.47	4.36	-3.43	0
2000	266	10	4.89	5.1	-3.23	0
2000	266	11	33.96	4.08	-2.89	0
2000	266	12	346.56	3.18	-3.14	0
2000	266	13	311.56	3.21	-2.99	0
2000	266	14	349.5	2.81	-2.84	0
2000	266	15	319.39	2.91	-2.51	0
2000	266	16	308.54	2.61	-2.47	0
2000	266	17	238.06	2.25	-1.36	0
2000	266	18	318.37	1.77	0.83	0
2000	266	19	19.9	3.5	2.49	0
2000	266	20	25.06	4.33	3.12	0
2000	266	21	44.79	3.53	3.46	0
2000	266	22	31.99	3.26	3.21	0
2000	266	23	68.73	2.57	2.39	0
2000	267	0	21.52	3.02	3.17	0
2000	267	1	25.56	3.36	3.68	0
2000	267	2	22.48	4.8	4.18	0
2000	267	3	30.18	3.29	2.74	0
2000	267	4	29.27	4.29	1.74	0
2000	267	5	35.96	4.02	1.13	0
2000	267	6	70.1	1.73	-0.34	0
2000	267	7	40.71	2.71	-0.95	0
2000	267	8	52.53	2.41	-1.3	0
2000	267	9	83.06	2.1	-1.63	0
2000	267	10	355.9	1.81	-2.07	0
2000	267	11	185.3	2.69	-2.08	0
2000	267	12	188.29	3.54	-2.09	0
2000	267	13	186.56	5.46	-1.95	0
2000	267	14	191.97	4.92	-1.69	0
2000	267	15	185.07	4.13	-1.69	0
2000	267	16	171.11	3.55	-1.5	0
2000	267	17	164.69	2.06	-1.17	0
2000	267	18	137.96	1.57	-0.85	0
2000	267	19	138.42	1.15	-0.61	0
2000	267	20	139.96	1.27	-0.54	0
2000	267	21	119.49	1.18	-0.5	0
2000	267	22	56.36	1.59	-0.13	0
2000	267	23	103.44	1.58	-0.22	0
2000	268	0	353.26	1.17	-0.72	0
2000	268	1	81.31	1.41	0.09	0
2000	268	2	140.44	1.21	0.28	0
2000	268	3	144.69	1.13	-0.3	0
2000	268	4	190.35	1.76	-0.59	0
2000	268	5	209.73	1.39	-0.9	0
2000	268	6	192.35	1.79	-0.95	0
2000	268	7	212.77	2.35	-1.21	0

2000	268	8	167.97	1.93	-1.52	0
2000	268	9	172.29	2.52	-1.39	0
2000	268	10	187.37	2.99	-2.19	0
2000	268	11	245.57	3.03	-2.66	0
2000	268	12	306.11	3.99	-2.86	0
2000	268	13	348.11	4.84	-2.31	0
2000	268	14	1.47	5.69	-2.16	0
2000	268	15	9.31	6.8	-2.23	0
2000	268	16	5.55	6.67	-2.08	0
2000	268	17	0.85	5.58	-2.01	0
2000	268	18	5.76	5.24	-2.04	0
2000	268	19	4.16	4.92	-1.95	0
2000	268	20	12.69	6.91	-2.07	0
2000	268	21	18.66	8.15	-2.12	0
2000	268	22	16.45	7.28	-1.94	0
2000	268	23	24.93	5.02	-1.69	0
2000	269	0	32.37	3.8	-1.24	0
2000	269	1	15.61	4.41	-1.78	0
2000	269	2	24.44	4.35	-1.57	0
2000	269	3	19.2	4.17	-1.62	0
2000	269	4	14.82	6.49	-1.91	0
2000	269	5	19.05	6.96	-2.11	0
2000	269	6	17.95	5.94	-2.05	0
2000	269	7	16.26	6.48	-2.47	0
2000	269	8	10.12	7.03	-2.84	0
2000	269	9	8.8	7.98	-3.16	0
2000	269	10	6.66	6.92	-3.3	0
2000	269	11	9.74	7.95	-3.2	0
2000	269	12	5.99	6.69	-3.04	0
2000	269	13	8.41	6.92	-2.67	0
2000	269	14	11.42	5.5	-2.28	0
2000	269	15	26.98	5.21	-2.02	0
2000	269	16	20.42	6.34	-1.94	0
2000	269	17	22.68	7.32	-2.01	0
2000	269	18	24.55	7.82	-1.94	0
2000	269	19	20.31	8.05	-2.06	0
2000	269	20	21.36	7.02	-2.09	0
2000	269	21	29.48	6.02	-1.85	0
2000	269	22	21.21	6.78	-1.98	0
2000	269	23	27.97	6.7	-1.9	0
2000	270	0	22.53	5.62	-1.72	0
2000	270	1	21.77	7.18	-1.73	0
2000	270	2	25.51	6.92	-1.91	0
2000	270	3	18.48	7.63	-2.23	0
2000	270	4	21.5	8.1	-2.2	0
2000	270	5	19.51	9.07	-2.3	0
2000	270	6	18.67	8.4	-2.28	0
2000	270	7	21.06	9.52	-2.02	0.02
2000	270	8	21.18	10.58	-2.14	0

2000	270	9	20.94	10.17	-2.26	0
2000	270	10	19.28	9.49	-2.33	0
2000	270	11	13.68	9.26	-3.01	0
2000	270	12	11.63	9.33	-3.21	0.07
2000	270	13	10.38	9.64	-3.08	0.08
2000	270	14	12.02	10.07	-3.07	0.07
2000	270	15	16.24	10.2	-2.13	0.02
2000	270	16	13.32	8.24	-2.18	0
2000	270	17	12.07	7.23	-2.08	0
2000	270	18	10.24	6.25	-1.93	0
2000	270	19	11.72	6.64	-1.87	0
2000	270	20	27.06	4.31	-1.2	0
2000	270	21	61.73	2.16	-0.21	0
2000	270	22	58.75	2.21	0.16	0
2000	270	23	28.18	3.51	0.71	0
2000	271	0	46.03	3.97	0.63	0
2000	271	1	43.65	3.22	1.54	0
2000	271	2	68.11	2.52	1.66	0
2000	271	3	56.64	2.66	1.88	0
2000	271	4	72.61	2.73	0.93	0
2000	271	5	60.15	2.49	0.65	0
2000	271	6	35.07	2.53	1.02	0
2000	271	7	71.9	1.44	-0.47	0
2000	271	8	130.65	1.73	-2.12	0
2000	271	9	180.36	3.05	-2.48	0
2000	271	10	184.33	4.35	-2.44	0
2000	271	11	179.39	3.02	-2.65	0
2000	271	12	212.48	4.12	-2.93	0
2000	271	13	208.73	4.21	-3.02	0
2000	271	14	204.71	4.87	-2.87	0
2000	271	15	205.42	3.58	-2.69	0
2000	271	16	207.69	4.01	-2.26	0
2000	271	17	201.65	3.84	-1	0
2000	271	18	249.08	1.93	1.01	0
2000	271	19	145.34	2.33	0.68	0
2000	271	20	98.92	2.28	2.25	0
2000	271	21	48.15	1.63	3.35	0
2000	271	22	66.29	1.29	3.8	0
2000	271	23	28.28	1.16	4.19	0
2000	272	0	19.88	1.8	4.26	0
2000	272	1	32.6	2.58	4.86	0
2000	272	2	68.28	2.37	3.77	0
2000	272	3	31.92	4.73	0.6	0
2000	272	4	43.5	3.82	-0.55	0
2000	272	5	49.06	3.56	-0.36	0
2000	272	6	69.59	3.3	-0.72	0
2000	272	7	66.17	3.77	-1.66	0
2000	272	8	21.71	7.28	-2.47	0
2000	272	9	8.2	8.64	-3.22	0

2000	272	10	2.69	8.31	-3.59	0
2000	272	11	13.2	8.76	-3.29	0
2000	272	12	6.43	7.97	-2.98	0
2000	272	13	6.41	7.58	-3.53	0
2000	272	14	3.05	6.55	-3.35	0
2000	272	15	8.43	6.64	-3.01	0
2000	272	16	20.92	7.52	-2.62	0
2000	272	17	21.87	7.47	-2.05	0
2000	272	18	21.33	7.35	-1.7	0
2000	272	19	20.14	7.67	-1.58	0
2000	272	20	21.83	6.22	-1.51	0
2000	272	21	28.05	5.51	-1.41	0
2000	272	22	35.16	4.68	-0.72	0
2000	272	23	49.16	3.77	-0.26	0
2000	273	0	39.69	4.44	-0.2	0
2000	273	1	23	6.44	-1.1	0
2000	273	2	39.43	5.1	-0.68	0
2000	273	3	10.64	7.24	-1.69	0
2000	273	4	18.21	6.85	-1.45	0
2000	273	5	18.73	5.75	-0.99	0
2000	273	6	19.42	5.76	-1.66	0
2000	273	7	17.47	5.66	-2.36	0
2000	273	8	8.78	5.3	-2.81	0
2000	273	9	11.91	4.14	-2.79	0
2000	273	10	337.3	3.41	-3.05	0
2000	273	11	348.76	4.2	-3.16	0
2000	273	12	6.53	3.38	-2.84	0
2000	273	13	345.25	3.92	-2.99	0
2000	273	14	352.15	3.28	-2.73	0
2000	273	15	359.19	2.9	-2.68	0
2000	273	16	104.62	1.87	-2.15	0
2000	273	17	134.64	1.2	-0.89	0
2000	273	18	68.54	2.18	1.12	0
2000	273	19	63.58	1.73	0.52	0
2000	273	20	26.29	2.56	1.07	0
2000	273	21	24.48	3.2	1.83	0
2000	273	22	29.29	3.99	2.93	0
2000	273	23	28.49	4.06	3.31	0
2000	274	0	24.33	3.63	3.22	0
2000	274	1	27.38	4.11	3.68	0
2000	274	2	24.59	3.32	3.67	0
2000	274	3	30.12	4.47	4.19	0
2000	274	4	28.81	4.98	3.78	0
2000	274	5	38.17	3.78	3.71	0
2000	274	6	36.91	3.17	3.25	0
2000	274	7	39.46	2.67	0.91	0
2000	274	8	108.51	1.69	-1.91	0
2000	274	9	188.08	3.04	-2.33	0
2000	274	10	181.67	4.89	-2.85	0

2000	274	11	179.12	5.92	-3.26	0
2000	274	12	178.25	6.69	-3.45	0
2000	274	13	178.48	6.5	-3.47	0
2000	274	14	167.76	5.08	-3.5	0
2000	274	15	166.75	4.53	-3.2	0
2000	274	16	174.34	4.91	-2.26	0
2000	274	17	182.55	4.71	-0.67	0
2000	274	18	191.81	4.17	-0.22	0
2000	274	19	192.01	5.41	-0.73	0
2000	274	20	216.37	2.84	-0.06	0
2000	274	21	221.62	2.03	-0.09	0
2000	274	22	179.19	1.22	1.82	0
2000	274	23	22.68	1.84	2.48	0
2000	275	0	25.92	2.08	2.39	0
2000	275	1	22.42	2.84	3.33	0
2000	275	2	26.48	2.67	3.04	0
2000	275	3	30.83	3.18	3.98	0
2000	275	4	33.43	2.32	2.69	0
2000	275	5	31.07	2.22	1.35	0
2000	275	6	74.34	1.54	-0.58	0
2000	275	7	80.09	1.35	-1.3	0
2000	275	8	37.84	1.97	-1.07	0
2000	275	9	98.44	2.38	-1.41	0
2000	275	10	212.12	3.31	-1.84	0
2000	275	11	194.85	3.73	-3.38	0
2000	275	12	173.55	4.88	-4.1	0
2000	275	13	165.57	4.84	-3.68	0
2000	275	14	153.8	3.6	-3.37	0
2000	275	15	163.88	3.86	-3.1	0
2000	275	16	164.9	2.6	-1.68	0
2000	275	17	174.75	2.32	-0.33	0
2000	275	18	126.38	1.81	0.04	0
2000	275	19	158.1	1.27	0.61	0
2000	275	20	162.51	1.75	1.54	0
2000	275	21	340.64	1.89	0.82	0
2000	275	22	22.39	2.34	1.47	0
2000	275	23	25.23	3.59	1.83	0
2000	276	0	26.23	4.59	2.25	0
2000	276	1	29.69	5.86	2.78	0
2000	276	2	31.17	5.08	2.82	0
2000	276	3	26.47	5.12	0.52	0
2000	276	4	43.38	4.11	-0.39	0
2000	276	5	56.33	3.65	-0.92	0
2000	276	6	57.06	2.72	-0.84	0
2000	276	7	50.46	3.45	-1.34	0
2000	276	8	35.46	2.47	-1.63	0
2000	276	9	20.33	3.25	-1.92	0
2000	276	10	41.28	4.59	-2.84	0
2000	276	11	1.84	2.92	-4.67	0

2000	276	12	45.44	3.19	-3.69	0
2000	276	13	17.78	3.12	-2.57	0
2000	276	14	219.15	2.96	-2.64	0
2000	276	15	219.38	2.68	-2.58	0
2000	276	16	224.26	2.38	-1.99	0
2000	276	17	181.94	1.52	0.09	0
2000	276	18	28.78	2.45	1.88	0
2000	276	19	27.82	3.11	4.07	0
2000	276	20	21.1	3.58	3.42	0
2000	276	21	17.87	2.86	3.1	0
2000	276	22	26.2	3.16	3.46	0
2000	276	23	22.21	3.06	4.23	0
2000	277	0	35.29	2.49	5.74	0
2000	277	1	45.29	2.1	4.18	0
2000	277	2	32.84	1.94	1.12	0
2000	277	3	24.58	2.06	1.65	0
2000	277	4	42.71	1.38	0.98	0
2000	277	5	79.47	1.69	1.19	0
2000	277	6	28.59	2.53	1.16	0
2000	277	7	157.34	2	1.99	0
2000	277	8	127.45	2.22	2.43	0
2000	277	9	180.33	3.14	-0.11	0
2000	277	10	201.26	1.94	-0.86	0
2000	277	11	155.75	2.14	-0.62	0
2000	277	12	288	4.53	-2.25	0
2000	277	13	307.72	5.04	-2.9	0
2000	277	14	304.06	3.77	-2.73	0
2000	277	15	247.27	3.4	-2.32	0
2000	277	16	248.57	2.99	-1.41	0
2000	277	17	318.14	3	-0.38	0
2000	277	18	359.25	5.43	-1.1	0
2000	277	19	359.01	4.59	-1.05	0
2000	277	20	1.99	6.06	-0.94	0
2000	277	21	6.36	4.37	-0.4	0
2000	277	22	166.75	1.89	2.85	0
2000	277	23	57.62	2.17	3.16	0
2000	278	0	5.28	1.67	4.45	0
2000	278	1	17.39	3.8	5.38	0
2000	278	2	352.03	2.74	5.44	0
2000	278	3	35.61	4.29	3.99	0
2000	278	4	24.23	3.71	3.5	0
2000	278	5	27.37	3.19	4.62	0
2000	278	6	142.74	1.85	1.88	0
2000	278	7	192.04	1.76	-0.09	0
2000	278	8	39.01	2.5	-1.2	0
2000	278	9	142.19	2.75	-1.78	0
2000	278	10	181.8	2.64	-2.07	0
2000	278	11	164.58	3.25	-2.83	0
2000	278	12	66.2	3.51	-2.43	0

2000	278	13	142.77	3.14	-2.8	0
2000	278	14	171.43	5.82	-3.07	0
2000	278	15	168.14	4.74	-2.38	0
2000	278	16	169.71	3.4	-1.08	0
2000	278	17	39.47	2.27	-0.31	0
2000	278	18	9.86	6.71	-1.69	0
2000	278	19	10.46	7.11	-1.57	0
2000	278	20	31.63	4.99	-1.6	0
2000	278	21	30.53	5.07	-1.5	0
2000	278	22	5.25	6.23	-1.87	0
2000	278	23	4.07	8.55	-2.11	0
2000	279	0	4.55	7.53	-2.05	0
2000	279	1	8.47	7.08	-2.01	0
2000	279	2	13.39	5.83	-1.52	0
2000	279	3	18.47	5.62	-1.36	0
2000	279	4	23.83	6.55	-1.73	0
2000	279	5	23.65	6.92	-1.71	0
2000	279	6	34.8	5	-1.67	0
2000	279	7	19.95	5.16	-1.89	0
2000	279	8	29.83	4.45	-1.94	0
2000	279	9	28.68	3.45	-1.59	0.02
2000	279	10	17.88	4.6	-1.62	0.03
2000	279	11	27.73	6.19	-1.78	0
2000	279	12	35.54	3.98	-1.98	0
2000	279	13	55.2	3.29	-1.7	0
2000	279	14	35.79	4.87	-1.71	0
2000	279	15	40.96	4.66	-1.77	0
2000	279	16	40.74	3.73	-1.72	0
2000	279	17	55.55	2.74	-1.86	0
2000	279	18	158.05	1.59	-1.78	0
2000	279	19	40.97	1.58	-1.34	0.01
2000	279	20	36.89	1.85	-1.19	0
2000	279	21	9.09	2.89	-0.98	0
2000	279	22	27.79	4.62	-0.99	0
2000	279	23	29.94	5.18	-1.29	0
2000	280	0	25.26	3.43	-1.32	0
2000	280	1	17	2.23	-1.33	0
2000	280	2	25.12	1.23	-1.07	0
2000	280	3	52.72	1.44	-0.67	0
2000	280	4	92.91	1.53	-0.62	0
2000	280	5	63.51	1.68	-0.42	0
2000	280	6	140.7	1.47	-0.11	0
2000	280	7	112.13	1.48	-0.15	0
2000	280	8	178.63	2.34	-0.71	0
2000	280	9	184.94	2.81	-1.52	0
2000	280	10	179.63	2.61	-1.74	0
2000	280	11	168.3	3.13	-2.16	0
2000	280	12	184.42	1.93	-2.38	0
2000	280	13	184.08	2.23	-2.75	0

2000	280	14	287.25	1.8	-2.45	0
2000	280	15	320.02	2.65	-1.71	0
2000	280	16	261.83	4.71	-1.97	0
2000	280	17	333.26	7.1	-1.91	0
2000	280	18	2.22	8.25	-1.82	0
2000	280	19	0.31	6.77	-1.69	0
2000	280	20	358.43	5.8	-1.75	0
2000	280	21	356.28	5.6	-1.76	0
2000	280	22	2.35	5.61	-1.67	0
2000	280	23	80.48	4.01	-1.42	0
2000	281	0	350.11	4.76	-1.43	0
2000	281	1	76.2	4.37	-1.16	0
2000	281	2	356.19	5.38	-1.51	0
2000	281	3	358.29	5.78	-1.66	0
2000	281	4	347.72	2.88	-1.35	0
2000	281	5	320.48	2.46	-1.11	0
2000	281	6	285.29	3.31	-1.65	0
2000	281	7	5.75	2.64	-2.19	0
2000	281	8	347.29	3.93	-2.75	0
2000	281	9	313.89	3.47	-3.44	0
2000	281	10	334.71	3.92	-3.32	0
2000	281	11	333.79	3.84	-2.94	0
2000	281	12	256.96	3.36	-2.92	0
2000	281	13	288.36	4.07	-3.13	0
2000	281	14	320.66	4.06	-3.21	0
2000	281	15	324.92	3.89	-2.58	0
2000	281	16	348.64	3.63	-1.95	0
2000	281	17	290.72	4.05	-1.77	0
2000	281	18	317.83	4.61	-1.95	0
2000	281	19	280.69	3.57	-1.73	0
2000	281	20	275.49	3.76	-1.71	0
2000	281	21	286.66	3.53	-1.75	0
2000	281	22	301.21	3.53	-1.86	0
2000	281	23	253.24	4.17	-1.68	0
2000	282	0	262.79	3.87	-1.67	0
2000	282	1	330.55	3.71	-1.78	0
2000	282	2	287.21	3.12	-1.82	0
2000	282	3	194.94	2.36	-0.99	0
2000	282	4	183.66	1.79	-0.81	0
2000	282	5	188.1	2.82	-1.27	0
2000	282	6	183.85	3.14	-1.14	0
2000	282	7	209.3	3.26	-2.27	0
2000	282	8	253.34	4.14	-3.17	0
2000	282	9	328.83	4.56	-3.94	0
2000	282	10	335.55	5.61	-3.85	0
2000	282	11	276.75	5.9	-4.05	0
2000	282	12	317.27	5.83	-4.05	0
2000	282	13	262.33	5.46	-3.87	0
2000	282	14	292.07	5.21	-3.67	0

2000	282	15	288.09	5.17	-3.16	0
2000	282	16	294.67	3.92	-2.63	0
2000	282	17	347.98	3.36	-1.89	0
2000	282	18	5.2	3.32	-1.61	0
2000	282	19	4.06	3.64	-1.57	0
2000	282	20	13.37	3.27	-1.4	0
2000	282	21	24.67	4.73	-0.75	0
2000	282	22	33.3	5.37	-1.22	0
2000	282	23	37.57	5.65	-1.08	0
2000	283	0	29.03	5.82	-1.41	0
2000	283	1	33.98	4.02	-0.82	0
2000	283	2	27.73	5.11	-1.14	0
2000	283	3	17.85	5.04	-1.75	0
2000	283	4	27.08	3.87	-0.99	0
2000	283	5	11.94	5.77	-1.76	0
2000	283	6	8.65	7.79	-2.05	0
2000	283	7	6.9	7.02	-2.51	0
2000	283	8	5.4	8.44	-2.75	0
2000	283	9	8.18	7.53	-3.29	0
2000	283	10	2.28	7.74	-3.39	0
2000	283	11	4.43	7.95	-3.67	0
2000	283	12	358.16	8.31	-3.38	0
2000	283	13	350.85	5.87	-2.69	0
2000	283	14	6.16	7.43	-2.34	0
2000	283	15	6.18	6.82	-2.36	0
2000	283	16	0.53	6.24	-2.29	0
2000	283	17	358.91	4.94	-2.02	0
2000	283	18	8.67	5.62	-1.9	0
2000	283	19	355.53	4.15	-1.84	0
2000	283	20	358.7	4.3	-2.06	0
2000	283	21	3.04	3.9	-2.24	0
2000	283	22	331.2	4.07	-2.14	0
2000	283	23	354.94	3.93	-2.15	0
2000	284	0	164.92	3.38	-1.17	0
2000	284	1	133.37	2.24	0.1	0
2000	284	2	138.18	2.53	-0.14	0
2000	284	3	130.08	2.29	-0.85	0
2000	284	4	156.83	2.72	-0.95	0
2000	284	5	127.24	3.11	-0.85	0
2000	284	6	197.65	4.64	-1.54	0
2000	284	7	286.5	3.74	-1.93	0
2000	284	8	274.35	4.4	-3.22	0
2000	284	9	323.14	4.1	-3.39	0
2000	284	10	248.7	5.38	-3.71	0
2000	284	11	266.77	5.8	-3.25	0
2000	284	12	257.25	5.59	-2.78	0
2000	284	13	259.49	6.05	-2.86	0
2000	284	14	265.69	4.87	-2.57	0
2000	284	15	271.24	5.32	-2.48	0

2000	284	16	257.78	4.3	-2.17	0
2000	284	17	252.3	3.48	-1.48	0
2000	284	18	229.73	2.15	-0.13	0
2000	284	19	194.28	2.77	-0.38	0
2000	284	20	181.89	3.46	-0.51	0
2000	284	21	201.42	3.39	-0.8	0
2000	284	22	193.95	2.64	-0.71	0
2000	284	23	155	2.6	0.15	0
2000	285	0	107.8	2.05	1.04	0
2000	285	1	179.39	1.1	0.92	0
2000	285	2	203.56	1.77	1.69	0
2000	285	3	181.69	3.04	2.72	0
2000	285	4	171.64	3.58	1.54	0
2000	285	5	171.1	2.71	1.57	0
2000	285	6	170.55	1.75	1.2	0
2000	285	7	191.5	2.91	0.68	0
2000	285	8	183.39	4.32	-0.6	0
2000	285	9	278.87	4.59	-2.75	0
2000	285	10	275.64	6.3	-3.29	0
2000	285	11	305.23	5.19	-3.31	0
2000	285	12	310.74	5.87	-3.25	0
2000	285	13	288.81	5.13	-3.21	0
2000	285	14	269.03	4.91	-2.98	0
2000	285	15	264.15	3.54	-2.02	0
2000	285	16	231.74	3.19	-1.16	0
2000	285	17	216.39	3.47	0.19	0
2000	285	18	259.94	3.99	0.52	0
2000	285	19	355.08	5.85	-1.18	0
2000	285	20	357.02	6.1	-1.23	0
2000	285	21	3.23	5.87	-1.18	0
2000	285	22	351.08	5.29	-1.37	0
2000	285	23	1.08	4.92	-1.29	0
2000	286	0	11.96	4.57	-0.09	0
2000	286	1	30.92	2.42	2.2	0
2000	286	2	23.53	2.23	3.67	0
2000	286	3	23.29	2.56	4.78	0
2000	286	4	33.13	2.43	4.54	0
2000	286	5	18.85	3.36	5.33	0
2000	286	6	32.97	4.21	5.28	0
2000	286	7	26.26	4.82	2.64	0
2000	286	8	25.96	2.27	-1.28	0
2000	286	9	215.6	2.2	-2.05	0
2000	286	10	307.78	2.36	-1.88	0
2000	286	11	182.55	4.87	-2.63	0
2000	286	12	181.87	3.9	-2.87	0
2000	286	13	202	4.29	-2.8	0
2000	286	14	204.22	3.75	-2.38	0
2000	286	15	180.46	3.14	-1.7	0
2000	286	16	165.45	2.35	0.63	0

2000	286	17	224.88	2.54	2.58	0
2000	286	18	347.64	1.31	5.65	0
2000	286	19	351.84	1.85	9.17	0
2000	286	20	18.13	1.58	10.04	0
2000	286	21	20.6	1.8	12.06	0
2000	286	22	14.68	2.7	10.73	0
2000	286	23	8.49	1.82	8.53	0
2000	287	0	327.07	1.5	9.05	0
2000	287	1	8.77	1.85	9.71	0
2000	287	2	25.34	2.36	9.45	0
2000	287	3	15.44	2.56	7.31	0
2000	287	4	17.88	2.14	7.93	0
2000	287	5	27.85	2.57	8.8	0
2000	287	6	68.54	1.97	8.32	0
2000	287	7	155.45	1.42	5.27	0
2000	287	8	190.61	2.22	0.38	0
2000	287	9	198.21	3.71	-2.16	0
2000	287	10	187.33	4	-2.49	0
2000	287	11	183.98	4.57	-2.74	0
2000	287	12	178.26	5.3	-2.92	0
2000	287	13	169.41	3.17	-2.21	0
2000	287	14	168.45	3.18	-2.38	0
2000	287	15	176.51	2.99	-1.87	0
2000	287	16	188.97	2.06	0.21	0
2000	287	17	214.27	2.35	4.24	0
2000	287	18	171.01	1.85	5.18	0
2000	287	19	29.91	1.88	6.85	0
2000	287	20	107.87	1.5	8.38	0
2000	287	21	88.73	1.91	7.41	0
2000	287	22	333.12	1.81	7.06	0
2000	287	23	311.05	1.68	4.35	0
2000	288	0	21.48	1.82	3.94	0
2000	288	1	0.86	2.05	5.95	0
2000	288	2	22.27	2.15	10.43	0
2000	288	3	129.43	2.07	8.5	0
2000	288	4	321.57	1.55	7.26	0
2000	288	5	274.12	1.29	6.62	0
2000	288	6	17.38	1.51	7.05	0
2000	288	7	187.17	2.03	5.59	0
2000	288	8	177.35	3.34	3.08	0
2000	288	9	180.13	3.31	-0.62	0
2000	288	10	186.17	3.88	-2.23	0
2000	288	11	181.76	3.86	-2.26	0
2000	288	12	186.01	3.76	-1.8	0
2000	288	13	184.78	4.32	-1.77	0
2000	288	14	175.27	3.79	-1.84	0
2000	288	15	182.93	3.54	-0.85	0
2000	288	16	175.12	2.92	1.5	0
2000	288	17	207.01	2.64	2.65	0

2000	288	18	222.58	1.91	3.99	0
2000	288	19	133.18	1.69	4.46	0
2000	288	20	145.08	1.96	4.8	0
2000	288	21	297.81	1.39	5.5	0
2000	288	22	329.56	1.38	7.84	0
2000	288	23	8.99	1.68	8.87	0
2000	289	0	25.6	1.62	10.67	0
2000	289	1	25.08	1.92	11.34	0
2000	289	2	224.45	1.8	11.52	0
2000	289	3	275.98	1.87	8.87	0
2000	289	4	28	3.35	9.45	0
2000	289	5	40.78	2.63	7.87	0
2000	289	6	178.15	1.99	6.26	0
2000	289	7	295.02	1.9	5.33	0
2000	289	8	235.1	1.58	0.38	0
2000	289	9	197.64	2.72	-2.13	0
2000	289	10	358.24	3.28	-2.38	0
2000	289	11	294.16	2.42	-2.56	0
2000	289	12	2.36	3.27	-2.5	0
2000	289	13	13.63	3.77	-2.26	0
2000	289	14	27.12	3.34	-2.57	0
2000	289	15	338.02	2.3	-1.96	0
2000	289	16	185.94	1.74	-0.08	0
2000	289	17	16.49	2.37	2.81	0
2000	289	18	28.81	2.81	3.44	0
2000	289	19	23.48	2.91	3.67	0
2000	289	20	30.51	5.69	4.55	0
2000	289	21	26.53	6.06	2.26	0
2000	289	22	28.59	4.57	-0.23	0
2000	289	23	32.28	5.21	-0.85	0
2000	290	0	41.76	4.28	-1.51	0
2000	290	1	73.93	3.92	-1.69	0
2000	290	2	43.69	3.43	-1.71	0
2000	290	3	62.15	3.43	-1.78	0
2000	290	4	46.85	3.65	-2.02	0
2000	290	5	64.35	2.86	-1.97	0
2000	290	6	84.3	2.63	-1.91	0
2000	290	7	76.63	2.24	-1.58	0
2000	290	8	90.63	2.15	-1.65	0.01
2000	290	9	86.01	2.1	-1.74	0
2000	290	10	109.9	2.09	-1.85	0
2000	290	11	95.14	2.09	-1.92	0
2000	290	12	74.7	2.28	-2.1	0
2000	290	13	48.93	2.27	-2.12	0
2000	290	14	21.68	3.15	-2.06	0
2000	290	15	10.74	3.97	-1.74	0
2000	290	16	23.5	5.65	-1.7	0
2000	290	17	25.92	6.72	-1.81	0
2000	290	18	31	6.05	-1.96	0

2000	290	19	36.28	5.04	-2.02	0
2000	290	20	29.45	5.4	-2.06	0
2000	290	21	31.26	5.69	-1.99	0
2000	290	22	27.76	5.5	-2.02	0
2000	290	23	30.99	4.85	-2.12	0
2000	291	0	32.37	4.61	-2.04	0
2000	291	1	29.92	4.86	-2.05	0
2000	291	2	35.24	4.95	-2.06	0
2000	291	3	36.17	3.83	-2.07	0
2000	291	4	27.92	3.48	-2.04	0
2000	291	5	30.38	3.85	-1.99	0
2000	291	6	30.58	3.65	-2.09	0
2000	291	7	21.06	4.66	-2.08	0
2000	291	8	25.78	4.65	-2.18	0
2000	291	9	27.42	4.08	-2.32	0
2000	291	10	24.51	3.73	-2.42	0
2000	291	11	12.85	2.73	-2.49	0
2000	291	12	221.03	4.79	-2.8	0
2000	291	13	189.11	5.16	-2.65	0
2000	291	14	181.98	5.13	-2.2	0
2000	291	15	179.85	2.68	-1.23	0.01
2000	291	16	138.85	1.58	-0.99	0
2000	291	17	77.7	1.92	-0.98	0
2000	291	18	172.42	1.49	-0.58	0
2000	291	19	191.17	1.13	-1.05	0
2000	291	20	39.95	2.1	-1.31	0
2000	291	21	43.49	1.55	-1.4	0
2000	291	22	77.5	1.23	-1.01	0
2000	291	23	201.71	1.51	-1.04	0
2000	292	0	41.13	3.44	-1.41	0
2000	292	1	58.6	3.82	-1.91	0
2000	292	2	39.52	3.48	-2.03	0
2000	292	3	43.28	2.71	-2.11	0
2000	292	4	44.07	2.51	-2.06	0
2000	292	5	97.41	2.01	-1.98	0
2000	292	6	47.75	2.78	-2.01	0
2000	292	7	9.94	4.05	-1.75	0
2000	292	8	27.68	3.46	-1.89	0.01
2000	292	9	303.04	1.89	-1.95	0
2000	292	10	31.91	2.76	-2.05	0
2000	292	11	20.99	3.95	-1.96	0.06
2000	292	12	17.72	3.53	-1.83	0.06
2000	292	13	9.11	3.3	-1.85	0.07
2000	292	14	24.85	2.79	-1.55	0.01
2000	292	15	33.07	5.13	-1.81	0
2000	292	16	13.76	5.35	-1.55	0
2000	292	17	19.98	4.08	-1.67	0
2000	292	18	12.81	6.05	-1.89	0
2000	292	19	10.4	5.87	-1.89	0

					2000	292	20	11.65	6.4	-1.74	0
					2000	292	21	12.01	5.11	-1.58	0
					2000	292	22	3.48	4.62	-1.58	0
					2000	292	23	2.61	4.49	-1.53	0
					2000	293	0	5.32	5.32	-1.39	0
					2000	293	1	2.65	4.53	-1.31	0
					2000	293	2	12.24	3.06	-0.65	0
					2000	293	3	6.39	3.47	-0.45	0
					2000	293	4	350.26	4.16	-0.89	0
					2000	293	5	316.45	3.93	-0.82	0
					2000	293	6	312.11	4.73	-1.33	0
					2000	293	7	293.22	4.5	-1.58	0
					2000	293	8	273.16	5.25	-2.38	0
					2000	293	9	291.16	4.56	-2.92	0
					2000	293	10	305.19	4.36	-2.65	0
					2000	293	11	305.78	5.42	-2.82	0
					2000	293	12	313.93	5.74	-2.98	0
					2000	293	13	339.27	6.76	-2.98	0
					2000	293	14	342.35	6.14	-2.76	0
					2000	293	15	352.33	4.99	-2.4	0
					2000	293	16	309.95	4.69	-1.92	0
					2000	293	17	297.04	3.6	-1.28	0
					2000	293	18	349.05	3.53	-1.19	0
					2000	293	19	1.22	4.33	-1.33	0
					2000	293	20	8.22	5.35	-1.5	0
					2000	293	21	2.59	2.81	-0.3	0
					2000	293	22	30.65	2.79	2.41	0
					2000	293	23	40.79	2.34	3.23	0
					2000	294	0	40.95	2.23	3.59	0
					2000	294	1	23.35	2.22	4.44	0
					2000	294	2	45.86	2.5	5.36	0
					2000	294	3	146.35	1.67	3.61	0
					2000	294	4	28.22	1.65	2.74	0
					2000	294	5	23.46	2.67	4.12	0
					2000	294	6	17.39	2.36	4.47	0
		WD-10	WS-10	DT U/L	2000	294	7	20.58	2.01	3	0
		359.79	1.81	0.84	2000	294	8	359.79	1.81	0.84	0
1	1	298.9033333	2.41	-0.29	2000	294	9	298.9033333	2.41	-0.293	0
1	1	238.016667	3.01	-1.43	2000	294	10	238.0166667	3.01	-1.427	0
		177.13	3.61	-2.56	2000	294	11	177.13	3.61	-2.56	0
					2000	294	12	172.85	4.84	-2.9	0
					2000	294	13	173.55	3.65	-2.8	0
					2000	294	14	180.43	4.85	-2.86	0
					2000	294	15	164.32	3.79	-2.67	0
					2000	294	16	158.54	2.93	-0.7	0
					2000	294	17	187.67	2.1	1.26	0
					2000	294	18	136.9	1.33	1.47	0
					2000	294	19	187.54	2.53	1.4	0
					2000	294	20	201.33	1.81	1.18	0

2000	294	21	252.27	1.45	2.18	0
2000	294	22	15.78	1.28	3.33	0
2000	294	23	18.41	1.49	2.49	0
2000	295	0	13.29	1.84	2.8	0
2000	295	1	2.29	1.82	2.63	0
2000	295	2	16.55	1.67	2.6	0
2000	295	3	10.14	1.89	2.51	0
2000	295	4	14.66	1.83	1.96	0
2000	295	5	345.55	1.43	1.77	0
2000	295	6	37.7	1.71	1.88	0
2000	295	7	84.09	1.29	0.93	0
2000	295	8	161.77	2.18	-1.25	0
2000	295	9	178.92	3.76	-2.26	0
2000	295	10	195.82	4.85	-2.4	0
2000	295	11	215.37	3.57	-2.18	0
2000	295	12	192.92	4.65	-2.42	0
2000	295	13	183.49	4.8	-2.3	0
2000	295	14	166.52	3.41	-2.6	0
2000	295	15	167.69	3.24	-2.07	0
2000	295	16	259.25	2.07	0.62	0
2000	295	17	235.39	1.59	4.39	0
2000	295	18	87.58	1.49	5.36	0
2000	295	19	351.91	1.53	6.86	0
2000	295	20	34.3	3.85	7.24	0
2000	295	21	37.54	2.52	6.82	0
2000	295	22	20.98	6.7	2.26	0
2000	295	23	9.26	9.04	-0.54	0
2000	296	0	14.31	10.91	-1.52	0
2000	296	1	11.7	9.71	-1.63	0
2000	296	2	14.41	10	-1.73	0
2000	296	3	19.39	9.82	-1.79	0
2000	296	4	19.95	8.83	-1.76	0
2000	296	5	14.26	10.68	-1.94	0
2000	296	6	21.42	11.11	-1.86	0
2000	296	7	13.89	9.8	-2.17	0
2000	296	8	11.43	8.85	-2.67	0
2000	296	9	3	7.22	-2.94	0
2000	296	10	354.41	7.35	-3.17	0
2000	296	11	357.04	7.1	-3.25	0
2000	296	12	352.82	6.65	-3.32	0
2000	296	13	350.16	6.99	-3.06	0
2000	296	14	0.11	7.11	-2.85	0
2000	296	15	2.56	7.01	-2.49	0
2000	296	16	1.57	6.81	-1.89	0
2000	296	17	17.15	8.44	-1.35	0
2000	296	18	23.3	7.46	-1.03	0
2000	296	19	27.75	5.38	-0.64	0
2000	296	20	13.75	5.48	-0.71	0
2000	296	21	33.45	4.64	1.1	0

2000	296	22	38.08	4.43	1.62	0
2000	296	23	31.83	5.13	1.41	0
2000	297	0	33.37	5.71	2.54	0
2000	297	1	33.96	4.77	3.24	0
2000	297	2	31.46	6.25	2.19	0
2000	297	3	31.69	5.61	2.94	0
2000	297	4	33.5	5.48	2.76	0
2000	297	5	35.41	5.29	2.54	0
2000	297	6	43.19	3.72	2.05	0
2000	297	7	32.51	4.05	0.15	0
2000	297	8	34.02	4.19	-1.95	0
2000	297	9	14.53	3.37	-2.19	0
2000	297	10	269.02	3.66	-2.42	0
2000	297	11	210.9	4.82	-2.6	0
2000	297	12	175.52	4.6	-3.03	0
2000	297	13	176.08	5.51	-3.08	0
2000	297	14	162.75	4.56	-3.3	0
2000	297	15	153.03	3.6	-3.06	0
2000	297	16	147.99	2.7	-1.35	0
2000	297	17	156.24	1.93	0.49	0
2000	297	18	160.68	1.76	0.06	0
2000	297	19	181.49	2.35	0.03	0
2000	297	20	190.19	2.45	0.27	0
2000	297	21	179.95	1.59	0.71	0
2000	297	22	225.62	1.7	0.89	0
2000	297	23	286.13	1.74	1.44	0
2000	298	0	354.58	1.36	1.53	0
2000	298	1	307.63	1.9	0.67	0
2000	298	2	11.49	1.85	1.28	0
2000	298	3	353.85	2.13	1.05	0
2000	298	4	24.77	1.95	1.23	0
2000	298	5	201.96	1.55	0.29	0
2000	298	6	272.7	1.68	0.16	0
2000	298	7	212.82	1.58	-0.8	0
2000	298	8	203.39	3.69	-2.07	0
2000	298	9	168.63	2.83	-2.22	0
2000	298	10	170.45	3.38	-2.43	0
2000	298	11	213.49	3.94	-1.83	0
2000	298	12	156.05	7.31	-2.15	0
2000	298	13	194.31	5.23	-2.59	0
2000	298	14	173.21	4.75	-2.93	0
2000	298	15	171.45	3.6	-2.42	0
2000	298	16	158.96	2.17	-0.9	0
2000	298	17	139	1.67	1.56	0
2000	298	18	17.9	1.27	3.33	0
2000	298	19	355.54	1.56	2.85	0
2000	298	20	22.5	2.61	2.11	0
2000	298	21	17.64	2.73	3.21	0
2000	298	22	28.16	2.07	4.98	0

2000	298	23	25.76	2.56	6.45	0
2000	299	0	15.86	3.27	7.1	0
2000	299	1	27.8	5.72	8.21	0
2000	299	2	37.59	5.87	5.77	0
2000	299	3	39.08	4.52	4.25	0
2000	299	4	38.78	3.21	4.73	0
2000	299	5	25.35	4.91	4.44	0
2000	299	6	54.41	3.94	5.17	0
2000	299	7	41.14	3.44	4.64	0
2000	299	8	42.65	2.92	2.55	0
2000	299	9	98.28	2.13	-1.24	0
2000	299	10	254.46	1.96	-0.61	0
2000	299	11	240.44	1.98	-1.22	0
2000	299	12	199.4	3.52	-2.14	0
2000	299	13	192.17	4.91	-2.43	0
2000	299	14	188.56	5.29	-2.54	0
2000	299	15	173.76	4.24	-2.18	0
2000	299	16	168.36	2.92	-0.18	0
2000	299	17	184.01	2.45	1.55	0
2000	299	18	173.05	4.03	0.75	0
2000	299	19	167.47	3.55	0.5	0
2000	299	20	202.48	1.49	1.09	0
2000	299	21	20.28	1.24	1.72	0
2000	299	22	10.81	2.06	2.35	0
2000	299	23	11.27	1.94	3.13	0
2000	300	0	26.7	2.77	3.52	0
2000	300	1	26.75	2.93	3.35	0
2000	300	2	26.03	3.18	3.47	0
2000	300	3	22.34	1.38	2.94	0
2000	300	4	23.08	2.12	3.34	0
2000	300	5	23.5	2.13	3.1	0
2000	300	6	23.42	3.28	3.22	0
2000	300	7	59.79	1.9	2.88	0
2000	300	8	96.55	1.63	0.16	0
2000	300	9	186.75	3.43	-1.68	0
2000	300	10	184.97	4.07	-1.61	0
2000	300	11	201.02	4.66	-1.94	0
2000	300	12	221.01	4.79	-1.01	0
2000	300	13	182.03	4.66	-1.95	0
2000	300	14	161.53	4.19	-2.89	0
2000	300	15	156.25	3.06	-1.52	0
2000	300	16	165.54	2.23	0.24	0
2000	300	17	185.75	3.58	0.7	0
2000	300	18	181.46	2.38	1.32	0
2000	300	19	67.91	1.52	2.18	0
2000	300	20	7.57	1.66	3.01	0
2000	300	21	6.84	1.92	4.13	0
2000	300	22	9.81	1.92	3.94	0
2000	300	23	11.56	1.28	4.14	0

2000	301	0	25.55	2.5	4	0
2000	301	1	24.49	2.67	3.98	0
2000	301	2	31.72	3.3	4.39	0
2000	301	3	26.36	2.66	4.57	0
2000	301	4	23	3.19	4.45	0
2000	301	5	26.09	2.55	3.29	0
2000	301	6	26.81	2.77	3.5	0
2000	301	7	23.25	2.73	2.69	0
2000	301	8	55.76	2.27	1.81	0
2000	301	9	173.12	1.44	0.19	0
2000	301	10	106.78	1.73	-0.87	0
2000	301	11	219.88	1.91	-1.57	0
2000	301	12	222.29	2.3	-1.95	0
2000	301	13	237.32	3.34	-1.57	0
2000	301	14	222.13	2.42	-1.78	0
2000	301	15	205.55	2.25	-1.34	0
2000	301	16	186.32	1.18	0.06	0
2000	301	17	318.75	1.51	1.88	0
2000	301	18	35.44	3.75	3.93	0
2000	301	19	24.73	2.89	3.56	0
2000	301	20	16.97	3.54	3.92	0
2000	301	21	28.9	2.87	4.08	0
2000	301	22	25.94	3.29	4.64	0
2000	301	23	88.41	1.5	2.43	0
2000	302	0	25.46	2.52	3.32	0
2000	302	1	31.11	4.3	5.84	0
2000	302	2	48.41	4.77	5.4	0
2000	302	3	60.4	2.94	3.47	0
2000	302	4	19.36	3.33	1.15	0
2000	302	5	349.13	4.18	0.03	0
2000	302	6	7.97	8.81	-0.91	0
2000	302	7	10.52	9.68	-2.09	0
2000	302	8	7.87	12.39	-2.29	0
2000	302	9	5.63	12.35	-2.8	0
2000	302	10	2.89	11.7	-3.07	0
2000	302	11	2.16	11.36	-3.18	0
2000	302	12	5.4	12.1	-3.1	0
2000	302	13	6.52	13.8	-2.96	0
2000	302	14	357.52	13.25	-2.72	0
2000	302	15	353.84	10.46	-2.47	0
2000	302	16	0.58	10.92	-2.13	0
2000	302	17	346.43	8.58	-1.89	0
2000	302	18	332.96	8.44	-1.89	0
2000	302	19	341.54	7.28	-1.84	0
2000	302	20	342.1	5.96	-1.74	0
2000	302	21	342.99	6.41	-1.76	0
2000	302	22	339.43	5.61	-1.76	0
2000	302	23	325.2	4.94	-1.75	0
2000	303	0	332.34	5.37	-1.66	0

2000	303	1	346.65	4.69	-1.6	0
2000	303	2	330.69	4.66	-1.79	0
2000	303	3	322.17	4.85	-1.97	0
2000	303	4	332.05	4.4	-1.88	0
2000	303	5	337.54	5.02	-1.85	0
2000	303	6	336.78	6.4	-2.13	0
2000	303	7	340.76	7.06	-2.32	0
2000	303	8	331.22	6.31	-2.61	0
2000	303	9	328.52	7.01	-3.21	0
2000	303	10	334.15	6.01	-3.57	0
2000	303	11	337.44	5.85	-3.46	0
2000	303	12	338.59	6.83	-3	0
2000	303	13	4.11	9.09	-2.75	0
2000	303	14	11.68	8.96	-2.59	0
2000	303	15	345.7	7.29	-2.37	0
2000	303	16	341.62	5.45	-1.86	0
2000	303	17	351.37	7.34	-1.95	0
2000	303	18	356.78	10.07	-2.16	0
2000	303	19	348.88	9.88	-2.06	0
2000	303	20	349.08	9.1	-2.1	0
2000	303	21	350.1	8.21	-1.82	0
2000	303	22	338.07	6.59	-1.81	0
2000	303	23	343.76	5.67	-1.81	0
2000	304	0	298.9	3.29	-1.43	0
2000	304	1	281.13	3.5	-0.98	0
2000	304	2	321.12	3.59	-1.31	0
2000	304	3	346.17	5.3	-1.61	0
2000	304	4	312.76	4.55	-1.51	0
2000	304	5	309.49	2.93	-1.29	0
2000	304	6	335.01	4.77	-1.62	0
2000	304	7	350.03	8.64	-2.22	0
2000	304	8	1.17	13.41	-2.54	0
2000	304	9	358.43	12.56	-2.96	0
2000	304	10	1.96	13.04	-3.34	0
2000	304	11	1.97	13.71	-3.26	0
2000	304	12	359.66	11.53	-3.14	0
2000	304	13	2.02	9.21	-3	0
2000	304	14	8.26	8.51	-2.56	0
2000	304	15	9.72	9.32	-2.35	0
2000	304	16	9.44	10.14	-2.28	0
2000	304	17	6.36	8.56	-2.17	0
2000	304	18	4.8	9.92	-1.99	0
2000	304	19	359.04	10.11	-1.94	0
2000	304	20	353.35	10.62	-1.91	0
2000	304	21	344.2	7.46	-1.77	0
2000	304	22	349.74	7.19	-1.76	0
2000	304	23	348.34	5.17	-1.76	0
2000	305	0	352.46	9.18	-1.85	0
2000	305	1	350.36	8.89	-1.87	0

2000	305	2	350.4	11.2	-2	0
2000	305	3	357.06	13.16	-2.06	0
2000	305	4	351.8	11.47	-1.97	0
2000	305	5	352.08	11.73	-1.99	0
2000	305	6	1.48	11.77	-2.02	0
2000	305	7	2.97	11.5	-2.13	0
2000	305	8	1.35	10.13	-2.41	0
2000	305	9	358.4	11.47	-2.85	0
2000	305	10	4.01	11.62	-2.84	0
2000	305	11	357.58	9.73	-3.22	0
2000	305	12	3.09	12.45	-3.1	0
2000	305	13	359.17	12.81	-2.89	0
2000	305	14	0.53	12.62	-2.68	0
2000	305	15	11.39	11.6	-2.25	0
2000	305	16	12.72	9.34	-2.07	0
2000	305	17	8.83	8.35	-1.92	0
2000	305	18	13.41	10.33	-1.92	0
2000	305	19	12.77	10.11	-2	0
2000	305	20	10.18	10.2	-2.14	0
2000	305	21	0.13	8.81	-2.03	0
2000	305	22	7.77	9.18	-1.99	0
2000	305	23	355.95	8.98	-1.98	0
2000	306	0	3.95	11.2	-2	0
2000	306	1	6.97	9.65	-1.88	0
2000	306	2	9.75	10.34	-1.87	0
2000	306	3	9.47	8.4	-1.77	0
2000	306	4	11.25	8.21	-1.77	0
2000	306	5	12.42	9.9	-1.91	0
2000	306	6	12.72	10.69	-1.91	0
2000	306	7	8.9	10.31	-2.1	0
2000	306	8	3.67	10.78	-2.5	0
2000	306	9	356.13	12.26	-2.75	0
2000	306	10	355.18	10.72	-3.01	0
2000	306	11	358.78	12.82	-3.01	0
2000	306	12	0.42	13.42	-2.99	0
2000	306	13	358.1	12.02	-2.96	0
2000	306	14	353.87	10.91	-2.7	0
2000	306	15	358.18	10.76	-2.37	0
2000	306	16	6.13	8.27	-1.91	0
2000	306	17	14.75	7.32	-1.61	0
2000	306	18	13.33	10.23	-1.68	0
2000	306	19	12.34	11.09	-1.72	0
2000	306	20	11.97	11.71	-1.67	0
2000	306	21	15.32	12.2	-1.72	0
2000	306	22	12.62	8.97	-1.82	0
2000	306	23	359.6	8.58	-1.73	0
2000	307	0	8.84	10.75	-1.79	0
2000	307	1	14.6	9.99	-1.67	0
2000	307	2	11.3	9.75	-1.75	0

2000	307	3	10.46	11.21	-1.71	0
2000	307	4	10.92	10.09	-1.7	0
2000	307	5	21.65	8.51	-1.33	0
2000	307	6	17.39	12.9	-1.61	0
2000	307	7	23.54	8.45	-1.78	0
2000	307	8	13.65	8.62	-2.33	0
2000	307	9	10.19	10.33	-2.61	0
2000	307	10	5.03	10.91	-2.82	0
2000	307	11	0.31	10.42	-2.99	0
2000	307	12	2.22	9.4	-2.93	0
2000	307	13	0.14	10.64	-2.66	0
2000	307	14	0.82	9.73	-2.47	0
2000	307	15	5.54	7.78	-2.21	0
2000	307	16	12.5	8.25	-1.79	0
2000	307	17	9.49	8.51	-1.45	0
2000	307	18	9.78	8.36	-1.37	0
2000	307	19	15.45	7.85	-1.32	0
2000	307	20	19.03	7.3	-1.05	0
2000	307	21	7.57	8.8	-1.45	0
2000	307	22	7.83	9.7	-1.45	0
2000	307	23	12.96	10.87	-1.51	0
2000	308	0	15.83	11.09	-1.49	0
2000	308	1	11.65	11.42	-1.53	0
2000	308	2	15.15	9.14	-1.43	0
2000	308	3	10.4	5.71	-1.32	0
2000	308	4	15.7	6.52	-1.37	0
2000	308	5	9.68	7.28	-1.59	0
2000	308	6	12.09	6.64	-1.51	0
2000	308	7	8.6	7.52	-1.86	0
2000	308	8	9.66	7.36	-2.02	0
2000	308	9	7.04	7.69	-2.52	0
2000	308	10	353.33	6.05	-2.83	0
2000	308	11	349.95	5.66	-2.75	0
2000	308	12	358.64	6.2	-3.1	0
2000	308	13	7.32	6.32	-2.74	0
2000	308	14	25.87	4.39	-2.25	0
2000	308	15	350.29	3.01	-2	0
2000	308	16	1.15	3.52	-0.28	0
2000	308	17	24.24	4.07	1.03	0
2000	308	18	53.68	3.56	2.7	0
2000	308	19	46.43	2.55	3.38	0
2000	308	20	65.83	2.89	4.43	0
2000	308	21	16.96	3.26	3.87	0
2000	308	22	31.82	3.05	3.8	0
2000	308	23	26.85	2.83	3.08	0
2000	309	0	71.79	1.96	3.55	0
2000	309	1	55.42	1.98	1.23	0
2000	309	2	38.58	2.54	2.25	0
2000	309	3	39	5.81	2.73	0

2000	309	4	44.84	4.58	3.35	0
2000	309	5	34.48	6.21	3.72	0
2000	309	6	33.66	6.53	5.2	0
2000	309	7	60.75	2.78	3.13	0
2000	309	8	40.26	3.67	2.24	0
2000	309	9	21.7	2.81	0.06	0
2000	309	10	203.31	3.6	-1.41	0
2000	309	11	223.63	3.38	-1.72	0
2000	309	12	339.75	2.96	-1.81	0
2000	309	13	283.31	4.21	-2.86	0
2000	309	14	285.6	4.4	-2.55	0
2000	309	15	303.11	3.86	-2.11	0
2000	309	16	308.52	2.84	-1.41	0
2000	309	17	307.19	4.57	-1.58	0
2000	309	18	290.63	6.25	-1.69	0
2000	309	19	306.39	6.86	-1.84	0
2000	309	20	306.57	5.87	-1.78	0
2000	309	21	322.27	5.34	-1.7	0
2000	309	22	330.58	4.4	-1.75	0
2000	309	23	316.65	5.06	-1.96	0
2000	310	0	316.21	4.42	-1.83	0
2000	310	1	327.02	4.02	-1.7	0
2000	310	2	315.78	5.18	-1.77	0
2000	310	3	305.95	7.59	-1.77	0
2000	310	4	312.57	4.87	-1.77	0
2000	310	5	306.3	5.62	-1.75	0
2000	310	6	325.92	4.63	-1.65	0
2000	310	7	313.28	4.42	-1.86	0
2000	310	8	325.27	5.13	-2.45	0
2000	310	9	323.51	7.46	-2.85	0
2000	310	10	323.79	7.9	-2.93	0
2000	310	11	335.69	7.9	-2.54	0
2000	310	12	315.3	7.01	-2.88	0
2000	310	13	328.66	7.69	-2.88	0
2000	310	14	332.45	8.04	-3	0
2000	310	15	353.48	9.09	-2.3	0
2000	310	16	338.62	6.77	-2.07	0
2000	310	17	328.89	7.18	-1.92	0
2000	310	18	329.64	7.33	-2	0
2000	310	19	331.42	7.27	-2.01	0
2000	310	20	347.63	7.51	-1.97	0
2000	310	21	338.36	6.51	-2	0
2000	310	22	337.36	6.51	-1.96	0
2000	310	23	346.75	6.28	-1.83	0
2000	311	0	341.33	6.17	-1.7	0
2000	311	1	344.45	6.67	-1.66	0
2000	311	2	343.52	7.64	-1.68	0
2000	311	3	327.49	5.89	-1.6	0
2000	311	4	326.66	4.56	-1.61	0

2000	311	5	313.29	4.01	-1.52	0
2000	311	6	341.09	3.72	-1.4	0
2000	311	7	334.5	3.85	-1.87	0
2000	311	8	341.43	6.07	-2.51	0
2000	311	9	356.8	7.36	-2.78	0
2000	311	10	0.8	8.48	-3.03	0
2000	311	11	4.34	8.64	-3.27	0
2000	311	12	10.04	7.68	-3.18	0
2000	311	13	12.7	7.04	-2.92	0
2000	311	14	11.93	6.45	-2.69	0
2000	311	15	4.74	6.57	-2.51	0
2000	311	16	345.41	5.02	-1.88	0
2000	311	17	2.77	4.55	-1.61	0
2000	311	18	11.35	2.88	-0.97	0
2000	311	19	22.97	2.88	-0.33	0
2000	311	20	21.62	3.89	-0.52	0
2000	311	21	17.54	6.25	-1.34	0
2000	311	22	9.5	8.96	-1.89	0
2000	311	23	2.59	7.34	-1.78	0
2000	312	0	11.67	4.18	-1.66	0
2000	312	1	0.83	5.75	-1.69	0
2000	312	2	5.03	6.21	-1.66	0
2000	312	3	2.21	6.5	-1.72	0
2000	312	4	11.56	6.19	-1.56	0
2000	312	5	0.59	6.12	-1.63	0
2000	312	6	2.24	7.1	-1.72	0
2000	312	7	11.59	8.98	-2.04	0
2000	312	8	0.84	7.98	-2.35	0
2000	312	9	356.86	7.05	-2.76	0
2000	312	10	2.62	7.44	-3.03	0
2000	312	11	351.68	6.55	-3.32	0
2000	312	12	358.15	6.23	-2.87	0
2000	312	13	359.25	7.33	-2.61	0
2000	312	14	2.97	7.27	-2.56	0
2000	312	15	0.96	5.94	-2.48	0
2000	312	16	0.11	5.87	-1.86	0
2000	312	17	6.65	4.65	-1.57	0
2000	312	18	5.03	5.37	-1.65	0
2000	312	19	18.54	4.29	-1.42	0
2000	312	20	4.34	5.9	-1.67	0
2000	312	21	12.92	5.82	-1.39	0
2000	312	22	11.02	5.48	-1.45	0
2000	312	23	7.64	5.19	-1.31	0
2000	313	0	4.47	6.22	-1.74	0
2000	313	1	20.19	6.58	-1.74	0
2000	313	2	1.18	5.91	-1.74	0
2000	313	3	5.59	7.46	-1.78	0
2000	313	4	7.31	6.5	-1.7	0
2000	313	5	7.64	7.38	-1.85	0

2000	313	6	8.8	6.72	-1.75	0
2000	313	7	52.35	3.75	-1.43	0
2000	313	8	12.29	6.29	-2.36	0
2000	313	9	7.45	5.35	-2.29	0
2000	313	10	19.91	5.5	-2.26	0
2000	313	11	21.68	6.27	-2.26	0
2000	313	12	34.13	4.8	-2.25	0
2000	313	13	39.24	3.33	-2.36	0
2000	313	14	340.13	2.87	-1.86	0
2000	313	15	19	1.98	-2.05	0
2000	313	16	234.59	1.52	-1.05	0
2000	313	17	42.93	3.63	1.13	0
2000	313	18	34.75	4.71	1.96	0
2000	313	19	74.03	2.59	1.2	0
2000	313	20	50.05	2.74	2.79	0
2000	313	21	23.74	5.82	2.44	0
2000	313	22	24.1	4.91	1.03	0
2000	313	23	38.74	3.41	1.92	0
2000	314	0	47.87	2.36	2.3	0
2000	314	1	31	5.57	4.49	0
2000	314	2	32.93	4.91	4.2	0
2000	314	3	33.18	5.82	4.03	0
2000	314	4	29.67	4.45	2.12	0
2000	314	5	83.26	2.95	1.89	0
2000	314	6	67.12	3.07	2.37	0
2000	314	7	24.91	4.14	0.35	0
2000	314	8	36.23	3.04	0.21	0
2000	314	9	294.74	2.09	-0.57	0
2000	314	10	20.2	2.54	-1.3	0
2000	314	11	235.61	2.11	-0.57	0
2000	314	12	237.4	2.4	-1.92	0
2000	314	13	170.67	2.65	-2.24	0
2000	314	14	184.89	4.63	-1.74	0
2000	314	15	174.41	3.9	-0.63	0
2000	314	16	170.63	4.15	-1.07	0
2000	314	17	162.56	2.8	-1.21	0
2000	314	18	163.58	2.83	-1.48	0
2000	314	19	153.98	2.74	-1.31	0
2000	314	20	162.32	2.6	-0.82	0.03
2000	314	21	131.84	1.32	-0.57	0.01
2000	314	22	166.72	2.87	-0.76	0.01
2000	314	23	165.03	3.46	-1.03	0.1
2000	315	0	177.35	3.5	-0.87	0.01
2000	315	1	172.35	3.85	-1.04	0.05
2000	315	2	207.47	1.89	-0.94	0.03
2000	315	3	115.22	1.93	-1.04	0.26
2000	315	4	46.38	2.61	-1.28	0.25
2000	315	5	38.69	2.43	-1.14	0.01
2000	315	6	36.52	4.62	-1.49	0.07

1	1	355.05	2000	317	8	355.05	11	-2.49	0
1	1	353.43	2000	317	9	353.43	9.57	-2.56	0
1	1	356.75	2000	317	10	356.75	9.47	-2.83	0
1	1	0.76	2000	317	11	0.76	9.55	-3.16	0
1	1	353.27	2000	317	12	353.27	7.97	-3.31	0
1	1	346.62	2000	317	13	346.62	7.56	-3.15	0
1	1	341.83	2000	317	14	341.83	6.63	-2.86	0
1	1	353.94	2000	317	15	353.94	6.59	-2.49	0
1	1	12.25	2000	317	16	12.25	6.12	-2.15	0
1	1	16.7	2000	317	17	16.7	7.15	-1.99	0
1	1	8.64	2000	317	18	8.64	6.56	-1.97	0
1	1	5.89	2000	317	19	5.89	6.35	-1.93	0
1	1	356.57	2000	317	20	356.57	5.14	-1.84	0
1	1	353.71	2000	317	21	353.71	6.1	-1.87	0
1	1	357.26	2000	317	22	357.26	6.49	-1.88	0
1	1	0.18	2000	317	23	0.18	7.46	-1.92	0
1	1	2.23	2000	318	0	2.23	7.43	-1.97	0
1	1	4.87	2000	318	1	4.87	6.91	-1.91	0
1	1	1.48	2000	318	2	1.48	5.2	-1.91	0
1	1	19.79	2000	318	3	19.79	5.71	-1.78	0
1	1	4.78	2000	318	4	4.78	4.9	-1.83	0
1	1	3.53	2000	318	5	3.53	5.7	-1.95	0
1	1	21.63	2000	318	6	21.63	5.36	-1.84	0
1	1	13.68	2000	318	7	13.68	3.65	-1.99	0
1	1	12.72	2000	318	8	12.72	3.25	-2.05	0
1	1	23.39	2000	318	9	23.39	2.57	-2.05	0
1	1	48.52	2000	318	10	48.52	3.71	-2.12	0
1	1	22.37	2000	318	11	22.37	2.12	-2.15	0
1	1	152.27	2000	318	12	152.27	2.75	-2.21	0
1	1	192.1	2000	318	13	192.1	4.2	-2.25	0
1	1	161.66	2000	318	14	161.66	3.79	-2.34	0
1	1	154.01	2000	318	15	154.01	2.83	-2.02	0
1	1	159.74	2000	318	16	159.74	2.32	-1.59	0
1	1	128.75	2000	318	17	128.75	2.3	-1.23	0
1	1	143.25	2000	318	18	143.25	2.23	-1.2	0
1	1	107.61	2000	318	19	107.61	1.96	-1.22	0
1	1	158.46	2000	318	20	158.46	2.62	-1.09	0
1	1	156.61	2000	318	21	156.61	3.54	-1.59	0
1	1	158.6	2000	318	22	158.6	2.82	-1.49	0
1	1	187.38	2000	318	23	187.38	3.84	-1.51	0
1	1	149.81	2000	319	0	149.81	1.55	-1.37	0
1	1	159.99	2000	319	1	159.99	1.42	-1.12	0
1	1	58.52	2000	319	2	58.52	2.22	-1.17	0
1	1	56.62	2000	319	3	56.62	2.57	-1.12	0
1	1	71.63	2000	319	4	71.63	2.75	-0.83	0
1	1	74.75	2000	319	5	74.75	2.18	-1	0
1	1	81.4	2000	319	6	81.4	2.51	-0.76	0
1	1	107.94	2000	319	7	107.94	1.79	-1.09	0
1	1	140.77	2000	319	8	140.77	4.42	-1.3	0

1	1	172.77
1	1	130.45
1	1	139.44
1	1	157.56
1	1	157.82
1	1	133.14

2000	319	9	172.77	1.6	-0.64	0.07
2000	319	10	130.45	1.45	-1.29	0.01
2000	319	11	139.44	2.33	-1.36	0
2000	319	12	157.56	3.52	-1.32	0.01
2000	319	13	157.82	3.93	-1.53	0
2000	319	14	133.14	1.64	-1.51	0.01
2000	319	15	168.85	4.81	-1.16	0
2000	319	16	270.11	5.59	-1.47	0.11
2000	319	17	327.86	5.67	-1.7	0
2000	319	18	346.69	5.91	-1.62	0
2000	319	19	299.29	4.13	-1.53	0
2000	319	20	300.3	6.74	-1.8	0
2000	319	21	314.01	6.09	-1.96	0
2000	319	22	305.93	7	-2.22	0
2000	319	23	311.19	7.54	-1.99	0
2000	320	0	312.67	5.96	-1.87	0
2000	320	1	310.38	7.12	-1.84	0
2000	320	2	295.95	6.69	-1.78	0
2000	320	3	292.55	8.62	-1.63	0
2000	320	4	286.8	7.26	-1.65	0
2000	320	5	289.28	5.98	-1.63	0
2000	320	6	291.86	6.36	-1.72	0
2000	320	7	291.23	6.88	-1.9	0
2000	320	8	291.54	8.7	-2.17	0
2000	320	9	292.96	10.23	-2.45	0
2000	320	10	295.72	7.34	-2.63	0
2000	320	11	307.39	6.28	-2.32	0
2000	320	12	310.52	8.13	-2.68	0
2000	320	13	319.64	7.53	-2.98	0
2000	320	14	303.59	5.75	-2.58	0
2000	320	15	287	8.36	-2.13	0
2000	320	16	283.67	6.03	-1.76	0
2000	320	17	275.94	5.05	-1.64	0
2000	320	18	278.15	6.33	-1.52	0
2000	320	19	284.77	6.16	-1.46	0
2000	320	20	287.36	5.89	-1.47	0
2000	320	21	279.73	6.7	-1.52	0
2000	320	22	282.91	5.55	-1.5	0
2000	320	23	276.19	6.68	-1.49	0
2000	321	0	281.99	7.6	-1.38	0
2000	321	1	269.56	6	-1.5	0
2000	321	2	284.2	5.53	-1.52	0
2000	321	3	280.87	5.06	-1.45	0
2000	321	4	272.85	4.15	-1.3	0
2000	321	5	277.29	4.39	-1.55	0
2000	321	6	264.07	3.25	-1.72	0
2000	321	7	224.58	3.66	-1.64	0
2000	321	8	214.74	4.87	-2.44	0
2000	321	9	216.5	4.72	-2.52	0

2000	321	10	200.2	5.17	-2.6	0
2000	321	11	199.5	5.61	-2.66	0
2000	321	12	207.3	5.8	-2.81	0
2000	321	13	196.48	6.28	-2.92	0
2000	321	14	190.35	7.4	-2.51	0
2000	321	15	187.97	8.08	-2	0
2000	321	16	182.43	6.14	-1.74	0
2000	321	17	191.02	9.18	-1.75	0
2000	321	18	190.52	10.02	-1.78	0
2000	321	19	188.79	8.54	-1.77	0
2000	321	20	186.94	8.69	-1.76	0
2000	321	21	187.49	7.92	-1.68	0
2000	321	22	184.98	7.42	-1.65	0
2000	321	23	191.77	6.34	-1.7	0
2000	322	0	190.95	6.04	-1.69	0
2000	322	1	191.04	5.49	-1.64	0
2000	322	2	192.6	5.87	-1.6	0
2000	322	3	192.82	6.01	-1.54	0
2000	322	4	184.81	5.94	-1.37	0
2000	322	5	180.89	6.57	-0.84	0
2000	322	6	181.43	5.79	-0.45	0
2000	322	7	174.67	5.61	0.57	0
2000	322	8	172.32	6.06	-1.33	0
2000	322	9	193.94	7.08	-2.65	0
2000	322	10	276.36	9.15	-2.47	0
2000	322	11	268.1	8.08	-2.89	0
2000	322	12	270.77	8.47	-3.06	0
2000	322	13	282.45	9.01	-2.5	0
2000	322	14	293.63	7.88	-2.64	0
2000	322	15	294.36	7.46	-2.21	0
2000	322	16	301.92	6.62	-1.87	0
2000	322	17	293.95	8.87	-1.72	0
2000	322	18	291.47	9.07	-1.65	0
2000	322	19	299.55	7.61	-1.65	0
2000	322	20	297.93	8.21	-1.7	0
2000	322	21	302.15	5.76	-1.59	0
2000	322	22	297.38	4.44	-1.51	0
2000	322	23	278.64	5.35	-1.48	0
2000	323	0	287.17	5.2	-1.45	0
2000	323	1	286	5.3	-1.42	0
2000	323	2	286.35	5.54	-1.44	0
2000	323	3	278.08	4.19	-1.46	0
2000	323	4	278.26	4.56	-1.42	0
2000	323	5	281.37	5.32	-1.47	0
2000	323	6	277.93	5.59	-1.38	0
2000	323	7	279.76	5.85	-1.57	0
2000	323	8	295.51	8.05	-2.19	0
2000	323	9	303.49	6.17	-2.77	0
2000	323	10	304.66	7.57	-2.99	0

2000	323	11	295.8	6.86	-3.03	0
2000	323	12	286.21	6.78	-3.16	0
2000	323	13	273.47	6.25	-2.58	0
2000	323	14	276.86	6.94	-2.45	0
2000	323	15	258.8	6.5	-2.14	0
2000	323	16	259.35	5.57	-1.84	0
2000	323	17	239.73	5.04	-1.93	0
2000	323	18	259.4	5.81	-1.89	0
2000	323	19	267.7	4.37	-1.76	0
2000	323	20	255.55	4.9	-1.79	0
2000	323	21	233.79	3.38	-1.53	0
2000	323	22	239.24	3.25	-1.34	0
2000	323	23	197.17	2.93	-1.11	0
2000	324	0	191.1	3.38	-1.4	0
2000	324	1	187.4	3.66	-1.35	0
2000	324	2	233.83	2.57	-1.28	0
2000	324	3	256.77	4.33	-1.59	0
2000	324	4	261.58	4.82	-1.57	0
2000	324	5	296.13	6.61	-1.56	0
2000	324	6	292.01	4.77	-1.68	0
2000	324	7	309	3.98	-1.73	0
2000	324	8	289.05	3.81	-2.17	0
2000	324	9	303.16	4.42	-2.54	0
2000	324	10	307.64	5.3	-2.81	0
2000	324	11	299.11	4.16	-3.26	0
2000	324	12	318.62	3.06	-2.45	0
2000	324	13	162.4	3.05	-2.42	0
2000	324	14	167.01	3.27	-2.19	0
2000	324	15	199.31	3.43	-2.07	0
2000	324	16	205	2.37	-1.61	0
2000	324	17	213.31	1.84	-1.15	0
2000	324	18	152.09	1.72	-0.22	0
2000	324	19	160.34	2.09	-0.19	0
2000	324	20	52.98	1.91	0.46	0
2000	324	21	35.36	3.43	1.81	0
2000	324	22	49.59	3.2	2.27	0
2000	324	23	30.8	2.65	1.19	0
2000	325	0	35.32	3.57	2.25	0
2000	325	1	30.42	3.5	2.51	0
2000	325	2	38.62	2.57	1.82	0
2000	325	3	36.94	2.91	2.16	0
2000	325	4	26.51	2.38	2.03	0
2000	325	5	23.28	2.41	2.25	0
2000	325	6	45.06	2.14	1.49	0
2000	325	7	35.36	1.73	1.31	0
2000	325	8	128.16	1.33	0.08	0
2000	325	9	178.04	2.96	-2.15	0
2000	325	10	170.21	4.58	-2.73	0
2000	325	11	175.91	6.96	-3.01	0

2000	325	12	170.99	7.39	-3.07	0
2000	325	13	165.77	6.12	-3.05	0
2000	325	14	174.1	7	-2.57	0
2000	325	15	184.57	7.69	-2.02	0
2000	325	16	191.69	5.72	-1.54	0
2000	325	17	216.52	6.66	-1.82	0
2000	325	18	246.94	4.54	-1.81	0
2000	325	19	174.54	4.38	-1.4	0
2000	325	20	210.46	3.92	-1.44	0
2000	325	21	264.05	5.32	-1.63	0
2000	325	22	272.75	6.89	-1.7	0
2000	325	23	270.43	6.29	-1.79	0
2000	326	0	272.12	4.64	-1.62	0
2000	326	1	275.9	4.51	-1.56	0
2000	326	2	247.48	4.29	-1.62	0
2000	326	3	212.99	3.69	-1.34	0
2000	326	4	266.02	3.74	-1.51	0
2000	326	5	180.76	3.03	-1.27	0
2000	326	6	187.62	3.5	-1.03	0
2000	326	7	232.15	4.43	-1.63	0
2000	326	8	231.84	4.92	-2.18	0
2000	326	9	265.9	5.03	-2.46	0
2000	326	10	298.51	4.87	-2.86	0
2000	326	11	285.11	7.37	-2.99	0
2000	326	12	289.58	6.39	-3.12	0
2000	326	13	282	7.34	-2.63	0
2000	326	14	278.61	7.12	-2.52	0
2000	326	15	267.4	6.55	-2.31	0
2000	326	16	281.48	6.69	-1.89	0
2000	326	17	276.74	5.58	-1.69	0
2000	326	18	286.85	7.47	-1.81	0
2000	326	19	285.75	7.11	-1.75	0
2000	326	20	290.55	8.5	-1.79	0
2000	326	21	288.13	7.43	-1.74	0
2000	326	22	297.32	7.45	-1.8	0
2000	326	23	297.32	7.41	-1.82	0
2000	327	0	270.24	5.35	-1.72	0
2000	327	1	274.72	5.53	-1.75	0
2000	327	2	280.1	5.39	-1.78	0
2000	327	3	286.88	5.89	-1.76	0
2000	327	4	291.9	5.39	-1.73	0
2000	327	5	285.91	4.69	-1.74	0
2000	327	6	270.09	5.28	-1.71	0
2000	327	7	282.03	5.92	-1.83	0
2000	327	8	291.9	5.26	-2.1	0
2000	327	9	299.81	6.43	-2.23	0
2000	327	10	290.1	8.38	-2.48	0
2000	327	11	290.1	9.6	-2.84	0
2000	327	12	299.99	9.07	-2.93	0

2000	327	13	284.14	8.96	-3.13	0
2000	327	14	280.77	8.16	-2.78	0
2000	327	15	276.84	7.33	-2.43	0
2000	327	16	274.87	5.68	-1.86	0
2000	327	17	277.26	5.22	-1.65	0
2000	327	18	274.02	8.07	-1.83	0
2000	327	19	275.08	7.59	-1.84	0
2000	327	20	280.38	7.36	-1.78	0
2000	327	21	285.11	7.9	-1.81	0
2000	327	22	294.39	6	-1.82	0
2000	327	23	295.06	5.38	-1.75	0
2000	328	0	315.54	7.69	-1.91	0
2000	328	1	304.75	6.75	-1.89	0
2000	328	2	309.29	5.69	-1.88	0
2000	328	3	310.45	7.03	-2	0
2000	328	4	309.73	6.15	-2.01	0
2000	328	5	318.58	5.52	-1.78	0
2000	328	6	335.35	4.65	-1.77	0
2000	328	7	273.45	4.71	-1.96	0
2000	328	8	296.47	5.02	-2.51	0
2000	328	9	302.51	5.39	-2.83	0
2000	328	10	324.86	4.54	-2.88	0
2000	328	11	329.72	5.91	-3.06	0
2000	328	12	327.33	5.5	-3.15	0
2000	328	13	307.83	4.52	-3.15	0
2000	328	14	308.53	4.84	-3.06	0
2000	328	15	301.08	5.96	-2.68	0
2000	328	16	296.5	6.08	-1.99	0
2000	328	17	291.45	5.92	-1.75	0
2000	328	18	311.54	6.08	-1.93	0
2000	328	19	314.29	7.18	-2.06	0
2000	328	20	341.44	6.33	-1.96	0
2000	328	21	337.42	5.71	-1.89	0
2000	328	22	324.56	5.6	-1.79	0
2000	328	23	316.21	5.84	-1.75	0
2000	329	0	338.64	5.63	-1.78	0
2000	329	1	341.54	4.8	-1.73	0
2000	329	2	337.22	4.67	-1.58	0
2000	329	3	339.52	4.69	-1.76	0
2000	329	4	338.8	4.22	-1.81	0
2000	329	5	42.81	3.56	-0.91	0
2000	329	6	63.2	2.71	-0.38	0
2000	329	7	45.53	3.69	-0.07	0
2000	329	8	44.54	3.26	-1.27	0
2000	329	9	122.24	2.49	-2.22	0
2000	329	10	64.89	2.84	-2.3	0
2000	329	11	4.76	2.92	-2.41	0
2000	329	12	283.9	4.91	-3.15	0
2000	329	13	296.52	5.73	-3.07	0

2000	329	14	299.13	5.04	-2.88	0
2000	329	15	332.94	4.38	-2.38	0
2000	329	16	350.03	3.64	-1.81	0
2000	329	17	353.68	3.22	-1.6	0
2000	329	18	26.53	2.5	-1.03	0
2000	329	19	51.61	2.64	-1.26	0
2000	329	20	71.64	2.55	-0.97	0
2000	329	21	74.34	2.74	-0.41	0
2000	329	22	43.85	3.54	0.09	0
2000	329	23	41.03	3	0.56	0
2000	330	0	31.25	5.7	2.17	0
2000	330	1	38	4.58	1.86	0
2000	330	2	40.49	3.24	2.05	0
2000	330	3	31.4	6.13	2.7	0
2000	330	4	35.96	5.1	1.98	0
2000	330	5	35.32	4.37	2.01	0
2000	330	6	38.5	3.71	1.99	0
2000	330	7	47.79	3.3	1.42	0
2000	330	8	52.21	2.56	-0.55	0
2000	330	9	35.26	3.54	-1.5	0
2000	330	10	44.96	2.1	-2.02	0
2000	330	11	14.23	2.88	-2.21	0
2000	330	12	345.1	2.84	-2.2	0
2000	330	13	352.92	2.06	-2.1	0
2000	330	14	229.28	1.74	-2.15	0
2000	330	15	181.2	1.79	-1.74	0
2000	330	16	85.15	1.69	-1.5	0
2000	330	17	96.05	1.76	-1.64	0
2000	330	18	73.19	1.88	-1.71	0
2000	330	19	48.26	2.05	-1.58	0
2000	330	20	24.19	2.52	-1.22	0
2000	330	21	18.28	4.34	-1.44	0
2000	330	22	23.03	4.83	-1.68	0
2000	330	23	19.92	4.24	-1.64	0
2000	331	0	19.57	4.2	-1.67	0
2000	331	1	14.47	4.79	-1.64	0
2000	331	2	15.16	4.56	-1.54	0
2000	331	3	17.78	5.31	-1.71	0
2000	331	4	12.82	5.18	-1.64	0.01
2000	331	5	358.75	4.49	-1.38	0.03
2000	331	6	351.92	4.77	-0.22	0.03
2000	331	7	24.54	4.92	0.6	0.02
2000	331	8	60.38	4.58	-0.68	0.08
2000	331	9	60.33	4.41	-1.19	0.15
2000	331	10	77.25	5.08	-1.14	0.26
2000	331	11	127.69	4.29	-1.26	0.27
2000	331	12	78.9	3.68	-1.31	0.03
2000	331	13	23.89	4.17	-1.24	0.12
2000	331	14	358.66	3.42	-0.97	0.03

2000	331	15	353.01	4.38	-0.89	0
2000	331	16	18.33	6.86	-1.58	0
2000	331	17	17.19	7.11	-1.86	0
2000	331	18	9.74	4.99	-1.62	0
2000	331	19	11.74	5.38	-1.42	0
2000	331	20	13.54	3.76	-1.59	0
2000	331	21	6.68	3.06	-1.43	0
2000	331	22	18.12	3.18	-1.47	0
2000	331	23	135.22	1.53	-0.78	0
2000	332	0	133.81	1.8	0.03	0
2000	332	1	192.21	2.49	0.48	0
2000	332	2	147.58	2.2	1.56	0
2000	332	3	157.3	2.39	2.21	0
2000	332	4	168.35	1.99	1.14	0
2000	332	5	196.21	1.41	0.63	0
2000	332	6	160.49	1.53	0.23	0
2000	332	7	176.86	1.76	1.18	0
2000	332	8	156.91	2.34	0.71	0
2000	332	9	210.93	3.47	-1.16	0
2000	332	10	279.75	6.5	-1.89	0
2000	332	11	267.58	6.75	-1.94	0
2000	332	12	271.42	7.61	-2.12	0
2000	332	13	272.53	5.82	-2.11	0
2000	332	14	274.58	4.92	-1.85	0
2000	332	15	276.65	5.5	-1.79	0
2000	332	16	272.27	4.81	-1.55	0
2000	332	17	258.21	4.4	-1.45	0
2000	332	18	261.95	4.35	-1.51	0
2000	332	19	228.08	3.28	-1.49	0
2000	332	20	225.31	3.43	-1.45	0
2000	332	21	203.46	3.38	-1.57	0
2000	332	22	246.57	3.63	-1.57	0
2000	332	23	235.68	4	-1.54	0
2000	333	0	257	4.57	-1.5	0
2000	333	1	262.95	3.8	-1.38	0
2000	333	2	284.98	4.84	-1.38	0
2000	333	3	300.02	3.88	-1.5	0
2000	333	4	290.25	4.19	-1.37	0
2000	333	5	259.41	3.36	-1.25	0
2000	333	6	242.82	2.96	-1.27	0
2000	333	7	232.12	2.41	-0.87	0
2000	333	8	229.02	3.47	-1.48	0
2000	333	9	229.44	2.98	-2.04	0
2000	333	10	279.79	3.6	-2.25	0
2000	333	11	305.13	3.51	-2.37	0
2000	333	12	283.07	4.27	-2.19	0
2000	333	13	263.96	4.1	-1.94	0
2000	333	14	242.51	3.02	-1.98	0
2000	333	15	210.53	2.92	-1.98	0

2000	333	16	186.08	3.21	-1.52	0
2000	333	17	173.29	2.6	-1.05	0
2000	333	18	200.1	1.33	-0.64	0
2000	333	19	231.04	1.35	-0.49	0
2000	333	20	154.51	1.92	0.27	0
2000	333	21	191.07	2.9	0.2	0
2000	333	22	275.92	4.44	-1.08	0
2000	333	23	264.83	4.63	-1.26	0
2000	334	0	284	8.43	-1.41	0
2000	334	1	290.21	7.88	-1.51	0
2000	334	2	311.44	6.62	-1.65	0
2000	334	3	312.27	6.77	-1.72	0
2000	334	4	295.69	4.99	-1.54	0
2000	334	5	288.24	5.44	-1.25	0
2000	334	6	282.04	4.91	-1.02	0
2000	334	7	291.75	5.83	-0.82	0
2000	334	8	292.53	6.21	-2.06	0
2000	334	9	305.19	4.91	-2.49	0
2000	334	10	301.03	5.77	-2.5	0
2000	334	11	289.07	5.2	-3.1	0
2000	334	12	275.09	4.85	-3.1	0
2000	334	13	291.08	5.03	-2.58	0
2000	334	14	282.15	4.3	-2.06	0
2000	334	15	296.91	2.95	-1.98	0
2000	334	16	32.79	1.77	-1.26	0
2000	334	17	114.13	1.53	-0.26	0
2000	334	18	84.1	2.13	0.18	0
2000	334	19	336.31	2.12	0.05	0
2000	334	20	135.8	2.16	-0.82	0
2000	334	21	84.37	1.75	-0.91	0
2000	334	22	95.91	2.03	-0.52	0
2000	334	23	117.2	2.75	-0.98	0
2000	335	0	126.13	2.69	-1.39	0.01
2000	335	1	188.24	1.54	-1.52	0.02
2000	335	2	59.45	2.41	-1.64	0
2000	335	3	33.43	4.08	-1.65	0
2000	335	4	20.59	4.58	-1.71	0
2000	335	5	13.57	4.24	-1.9	0
2000	335	6	12.83	5.1	-1.96	0
2000	335	7	348.83	5.07	-2.1	0
2000	335	8	340.69	5.2	-2.05	0
2000	335	9	352.9	6.01	-2.09	0
2000	335	10	347.41	6.5	-2.25	0
2000	335	11	345.71	6.07	-2.56	0
2000	335	12	358.38	5.35	-2.13	0
2000	335	13	323.58	5.68	-2.11	0
2000	335	14	307.55	8.89	-2.67	0
2000	335	15	311.71	9.2	-2.28	0
2000	335	16	313.83	8.54	-1.98	0

2000	335	17	313.86	7.84	-1.87	0
2000	335	18	317.12	6.82	-1.87	0
2000	335	19	315.59	6.14	-1.87	0
2000	335	20	298.49	5.99	-1.94	0
2000	335	21	291.82	7.28	-1.94	0
2000	335	22	290.4	8.63	-1.87	0
2000	335	23	292.74	8.84	-1.92	0
2000	336	0	294.82	8.91	-1.88	0
2000	336	1	293.45	9.32	-1.82	0
2000	336	2	291.05	8.84	-1.72	0
2000	336	3	291.09	7.78	-1.68	0
2000	336	4	290.11	7.46	-1.81	0
2000	336	5	287.2	6.11	-1.8	0
2000	336	6	293.45	6.62	-1.84	0
2000	336	7	289.94	6.42	-1.9	0
2000	336	8	293.02	5.27	-2.25	0
2000	336	9	302.18	5.48	-3.06	0
2000	336	10	291.36	5.96	-3.33	0
2000	336	11	303.18	5.04	-2.99	0
2000	336	12	296.57	5.79	-3.03	0
2000	336	13	298.21	5.99	-3.03	0
2000	336	14	314.53	6.33	-2.81	0
2000	336	15	313.02	5.46	-2.39	0
2000	336	16	313.36	4.77	-2.07	0
2000	336	17	294.39	4.26	-1.79	0
2000	336	18	325.92	5.1	-1.8	0
2000	336	19	333.19	5.63	-1.88	0
2000	336	20	327.73	5.44	-1.88	0
2000	336	21	333.03	5.61	-2.02	0
2000	336	22	332.32	5.76	-2.15	0
2000	336	23	323.02	6.16	-2.25	0
2000	337	0	336.9	6.52	-2.14	0
2000	337	1	332.02	6.71	-2.06	0
2000	337	2	342.14	4.98	-1.92	0
2000	337	3	347.9	4.74	-1.88	0
2000	337	4	335.89	4.13	-1.79	0
2000	337	5	336.77	5.93	-1.92	0
2000	337	6	339.33	5.12	-1.87	0
2000	337	7	354.02	6.1	-1.88	0
2000	337	8	339.38	5.47	-2.29	0
2000	337	9	348.82	7.17	-2.79	0
2000	337	10	356.86	6.82	-2.86	0
2000	337	11	7.05	7.73	-3.02	0
2000	337	12	6.22	6.92	-2.87	0
2000	337	13	11.36	7.25	-2.89	0
2000	337	14	3.52	6.97	-2.7	0
2000	337	15	333.51	6.93	-2.33	0
2000	337	16	328.15	5.66	-1.86	0
2000	337	17	327.11	6.03	-1.83	0

2000	337	18	336.75	6.32	-1.84	0
2000	337	19	346.85	6.7	-1.89	0
2000	337	20	336.86	5.04	-1.88	0
2000	337	21	334.79	5.08	-1.94	0
2000	337	22	340.77	5.08	-1.92	0
2000	337	23	340.15	5.26	-1.94	0
2000	338	0	6.73	3.74	-1.6	0
2000	338	1	66.6	3.15	-0.45	0
2000	338	2	40.97	3.47	-0.96	0
2000	338	3	6.67	4.99	-1.84	0
2000	338	4	351.48	3.93	-1.72	0
2000	338	5	4.83	4.25	-1.72	0
2000	338	6	15.83	4.53	-1.65	0
2000	338	7	4.55	3.72	-1.78	0
2000	338	8	359.02	5.9	-2.31	0
2000	338	9	14.05	4.53	-2.41	0
2000	338	10	11.52	4.58	-2.54	0
2000	338	11	357.19	5.7	-3.02	0
2000	338	12	7.45	7.2	-3.11	0
2000	338	13	11.03	8.21	-2.88	0
2000	338	14	2.93	6.69	-2.75	0
2000	338	15	359.39	5.08	-2.22	0
2000	338	16	330.7	2.38	-1.46	0
2000	338	17	348.14	2.93	-0.96	0
2000	338	18	67.7	3.35	-0.22	0
2000	338	19	52.03	3.43	0.38	0
2000	338	20	38.28	4.91	1.66	0
2000	338	21	19.57	6.87	2.44	0
2000	338	22	11.22	7.18	0.98	0
2000	338	23	62.75	4.25	1.61	0
2000	339	0	12.97	7.33	0.55	0
2000	339	1	7.37	9.28	-0.88	0
2000	339	2	6.54	8.81	-0.92	0
2000	339	3	10.46	5.56	-1.29	0
2000	339	4	92.24	3.03	-0.34	0
2000	339	5	50.26	3.71	-1.14	0
2000	339	6	90.4	3.14	-0.64	0
2000	339	7	51.7	4.35	-0.74	0
2000	339	8	26.04	7.83	-1	0
2000	339	9	15.51	10	-1.64	0
2000	339	10	13.53	8.82	-2.36	0
2000	339	11	13.65	7.93	-2.69	0
2000	339	12	14.11	7.94	-2.22	0
2000	339	13	21.03	6.87	-2.45	0
2000	339	14	29.65	6.06	-1.99	0
2000	339	15	38.04	4.09	-1.62	0
2000	339	16	14.81	2.93	-0.77	0
2000	339	17	53.74	2.86	2.02	0
2000	339	18	34.99	5.24	4.55	0

2000	339	19	33	5.19	4.96	0
2000	339	20	32.46	4.22	5.38	0
2000	339	21	33.63	2.87	4.09	0
2000	339	22	32.2	3.23	4.97	0
2000	339	23	21.81	2.83	4.14	0
2000	340	0	23.24	2.06	3.64	0
2000	340	1	12.71	1.68	3.05	0
2000	340	2	8.39	1.5	2.72	0
2000	340	3	32.59	1.31	1.92	0
2000	340	4	23.78	1.52	1.02	0
2000	340	5	33.72	1.35	0.18	0
2000	340	6	4.21	1.4	0.19	0
2000	340	7	232.62	1.48	0.29	0
2000	340	8	256.91	1.87	-1.03	0
2000	340	9	181.7	6.17	-2.13	0
2000	340	10	164.57	4.5	-2.37	0
2000	340	11	173.78	6.05	-2.78	0
2000	340	12	176.86	7.44	-2.79	0
2000	340	13	221.19	8.51	-2.68	0
2000	340	14	252.69	6.94	-2.31	0
2000	340	15	232.31	5.48	-1.91	0
2000	340	16	211.3	6.57	-1.41	0
2000	340	17	199.37	6.28	-1.15	0
2000	340	18	259.42	6.94	-1.53	0
2000	340	19	283.71	7.69	-1.68	0
2000	340	20	292.38	7.53	-1.67	0
2000	340	21	310.15	8.25	-1.83	0
2000	340	22	303.36	6.89	-1.81	0
2000	340	23	305.02	8.43	-1.92	0
2000	341	0	294.6	7.33	-1.8	0
2000	341	1	297.95	6.52	-1.8	0
2000	341	2	295.43	6.5	-1.83	0
2000	341	3	293.01	5.45	-1.74	0
2000	341	4	298.13	6.63	-1.84	0
2000	341	5	302.32	5.57	-1.83	0
2000	341	6	289.07	5.89	-1.85	0
2000	341	7	285.05	5.47	-1.88	0
2000	341	8	305.82	6.04	-2.39	0
2000	341	9	302.9	6.49	-2.77	0
2000	341	10	307.58	5.98	-3.12	0
2000	341	11	301.01	5.16	-3.24	0
2000	341	12	281.49	5.16	-3.24	0
2000	341	13	275.71	4.18	-2.94	0
2000	341	14	284.08	5.41	-2.78	0
2000	341	15	273.78	5.01	-2.35	0
2000	341	16	213.28	3.59	-1.72	0
2000	341	17	195.38	3.83	-1.26	0
2000	341	18	192.9	4.41	-1.31	0
2000	341	19	191.81	3.59	-0.99	0

2000	341	20	186.37	4.79	-0.94	0
2000	341	21	185.03	3.69	-1.04	0
2000	341	22	184.45	3.24	-0.91	0
2000	341	23	176.11	3.56	-0.67	0
2000	342	0	168.62	2.99	-0.36	0
2000	342	1	154.74	2.22	-0.72	0
2000	342	2	187.07	5.77	-1.66	0
2000	342	3	188.54	5.43	-1.83	0
2000	342	4	192.41	5.44	-1.84	0
2000	342	5	191.82	5.85	-1.81	0
2000	342	6	212.9	4.49	-1.79	0
2000	342	7	252.86	6.25	-2.04	0
2000	342	8	257.07	5.67	-2.14	0
2000	342	9	269.46	5.67	-2.48	0
2000	342	10	284.94	7.34	-2.75	0
2000	342	11	278	7.61	-2.96	0
2000	342	12	309.92	7.05	-2.73	0
2000	342	13	313.19	6.9	-2.36	0
2000	342	14	285.95	8.1	-2.6	0
2000	342	15	316.44	6.78	-2.48	0
2000	342	16	321.63	5.71	-1.98	0
2000	342	17	304.01	4.3	-1.65	0
2000	342	18	314.59	4.16	-1.67	0
2000	342	19	304.74	3.72	-1.57	0
2000	342	20	311.64	3.71	-1.77	0
2000	342	21	306.68	3.23	-1.88	0
2000	342	22	307.15	2.93	-1.75	0
2000	342	23	4.68	2.36	-1.78	0
2000	343	0	25.4	3.32	-1.86	0
2000	343	1	98.38	2.1	-1.69	0
2000	343	2	93.6	2.33	-1.89	0
2000	343	3	71.78	2.99	-2.06	0
2000	343	4	72.7	2.43	-1.99	0
2000	343	5	80.2	2.06	-1.69	0
2000	343	6	44.1	3.22	-1.54	0
2000	343	7	38.92	4.42	-1.92	0
2000	343	8	36.2	4.78	-1.84	0
2000	343	9	29.71	4.4	-1.91	0
2000	343	10	26.79	4.81	-2.03	0
2000	343	11	24.74	5.75	-2.07	0
2000	343	12	16.68	4.83	-2.22	0
2000	343	13	11.08	5.11	-2.2	0
2000	343	14	20.29	4.14	-2.13	0
2000	343	15	18.32	4.31	-2.1	0
2000	343	16	37.77	4.42	-1.9	0
2000	343	17	5.39	3.9	-1.96	0
2000	343	18	36.4	4.56	-1.86	0
2000	343	19	6.39	4.79	-1.99	0
2000	343	20	5.15	4.76	-2.01	0

2000	343	21	26.71	4.01	-1.8	0
2000	343	22	64.37	2.97	-1.18	0
2000	343	23	24.49	3.68	-1.8	0
2000	344	0	83.22	2.23	-0.97	0
2000	344	1	102.81	2.26	-0.5	0
2000	344	2	352.08	3.28	-1.36	0
2000	344	3	271.26	4.64	-0.48	0
2000	344	4	287.61	5.01	-1.48	0
2000	344	5	288.95	3.68	-1.42	0
2000	344	6	323.66	4	-1.39	0
2000	344	7	68.83	2.79	1.98	0
2000	344	8	60.21	3.46	0.6	0
2000	344	9	354.59	7.16	-2.04	0
2000	344	10	2.68	7.72	-2.47	0
2000	344	11	4.92	7.41	-2.58	0
2000	344	12	0.68	6.07	-2.66	0
2000	344	13	35.78	6.37	-2.36	0
2000	344	14	40.87	5.89	-2.3	0
2000	344	15	21.33	3.83	-2.03	0
2000	344	16	64.17	2.67	-1.51	0
2000	344	17	69.7	2.47	-1.16	0
2000	344	18	41.93	3.1	-0.13	0
2000	344	19	24.72	4.16	0.42	0
2000	344	20	32.37	5.79	0.77	0
2000	344	21	37.47	5.25	0.69	0
2000	344	22	29.34	3.45	0.41	0
2000	344	23	13.72	3.35	0.08	0
2000	345	0	45.19	3.1	0.78	0
2000	345	1	33.75	3.87	1.76	0
2000	345	2	31.42	4	2.25	0
2000	345	3	28.3	4.25	2.58	0
2000	345	4	41.88	4.76	2.58	0
2000	345	5	37.82	5.39	2.69	0
2000	345	6	44.25	4.26	2.38	0
2000	345	7	37.4	3.38	2.25	0
2000	345	8	41.34	3.59	0.89	0
2000	345	9	28.77	3.89	-1.16	0
2000	345	10	25.69	2.56	-1.75	0
2000	345	11	355.16	2.92	-1.95	0
2000	345	12	340.82	2.57	-1.83	0
2000	345	13	340.53	2.95	-1.67	0
2000	345	14	354.96	2.31	-1.87	0
2000	345	15	22.96	2.14	-1.77	0
2000	345	16	23.02	2.16	-1.5	0
2000	345	17	30.08	2.08	-1.03	0
2000	345	18	35.6	4.15	-0.9	0
2000	345	19	37.99	4.08	-0.68	0
2000	345	20	43.87	4.27	-0.12	0
2000	345	21	64.25	2.71	0.12	0

2000	345	22	74.2	1.69	0.58	0
2000	345	23	72.03	1.65	1.02	0
2000	346	0	76.41	1.63	0.45	0
2000	346	1	60.59	2.19	-0.15	0
2000	346	2	40.71	2.85	-0.38	0
2000	346	3	39.99	5.88	-0.16	0
2000	346	4	35.88	4.28	0.1	0
2000	346	5	25.99	2.77	1.39	0
2000	346	6	76.19	2.07	3.57	0
2000	346	7	114.15	1.85	2.15	0
2000	346	8	118.87	1.91	-0.39	0
2000	346	9	77.95	2.94	-1.11	0
2000	346	10	14.94	3.85	-1.79	0
2000	346	11	34.61	5.2	-2.18	0
2000	346	12	57.73	4.13	-2.45	0
2000	346	13	63.47	3	-2.7	0
2000	346	14	149.25	2.93	-2.6	0
2000	346	15	191.33	2.5	-2.22	0
2000	346	16	123.84	1.98	-1.23	0
2000	346	17	42.42	2.92	-0.53	0
2000	346	18	42.82	4.23	-0.86	0
2000	346	19	78.32	2.37	-0.4	0
2000	346	20	111.94	1.46	-0.28	0
2000	346	21	98.93	1.51	-0.75	0
2000	346	22	210.85	2.41	-0.24	0
2000	346	23	197.41	2.56	0.36	0
2000	347	0	303.45	1.62	0.25	0
2000	347	1	163.78	2.36	1.53	0
2000	347	2	169.63	10.31	-0.37	0
2000	347	3	173.59	10.2	-0.85	0
2000	347	4	183.72	12.12	-1.17	0
2000	347	5	189.8	12.14	-1.13	0
2000	347	6	193.27	12.96	-1.29	0
2000	347	7	200.16	11.41	-0.85	0
2000	347	8	235.6	15.26	-1.37	0
2000	347	9	262.65	16.28	-1.64	0
2000	347	10	262.67	14.36	-1.92	0
2000	347	11	270.06	13.25	-2.21	0
2000	347	12	295.32	14.26	-2.51	0
2000	347	13	310.16	12.07	-2.69	0
2000	347	14	316.46	11.86	-2.57	0
2000	347	15	315.79	11.4	-2.41	0
2000	347	16	310.08	10.52	-2.07	0
2000	347	17	309.55	10.39	-2.04	0
2000	347	18	313.4	9.43	-2.05	0
2000	347	19	305.93	12.98	-2.25	0
2000	347	20	315.01	10.17	-2.12	0
2000	347	21	323.08	7.47	-2.11	0
2000	347	22	325.4	5.94	-2.03	0

2000	347	23	309.78	6.34	-1.88	0
2000	348	0	325.36	6.4	-1.98	0
2000	348	1	325.19	4.6	-1.88	0
2000	348	2	320.06	5.41	-2.07	0
2000	348	3	323.34	4.85	-1.9	0
2000	348	4	344.51	3.48	-1.76	0
2000	348	5	347.38	3.79	-1.81	0
2000	348	6	348.45	4.39	-1.91	0
2000	348	7	357.26	3.57	-1.95	0
2000	348	8	357.35	4.66	-2.38	0
2000	348	9	14.14	5.65	-2.46	0
2000	348	10	15.3	5.33	-2.5	0
2000	348	11	0.1	5.12	-2.88	0
2000	348	12	16.36	6.13	-2.77	0
2000	348	13	7.31	5.15	-2.64	0
2000	348	14	7.43	4.21	-2.37	0
2000	348	15	359.57	3.19	-2.15	0
2000	348	16	20.43	3.32	-2.01	0
2000	348	17	44.58	2.16	-1.94	0
2000	348	18	24.45	1.24	-1.76	0
2000	348	19	46.43	3.24	-1.8	0
2000	348	20	58.8	3.61	-1.8	0
2000	348	21	138.55	2.65	-1.33	0
2000	348	22	119.16	2.02	-1	0
2000	348	23	136.29	2.12	-1.07	0
2000	349	0	123.98	1.94	-1.63	0
2000	349	1	15.89	2.41	-1.56	0
2000	349	2	13.99	4.09	-1.74	0.02
2000	349	3	3.62	4.43	-1.59	0.11
2000	349	4	359.73	4.07	-1.26	0.03
2000	349	5	357.44	5.68	-1.68	0.14
2000	349	6	12.22	6.14	-1.81	0.23
2000	349	7	14.94	4.98	-1.38	0.17
2000	349	8	357.88	4.44	-1.38	0
2000	349	9	48.78	3.1	-0.81	0
2000	349	10	39.98	4.17	-0.72	0
2000	349	11	33.23	3.79	-1.62	0
2000	349	12	76.44	3.35	-1.64	0
2000	349	13	49.26	4.65	-0.19	0
2000	349	14	44.7	4.56	2.1	0
2000	349	15	84.68	3.11	2.74	0
2000	349	16	209.06	2.48	2.21	0
2000	349	17	253.96	3.78	-0.03	0
2000	349	18	256.89	5.36	-0.82	0
2000	349	19	294.06	6.4	-1.54	0
2000	349	20	311.5	8.19	-1.65	0
2000	349	21	318.08	6.73	-1.65	0
2000	349	22	328.76	6.89	-1.69	0
2000	349	23	324.93	5.73	-1.68	0

2000	350	0	331.7	6.91	-1.72	0
2000	350	1	325.27	6.03	-1.8	0
2000	350	2	309.33	4.93	-1.83	0
2000	350	3	324.19	4.87	-1.7	0
2000	350	4	330.63	4.85	-1.86	0
2000	350	5	23.5	7.88	-1.93	0
2000	350	6	13.47	7.54	-2	0
2000	350	7	3.49	6.9	-2	0
2000	350	8	8.83	7.25	-2.2	0
2000	350	9	8.33	7.11	-2.52	0
2000	350	10	6.69	7.21	-2.73	0
2000	350	11	5.87	7.21	-2.95	0
2000	350	12	353.8	6.16	-2.96	0
2000	350	13	342.13	4.83	-2.86	0
2000	350	14	344.22	4.61	-2.52	0
2000	350	15	343.19	4.13	-2.13	0
2000	350	16	5.27	3.06	-1.83	0
2000	350	17	35.98	3.77	-1.48	0
2000	350	18	80.58	2.82	-0.86	0
2000	350	19	51.98	2.45	-0.89	0
2000	350	20	51.95	3.17	-0.32	0
2000	350	21	138.23	2	-0.51	0
2000	350	22	81.06	2.45	-0.44	0
2000	350	23	47.67	3.7	-0.65	0
2000	351	0	33.74	5.1	-1.5	0
2000	351	1	73.39	1.28	-1.38	0
2000	351	2	53.75	2.71	-1.36	0
2000	351	3	4.06	2	-1.58	0
2000	351	4	30.41	2.42	-1.65	0
2000	351	5	10.66	2.23	-1.58	0
2000	351	6	10.53	2.84	-1.32	0
2000	351	7	305.26	2.31	-1.44	0
2000	351	8	16.8	4.4	-1.56	0
2000	351	9	349.29	3.2	-1.62	0
2000	351	10	351.01	3.14	-1.61	0
2000	351	11	355.12	3.5	-1.17	0
2000	351	12	338.75	2.23	-0.49	0
2000	351	13	16.94	2.08	-0.61	0
2000	351	14	11.63	2.16	-0.85	0
2000	351	15	125.71	2.33	-0.67	0
2000	351	16	351.97	2.13	-0.78	0.02
2000	351	17	10.38	2.86	0.27	0.01
2000	351	18	342.07	2.79	0.95	0
2000	351	19	357.96	3.42	0.45	0
2000	351	20	346.84	2.94	0.42	0.08
2000	351	21	25.73	3.65	1.59	0.03
2000	351	22	17.54	4.93	2.43	0
2000	351	23	10.91	4.35	1.07	0
2000	352	0	13.65	4.16	0.91	0

2000	352	1	17.98	3.39	1.16	0
2000	352	2	17.8	3.94	1.59	0.03
2000	352	3	1.83	2.26	2.64	0
2000	352	4	262.12	1.71	1.95	0
2000	352	5	182.93	5.83	2.02	0.02
2000	352	6	165.31	11.68	0.6	0.1
2000	352	7	171.97	18.29	0.5	0
2000	352	8	168.22	14.9	0.53	0.15
2000	352	9	170.02	10.86	0.52	0.4
2000	352	10	159.85	12.21	0.45	0.01
2000	352	11	164.55	15.24	0.62	0.07
2000	352	12	161.59	10.64	0.78	0.54
2000	352	13	154.55	5.3	1.06	0.07
2000	352	14	186.82	8.06	0.31	0
2000	352	15	173.29	8.03	-0.17	0.01
2000	352	16	158.64	5.31	-0.06	0
2000	352	17	180.1	7.89	-0.34	0
2000	352	18	224.25	5.96	-0.96	0
2000	352	19	283.58	15.24	-1.62	0
2000	352	20	287.82	13.84	-1.67	0.01
2000	352	21	234.21	7.49	-1.55	0
2000	352	22	240.25	9.3	-1.74	0
2000	352	23	261.06	10.12	-1.82	0
2000	353	0	255.62	10.62	-1.88	0
2000	353	1	247.99	7.01	-1.84	0
2000	353	2	221.5	7.83	-1.88	0
2000	353	3	234.45	7.39	-1.93	0
2000	353	4	239.45	7.11	-1.96	0
2000	353	5	227.07	7.66	-1.89	0
2000	353	6	260.65	6.71	-1.84	0
2000	353	7	273.1	6.8	-1.86	0
2000	353	8	271.86	6.67	-2.18	0
2000	353	9	307.9	7.8	-2.61	0
2000	353	10	300.11	8.1	-2.68	0
2000	353	11	290.05	8.72	-2.92	0
2000	353	12	292.19	6.98	-3.19	0
2000	353	13	291.9	6.34	-3.06	0
2000	353	14	288.57	6.94	-2.73	0
2000	353	15	283.85	4.75	-2.37	0
2000	353	16	308.85	3.65	-1.83	0
2000	353	17	292.87	3.34	-1.53	0
2000	353	18	235.59	2.07	-0.91	0
2000	353	19	194.58	2.49	-0.84	0
2000	353	20	199.84	2.85	-1.25	0
2000	353	21	117.72	2.37	-0.67	0
2000	353	22	116.61	1.76	-0.87	0
2000	353	23	65.11	1.95	-0.63	0
2000	354	0	12.09	2.1	0.29	0
2000	354	1	41.3	2.53	0.92	0

2000	354	2	4.44	2.65	0.6	0
2000	354	3	47.59	2.89	1.3	0
2000	354	4	39.58	4.37	1.37	0
2000	354	5	47.81	3.08	0.15	0
2000	354	6	38.89	2.48	-0.23	0
2000	354	7	16.43	2.97	-1.2	0
2000	354	8	71.45	1.52	-1.64	0
2000	354	9	166.5	1.46	-2.14	0
2000	354	10	209.46	2.21	-2.19	0
2000	354	11	131.47	1.82	-2.1	0
2000	354	12	344.96	2.01	-1.94	0
2000	354	13	358.89	3.19	-1.86	0
2000	354	14	355.84	2.73	-1.92	0
2000	354	15	353.17	3.55	-1.46	0
2000	354	16	12.17	4.93	-1.67	0
2000	354	17	18.29	5.16	-1.7	0
2000	354	18	10.1	6.23	-1.71	0
2000	354	19	10.39	6.23	-1.67	0
2000	354	20	10.78	7.14	-1.83	0
2000	354	21	13.52	7.16	-1.93	0
2000	354	22	9.38	8.49	-1.93	0
2000	354	23	8.47	9.72	-1.94	0
2000	355	0	11.67	10.72	-1.99	0
2000	355	1	355.36	9.19	-1.91	0
2000	355	2	0.33	7.47	-1.53	0
2000	355	3	6.11	4.96	-1.5	0.01
2000	355	4	346.04	6.06	-1.47	0
2000	355	5	337.48	7.43	-1.73	0
2000	355	6	326.52	5.3	-1.74	0
2000	355	7	313.75	7.37	-1.94	0
2000	355	8	294.36	8.63	-2.03	0
2000	355	9	296.17	9.45	-2.47	0
2000	355	10	295.77	8.36	-2.73	0
2000	355	11	288.43	10.36	-2.74	0
2000	355	12	291.04	9.92	-2.89	0
2000	355	13	295.83	10.66	-2.7	0
2000	355	14	306.79	8.77	-2.71	0
2000	355	15	309.33	9.43	-2.39	0
2000	355	16	300.33	8.57	-2.06	0
2000	355	17	301.54	6.46	-1.8	0
2000	355	18	303.68	6.52	-1.83	0
2000	355	19	277.42	5.12	-1.65	0
2000	355	20	261.68	3.8	-1.63	0
2000	355	21	264.34	3.96	-1.56	0
2000	355	22	279.69	4.94	-1.65	0
2000	355	23	304.18	7.09	-1.86	0
2000	356	0	314.71	3.41	-1.68	0
2000	356	1	264.44	3.36	-1.61	0
2000	356	2	141.39	2.36	-1.14	0

2000	356	3	333.85	3.11	-1.45	0
2000	356	4	31.07	3.96	-1.29	0
2000	356	5	33.76	4	0.03	0
2000	356	6	54.89	3.63	0.33	0
2000	356	7	43.35	2.28	-0.46	0
2000	356	8	46.38	2.65	-1.37	0
2000	356	9	10.97	2.77	-1.93	0
2000	356	10	222.76	2.82	-2.32	0
2000	356	11	172.94	4.15	-2.8	0
2000	356	12	173.6	3.64	-2.73	0
2000	356	13	177.36	4.56	-2.65	0
2000	356	14	166.92	5.22	-2.76	0
2000	356	15	168.37	5.16	-2.37	0
2000	356	16	175.79	6.23	-1.8	0
2000	356	17	168.14	5.8	-1.63	0
2000	356	18	189.47	5.73	-1.58	0
2000	356	19	194.99	2.67	-1.3	0
2000	356	20	193.28	2.64	-1.13	0
2000	356	21	190.88	5.32	-1.57	0
2000	356	22	196.26	3.19	-1.74	0
2000	356	23	175.54	3.73	-1.66	0
2000	357	0	179.96	3.23	-1.7	0
2000	357	1	166.58	1.91	-1.62	0
2000	357	2	132.46	1.85	-1.6	0
2000	357	3	145.52	1.99	-1.47	0
2000	357	4	219.94	2.64	-2.01	0
2000	357	5	207.47	1.98	-1.91	0
2000	357	6	197.18	2.63	-1.87	0
2000	357	7	180.14	3.08	-1.93	0
2000	357	8	201.04	2.81	-2.09	0
2000	357	9	234.19	1.93	-2.05	0
2000	357	10	26.6	2.3	-2.07	0
2000	357	11	29.7	2.12	-2.11	0
2000	357	12	328.36	1.91	-1.9	0
2000	357	13	250.08	1.8	-1.76	0
2000	357	14	286.54	3.31	-1.94	0
2000	357	15	318.73	4.16	-1.91	0
2000	357	16	286.91	5	-1.83	0
2000	357	17	279.98	4.21	-1.76	0
2000	357	18	289.4	6.7	-1.84	0
2000	357	19	301.8	9.42	-2.05	0
2000	357	20	313.24	10.31	-2.2	0
2000	357	21	325.28	10.42	-2.1	0
2000	357	22	316.19	9.32	-2.19	0
2000	357	23	306.37	9.84	-2.22	0
2000	358	0	314.23	11.11	-2.33	0
2000	358	1	315.36	11.5	-2.32	0
2000	358	2	295.76	9.25	-2.13	0
2000	358	3	320.61	4.62	-1.97	0

2000	358	4	303.38	4.46	-1.84	0
2000	358	5	317.27	4.71	-1.96	0
2000	358	6	341.99	4.85	-1.88	0
2000	358	7	355.75	4.65	-1.86	0
2000	358	8	319.57	6.22	-2.25	0
2000	358	9	317.39	7.12	-2.58	0
2000	358	10	308.12	6.22	-2.91	0
2000	358	11	304.44	5.64	-2.96	0
2000	358	12	290.85	6.39	-3.05	0
2000	358	13	282.42	7.06	-2.85	0
2000	358	14	293.97	7.49	-2.68	0
2000	358	15	307.12	6.71	-2.27	0
2000	358	16	283.52	3.4	-1.79	0
2000	358	17	252.82	2.95	-1.38	0
2000	358	18	231.61	4.09	-1.42	0
2000	358	19	235.52	2.8	-1.58	0
2000	358	20	274.84	2.36	-1.56	0
2000	358	21	257.48	2.05	-1.42	0
2000	358	22	168.16	2.37	-1	0
2000	358	23	233.88	3.49	-0.62	0
2000	359	0	255.58	3.41	-0.85	0
2000	359	1	180.66	3	-0.31	0
2000	359	2	156.81	2.55	-0.58	0
2000	359	3	87.46	2.29	-0.23	0
2000	359	4	99.67	2.23	-0.03	0
2000	359	5	353.48	1.77	-0.12	0
2000	359	6	28.6	2.55	0.47	0
2000	359	7	27.75	2.36	1.11	0
2000	359	8	5.5	2.12	0.69	0
2000	359	9	211.65	2.16	-1.83	0
2000	359	10	179.27	4.91	-2.73	0
2000	359	11	172.97	6.8	-2.68	0
2000	359	12	187.31	6.81	-2.65	0
2000	359	13	191.09	8.06	-2.49	0
2000	359	14	188.34	6.06	-2.59	0
2000	359	15	184.49	6.42	-2.18	0
2000	359	16	189.82	6.68	-1.62	0
2000	359	17	192.37	4.32	-1.5	0
2000	359	18	191.58	4.76	-0.88	0
2000	359	19	182.4	5.37	-0.52	0
2000	359	20	181.57	3.72	0.1	0
2000	359	21	184.95	3.11	0.8	0
2000	359	22	296.66	3.9	-1.04	0
2000	359	23	284.08	3.85	-1.56	0
2000	360	0	287	5.84	-1.48	0
2000	360	1	302.08	7.32	-1.71	0
2000	360	2	298.95	5.03	-1.68	0
2000	360	3	294.21	7.05	-1.72	0
2000	360	4	301.16	7.05	-1.76	0

2000	360	5	295.72	8.8	-1.85	0
2000	360	6	313.91	9.89	-1.92	0
2000	360	7	319.93	9.85	-2.07	0
2000	360	8	327.24	8.89	-2.22	0
2000	360	9	346.7	10.57	-2.47	0
2000	360	10	324.87	9.17	-2.69	0
2000	360	11	330.09	10.42	-2.74	0
2000	360	12	328.27	10.89	-2.53	0
2000	360	13	329.48	9.93	-2.66	0
2000	360	14	323.52	9.38	-2.77	0
2000	360	15	330.29	9.22	-2.38	0
2000	360	16	334.79	8.84	-2.12	0
2000	360	17	314.68	7.06	-2	0
2000	360	18	311.04	7.14	-1.97	0
2000	360	19	333.76	7.02	-1.97	0
2000	360	20	318.56	7.07	-1.96	0
2000	360	21	304.74	8.12	-1.96	0
2000	360	22	299.9	7.57	-1.88	0
2000	360	23	292.4	7.11	-1.83	0
2000	361	0	294.26	7.44	-1.81	0
2000	361	1	299.55	7.24	-1.86	0
2000	361	2	296.9	6.46	-1.78	0
2000	361	3	292.89	7.17	-1.68	0
2000	361	4	294.82	7.56	-1.7	0
2000	361	5	291.27	5.9	-1.73	0
2000	361	6	291.15	6.05	-1.61	0
2000	361	7	273.7	6.31	-1.65	0
2000	361	8	283.96	6.9	-2.02	0
2000	361	9	281.47	6.19	-2.54	0
2000	361	10	303.1	5.75	-2.81	0
2000	361	11	313.64	7.41	-2.67	0
2000	361	12	314.21	7.79	-2.72	0
2000	361	13	308.01	9.66	-2.66	0
2000	361	14	310.82	10.58	-2.45	0
2000	361	15	311.31	8.93	-2.3	0
2000	361	16	299.29	8.61	-1.86	0
2000	361	17	303.11	9.27	-1.81	0
2000	361	18	308.9	9.29	-1.81	0
2000	361	19	308.64	6.95	-1.69	0
2000	361	20	307.3	6.75	-1.65	0
2000	361	21	310.75	6.92	-1.71	0
2000	361	22	310.39	8.35	-1.72	0
2000	361	23	296.7	6.86	-1.65	0
2000	362	0	298.39	7.13	-1.61	0
2000	362	1	287.93	6.22	-1.59	0
2000	362	2	297.12	6.33	-1.63	0
2000	362	3	309.94	7.26	-1.65	0
2000	362	4	307.88	5.83	-1.65	0
2000	362	5	316.75	5.77	-1.71	0

2000	362	6	329.81	5.16	-1.67	0
2000	362	7	305.21	4.14	-1.88	0
2000	362	8	334.79	4.16	-2.04	0
2000	362	9	286.54	4.43	-2.17	0
2000	362	10	316.05	5.37	-2.78	0
2000	362	11	300.47	6.85	-3.05	0
2000	362	12	296.4	9.05	-3.03	0
2000	362	13	306.3	7.41	-3.03	0
2000	362	14	307.99	8.41	-2.56	0
2000	362	15	312.58	6.16	-2.37	0
2000	362	16	296.84	5.77	-1.91	0
2000	362	17	291.9	5.08	-1.69	0
2000	362	18	286.54	4.86	-1.73	0
2000	362	19	286.94	4.92	-1.54	0
2000	362	20	295.21	5	-1.75	0
2000	362	21	304.77	4.67	-1.87	0
2000	362	22	282.56	4.24	-1.86	0
2000	362	23	305.12	5.04	-2.03	0
2000	363	0	302.79	5.62	-2.05	0
2000	363	1	303.75	4.16	-1.92	0
2000	363	2	312.93	4.57	-1.99	0
2000	363	3	312.35	5.65	-2.06	0
2000	363	4	300.95	7.67	-2.15	0
2000	363	5	301.98	7.31	-2.1	0
2000	363	6	296.35	6.97	-1.97	0
2000	363	7	297.83	6.93	-2	0
2000	363	8	301.8	8.4	-2.39	0
2000	363	9	300.43	9.9	-2.93	0
2000	363	10	305.71	10.12	-3.22	0
2000	363	11	310.75	8.59	-3.16	0
2000	363	12	315.77	8.89	-3.14	0
2000	363	13	323.36	8.92	-3.06	0
2000	363	14	321.11	8.03	-2.92	0
2000	363	15	325.98	7.49	-2.6	0
2000	363	16	333.68	8.01	-2.09	0
2000	363	17	338.86	7.08	-2	0
2000	363	18	343.82	6.84	-2	0
2000	363	19	351.15	7.32	-2.09	0
2000	363	20	338.9	6.74	-2.1	0
2000	363	21	7.74	6.43	-2.08	0
2000	363	22	353	7.81	-2.05	0
2000	363	23	350.82	7.63	-2.07	0
2000	364	0	345.46	7.17	-2.13	0
2000	364	1	353.18	7.66	-2.12	0
2000	364	2	0.18	5	-1.95	0
2000	364	3	6.67	7.04	-2.01	0
2000	364	4	10.94	7.94	-2.09	0
2000	364	5	7.99	9.85	-2.16	0
2000	364	6	10.19	9.07	-2.02	0

2000	364	7	7.03	8.35	-2.06	0
2000	364	8	359.88	8.61	-2.23	0
2000	364	9	4.56	7.47	-2.55	0
2000	364	10	7.52	6.83	-2.83	0
2000	364	11	5.03	7	-2.97	0
2000	364	12	351.52	5.94	-2.87	0
2000	364	13	4.49	7.06	-2.98	0
2000	364	14	9.24	6.78	-2.77	0
2000	364	15	11.86	6.46	-2.37	0
2000	364	16	8.94	4.99	-2.09	0
2000	364	17	12.41	5.14	-2.01	0
2000	364	18	8.95	6.11	-2.01	0
2000	364	19	10.06	7.54	-2.12	0
2000	364	20	9.2	7.34	-2.16	0
2000	364	21	2.49	5.21	-2.1	0
2000	364	22	18.15	6.87	-2.12	0
2000	364	23	26.59	4.28	-1.89	0
2000	365	0	34.67	5.2	-1.54	0
2000	365	1	30.41	7.81	-1.36	0
2000	365	2	20.75	7.82	-1.93	0
2000	365	3	12.37	6.05	-1.99	0
2000	365	4	15.96	5.94	-2.09	0
2000	365	5	18.52	6.39	-1.92	0
2000	365	6	6.94	6.89	-1.52	0.05
2000	365	7	10.29	10.05	-1.34	0.04
2000	365	8	13.89	12.39	-1.81	0.03
2000	365	9	15.96	12.74	-1.82	0.05
2000	365	10	13.64	12.25	-1.9	0.06
2000	365	11	8.43	9.87	-1.65	0.07
2000	365	12	1.79	10.99	-0.88	0.12
2000	365	13	3.27	10.11	-0.46	0.1
2000	365	14	5.94	8.13	-1.57	0.06
2000	365	15	3.24	7.87	-1.34	0.03
2000	365	16	344.3	9.62	-1.21	0.04
2000	365	17	343.38	8.48	-1.4	0.01
2000	365	18	343.76	6.47	-1.63	0.01
2000	365	19	301.79	6.03	-1.97	0
2000	365	20	296.8	7.23	-2	0
2000	365	21	291.24	7.94	-1.88	0
2000	365	22	290.82	10.17	-1.87	0
2000	365	23	283.47	9.99	-1.73	0
2000	366	0	285.89	10.71	-1.78	0
2000	366	1	286.91	13.08	-1.85	0
2000	366	2	283.21	10.44	-1.86	0
2000	366	3	287.26	9.64	-1.82	0
2000	366	4	288.1	9.95	-1.7	0
2000	366	5	282.16	8.7	-1.61	0
2000	366	6	295.38	6.42	-1.68	0
2000	366	7	268.97	5.74	-1.74	0

2000	366	8	275.29	5.8	-1.96	0
2000	366	9	283	8.32	-2.07	0
2000	366	10	291.05	8.53	-2.35	0
2000	366	11	294.38	10.43	-2.32	0
2000	366	12	292.08	9.4	-2.44	0
2000	366	13	293.46	9.27	-2.5	0
2000	366	14	290.56	8.5	-2.44	0
2000	366	15	294.91	7.83	-2	0
2000	366	16	296.28	6.83	-1.69	0
2000	366	17	306.36	7.97	-1.58	0
2000	366	18	298.79	6.4	-1.66	0
2000	366	19	330.22	7.05	-1.76	0
2000	366	20	309.91	7.03	-1.74	0
2000	366	21	308.8	7.57	-1.76	0
2000	366	22	316.29	6.05	-1.72	0
2000	366	23	325.11	6.18	-1.66	0

31.9

ssing data =		0	0	0		
Day	Hour	Lower WD (from)	Lower WS (mph)	Precipitation (in)	Stability	DeltaT degC/100m
1	0	31.9	2.32	0	5	1.468253968
1	1	29.66	2.81	0	5	1.081349206
1	2	32.77	4.49	0	5	1.488095238
1	3	96.43	3.19	0	5	1.215277778
1	4	187.2	1.7	0	5	0.03968254
1	5	175.63	1.8	0	5	0.307539683
1	6	77.97	1.85	0	5	-0.367063492
1	7	218.1	1.45	0	5	-0.37202381
1	8	196.86	3.08	0	4	-0.625
1	9	202.17	4.32	0	4	-0.575396825
1	10	202.34	3.57	0	4	-0.550595238
1	11	183.4	3.1	0	4	-0.575396825
1	12	164.35	2.53	0	4	-0.694444444
1	13	300.35	2.27	0	4	-0.838293651
1	14	261.9	2.72	0	5	-0.33234127
1	15	246.98	1.6	0	5	0.143849206
1	16	286.28	1.45	0	5	0.87797619
1	17	204.08	1.6	0	6	1.964285714
1	18	310.33	1.73	0	6	2.400793651
1	19	348.35	2.06	0	6	2.703373016
1	20	359.94	2.7	0	6	2.916666667
1	21	9.81	3.26	0	6	3.601190476
1	22	13.56	3.61	0	6	3.363095238
1	23	46.79	2.66	0	6	3.060515873
2	0	23.84	3.26	0	6	2.867063492
2	1	25.31	2.72	0	6	2.137896825
2	2	45.45	1.83	0	6	1.820436508
2	3	95.07	1.04	0	6	1.626984127
2	4	16	1.06	0	6	2.762896825
2	5	22.82	1.06	0	5	1.418650794
2	6	3.68	1.27	0	6	2.331349206
2	7	121.78	1.2	0	5	0.679563492
2	8	32.8	2.33	0	5	1.453373016
2	9	189.69	2.8	0	5	0.426587302
2	10	176.65	2.19	0	5	0.421626984
2	11	210.97	2.52	0	5	-0.138888889
2	12	232.06	2.94	0	5	-0.262896825
2	13	226.42	3.69	0	5	0.783730159
2	14	171.34	4.42	0	5	-0.024801587
2	15	166.86	5.54	0	5	-0.009920635
2	16	167.5	3.63	0	5	0.396825397
2	17	202.79	2.4	0	5	0.709325397
2	18	190.12	2.91	0	6	1.636904762
2	19	179.05	2.8	0	6	1.636904762
2	20	279.5	2.15	0	6	2.341269841
2	21	126.36	2.1	0	6	2.390873016

Total rain (inch) = 30.31

2	22	162.96	4.63	0	5	0.486111111
2	23	172.88	7.93	0	5	0.798611111
3	0	171.64	8.06	0	5	-0.014880952
3	1	159.96	5.59	0	5	-0.01984127
3	2	166.46	7.36	0	5	-0.069444444
3	3	154.5	5.12	0	5	-0.054563492
3	4	151.76	4.88	0	5	0.064484127
3	5	152.14	3.06	0	5	0.362103175
3	6	169.43	3.56	0	5	0.540674603
3	7	200.1	2.76	0	5	0.892857143
3	8	179.06	3.8	0	5	1.388888889
3	9	170.53	2.88	0	5	0.639880952
3	10	181.1	2.56	0	5	0.362103175
3	11	219.38	3.1	0	5	-0.228174603
3	12	195.21	3.48	0	5	-0.3125
3	13	303.64	2.31	0	5	0.307539683
3	14	13.23	2.67	0	5	-0.138888889
3	15	228.19	1.84	0	5	-0.064484127
3	16	103.41	1.56	0	5	-0.01984127
3	17	26.96	3.3	0	5	0.466269841
3	18	16	2.72	0	5	0.68452381
3	19	38.67	2.03	0	5	0.525793651
3	20	357.23	2.01	0	5	0.486111111
3	21	116.33	1.96	0	5	0.089285714
3	22	21.45	1.88	0	5	-0.01984127
3	23	171.92	2.92	0	5	0.05952381
4	0	178.66	2.18	0	5	0.248015873
4	1	177.18	1.96	0	5	0.049603175
4	2	230.72	2.09	0	5	0.188492063
4	3	214.57	1.37	0	5	-0.213293651
4	4	225.84	1.21	0	5	-0.391865079
4	5	242.13	1.22	0	5	-0.29265873
4	6	153.28	1.34	0	5	-0.406746032
4	7	192.9	1.93	0	5	0.178571429
4	8	186.74	3.67	0	5	0.575396825
4	9	182.9	5.78	0	5	0.580357143
4	10	190.75	5.04	0	5	0.580357143
4	11	164.3	7.48	0	5	-0.069444444
4	12	155.71	7.86	0	5	-0.163690476
4	13	158.67	6.95	0	5	0.109126984
4	14	155.51	5.49	0	5	0.724206349
4	15	157.96	5.29	0	5	1.215277778
4	16	156.67	6.46	0	5	0.942460317
4	17	207.54	6.58	0.17	5	0.094246032
4	18	313.98	6.94	0.04	4	-0.654761905
4	19	358.58	4.24	0.03	4	-0.510912698
4	20	237.78	3.27	0.07	5	-0.451388889
4	21	217.27	3.04	0.02	5	-0.267857143
4	22	289.1	6.26	0.04	5	-0.401785714

4	23	321.07	5.14	0.01	4	-0.590277778
5	0	338.45	6.48	0	4	-0.823412698
5	1	323.55	7.81	0	4	-0.932539683
5	2	306.85	7.63	0	4	-0.9375
5	3	324.7	7.02	0	4	-0.922619048
5	4	318.64	8.06	0	4	-1.001984127
5	5	308.7	8.33	0	4	-1.026785714
5	6	313.41	7.3	0	4	-0.967261905
5	7	310.99	7.27	0	4	-0.942460317
5	8	317.97	8	0	4	-1.091269841
5	9	321.13	9.95	0	4	-1.240079365
5	10	322.17	9.51	0	4	-1.294642857
5	11	320.97	10.51	0	4	-1.413690476
5	12	328.56	9.91	0	4	-1.408730159
5	13	317.74	10.04	0	4	-1.478174603
5	14	314.41	8.34	0	4	-1.438492063
5	15	313.8	9.5	0	4	-1.28968254
5	16	336.86	7.9	0	4	-0.992063492
5	17	322.22	6.73	0	4	-0.902777778
5	18	322.52	5.29	0	4	-0.887896825
5	19	326.63	5.98	0	4	-0.942460317
5	20	318.15	4.52	0	4	-0.87797619
5	21	316.53	4.42	0	4	-0.838293651
5	22	335.01	4.21	0	4	-0.902777778
5	23	18.76	4.19	0	4	-0.793650794
6	0	19.38	5.72	0	4	-0.818452381
6	1	32.77	3.12	0	4	-0.674603175
6	2	72	2.96	0	5	-0.396825397
6	3	29.32	3.33	0	5	-0.307539683
6	4	23.73	3.29	0	5	0.064484127
6	5	40.17	3.13	0	5	0.178571429
6	6	54.4	3.31	0	5	0.099206349
6	7	27.57	2.48	0	5	-0.143849206
6	8	42.89	3.47	0	5	-0.233134921
6	9	144	2.35	0	4	-0.992063492
6	10	255.74	3.19	0	4	-0.932539683
6	11	180.09	4.88	0	4	-1.215277778
6	12	166.57	7.06	0	4	-1.488095238
6	13	158.49	5.93	0	4	-1.458333333
6	14	157.65	7.01	0	4	-1.359126984
6	15	159.93	7.18	0	4	-1.160714286
6	16	160.85	6.46	0	4	-0.68452381
6	17	163.23	5.22	0	5	-0.426587302
6	18	171.84	2.45	0	5	-0.193452381
6	19	29.02	1.53	0	5	0.158730159
6	20	163.43	1.43	0	5	0.922619048
6	21	56.01	1.99	0	6	1.671626984
6	22	38.19	2.01	0	5	1.498015873
6	23	8.23	1.9	0	5	0.947420635

7	0	8.73	2.04	0	5	1.111111111
7	1	4.19	2.45	0	5	0.952380952
7	2	9.75	1.54	0	5	0.987103175
7	3	356.31	1.24	0	5	0.892857143
7	4	91.05	1.07	0	5	0.868055556
7	5	12.42	1.2	0	5	0.734126984
7	6	10.04	1.56	0	5	0.773809524
7	7	359.6	1.22	0	5	0.391865079
7	8	32.78	0.84	0	5	0.034722222
7	9	326.6	0.84	0	5	-0.233134921
7	10	196.71	2.6	0	4	-0.674603175
7	11	137.35	1.98	0	4	-0.882936508
7	12	222.1	3	0	4	-0.763888889
7	13	190.27	3.85	0	4	-0.982142857
7	14	230.16	4.31	0	5	-0.29265873
7	15	285.36	11.52	0	4	-0.982142857
7	16	286.47	11.54	0	4	-0.863095238
7	17	301.09	8.64	0	4	-0.952380952
7	18	298.87	7.76	0	4	-0.868055556
7	19	296.29	6.26	0	4	-0.823412698
7	20	289.69	4.59	0	4	-0.788690476
7	21	313.51	4.1	0	4	-0.788690476
7	22	300.99	7.11	0	4	-0.873015873
7	23	314.45	7.17	0	4	-0.912698413
8	0	310.08	4.9	0	4	-0.833333333
8	1	281.48	5.2	0	4	-0.783730159
8	2	288.04	5.84	0	4	-0.833333333
8	3	294.56	4.99	0	4	-0.783730159
8	4	312.59	5.99	0	4	-0.858134921
8	5	313.5	6.06	0	4	-0.912698413
8	6	301.8	6.06	0	4	-0.907738095
8	7	281.44	5.32	0	4	-0.828373016
8	8	288.7	5.66	0	4	-1.006944444
8	9	299.65	5.63	0	4	-1.314484127
8	10	296.12	5.28	0	4	-1.398809524
8	11	291.88	4.28	0	4	-1.423611111
8	12	247.5	5.3	0	4	-1.488095238
8	13	230.47	4.53	0	4	-1.264880952
8	14	182.63	4.85	0	4	-1.28968254
8	15	181.91	6.26	0	4	-1.195436508
8	16	186.24	7.29	0	4	-0.729166667
8	17	184.25	7.67	0	4	-0.600198413
8	18	181.08	5.73	0	5	-0.481150794
8	19	172.24	4.66	0	5	-0.451388889
8	20	179.48	5.08	0	4	-0.535714286
8	21	182.54	4	0	4	-0.58531746
8	22	206.58	2.69	0	5	-0.3125
8	23	198.37	2.79	0	5	0.391865079
9	0	190.06	3.46	0	5	0.193452381

9	1	193.76	3.24	0	5	-0.386904762
9	2	186.69	3.01	0	5	-0.218253968
9	3	184.47	3.83	0	4	-0.510912698
9	4	206.92	1.76	0	5	-0.481150794
9	5	305.85	1.66	0	5	-0.25297619
9	6	287.55	1.23	0	5	0.01984127
9	7	352.32	1.57	0	5	-0.138888889
9	8	26.88	1.98	0	5	-0.158730159
9	9	337.04	1.88	0	4	-0.734126984
9	10	181.52	4.27	0	4	-1.086309524
9	11	192.08	3.67	0	4	-1.046626984
9	12	275.16	2.61	0	5	-0.198412698
9	13	289.6	3.24	0	5	-0.391865079
9	14	185.84	3.97	0	5	-0.406746032
9	15	159.32	3.08	0	4	-0.987103175
9	16	154.77	3.62	0	5	-0.014880952
9	17	159.48	2.97	0	5	0.004960317
9	18	288.54	1.81	0	5	0.079365079
9	19	283.56	1.79	0	5	0.282738095
9	20	82.5	1.99	0	5	0.317460317
9	21	12.8	1.63	0	5	-0.069444444
9	22	24.63	3.62	0.03	5	-0.034722222
9	23	179.08	1.87	0	5	-0.094246032
10	0	82.09	1.8	0	5	0
10	1	14.5	1.72	0	5	0.054563492
10	2	37.73	1.93	0	5	-0.084325397
10	3	11.75	2.44	0	5	0.138888889
10	4	19.96	2.31	0	5	-0.049603175
10	5	3.31	1.85	0	5	-0.386904762
10	6	18.91	2.77	0	5	-0.491071429
10	7	112.58	1.76	0	4	-0.590277778
10	8	97.61	2.17	0	4	-0.719246032
10	9	111.71	2.31	0	4	-0.763888889
10	10	129.21	2.89	0	4	-0.709325397
10	11	109.58	2.63	0	4	-0.724206349
10	12	103.71	3.93	0	4	-0.629960317
10	13	96.39	2.78	0.16	4	-0.580357143
10	14	97.4	6.11	0.26	4	-0.625
10	15	92.69	4.33	0.33	4	-0.58531746
10	16	327.62	3.43	0.1	5	-0.133928571
10	17	269.86	5.38	0.03	5	0.530753968
10	18	279.86	7.58	0	4	-0.620039683
10	19	231.21	4.47	0	4	-0.505952381
10	20	216.45	5.64	0	5	-0.307539683
10	21	231.09	7.58	0	5	-0.456349206
10	22	259.17	11.13	0	4	-0.629960317
10	23	255.66	8.34	0	4	-0.570436508
11	0	224.33	6.94	0	5	-0.461309524
11	1	193.53	9.4	0	5	-0.262896825

11	2	186.42	8.81	0	5	-0.431547619
11	3	180.71	8.29	0	5	-0.287698413
11	4	169.37	6.21	0	5	-0.208333333
11	5	170.55	6.36	0	5	-0.124007937
11	6	172.3	4.64	0	5	-0.124007937
11	7	167.8	3.37	0	5	0.109126984
11	8	185.9	2.49	0	5	0.029761905
11	9	179.47	2.49	0	4	-0.540674603
11	10	197.01	8.52	0	4	-0.972222222
11	11	216.94	11.47	0	4	-0.967261905
11	12	244.96	10.75	0	4	-0.922619048
11	13	257.41	8.51	0	4	-0.91765873
11	14	270.9	9.34	0	4	-0.962301587
11	15	294.74	7.28	0	4	-0.947420635
11	16	272.71	5.86	0	4	-0.654761905
11	17	270.23	5.84	0	4	-0.575396825
11	18	306.34	9.93	0	4	-0.818452381
11	19	292.17	10.52	0	4	-0.818452381
11	20	284.84	7.8	0	4	-0.749007937
11	21	279.22	7.77	0	4	-0.793650794
11	22	237.84	4.41	0	4	-0.709325397
11	23	260.33	4.8	0	4	-0.744047619
12	0	281.87	7.26	0	4	-0.828373016
12	1	297.3	8.66	0	4	-0.892857143
12	2	303.5	10.51	0	4	-0.947420635
12	3	300.71	10.04	0	4	-0.952380952
12	4	305.47	9.2	0	4	-0.982142857
12	5	307.93	12.83	0	4	-0.972222222
12	6	311.46	9.97	0	4	-0.9375
12	7	306.51	6.38	0	4	-0.882936508
12	8	316.45	6.43	0	4	-0.99702381
12	9	312.51	8.47	0	4	-1.130952381
12	10	309.48	11.67	0	4	-1.264880952
12	11	309.01	11.33	0	4	-1.319444444
12	12	312.12	9.04	0	4	-1.383928571
12	13	309.02	8.84	0	4	-1.378968254
12	14	319.58	7.13	0	4	-1.304563492
12	15	313.12	5.54	0	4	-1.180555556
12	16	323.72	4.89	0	4	-0.89781746
12	17	329.29	3.75	0	4	-0.694444444
12	18	341.59	4.11	0	4	-0.530753968
12	19	356.69	4.84	0	4	-0.679563492
12	20	335.56	3.62	0	4	-0.66468254
12	21	313.75	2.13	0	4	-0.500992063
12	22	278.45	2.17	0	5	-0.466269841
12	23	281.83	2.44	0	4	-0.649801587
13	0	239.71	2.84	0	4	-0.704365079
13	1	324.36	4.26	0	4	-0.853174603
13	2	14.08	3.64	0	4	-0.902777778

13	3	32.74	4.63	0	4	-0.868055556
13	4	40.78	3.6	0	4	-0.942460317
13	5	87.45	2.43	0	4	-0.858134921
13	6	60.38	3.75	0	4	-0.95734127
13	7	30.92	6.35	0	4	-1.031746032
13	8	34.35	4.85	0	4	-0.912698413
13	9	30.7	4.73	0	4	-0.763888889
13	10	18.61	5.1	0	4	-0.873015873
13	11	13.25	5.48	0	4	-0.912698413
13	12	4.52	6.06	0	4	-1.051587302
13	13	2.46	8.85	0.01	4	-1.041666667
13	14	6.45	11.45	0.01	4	-0.739087302
13	15	9.07	13.9	0	4	-0.922619048
13	16	5.11	10.6	0	4	-0.992063492
13	17	346.43	7.36	0	4	-0.982142857
13	18	340.43	7.14	0	4	-0.868055556
13	19	327.12	7.84	0	4	-0.962301587
13	20	315.06	8.68	0	4	-1.016865079
13	21	322.06	11.54	0	4	-1.076388889
13	22	322.54	11.96	0	4	-1.096230159
13	23	326.01	12.17	0	4	-1.071428571
14	0	325.69	10.51	0	4	-1.096230159
14	1	325.83	10.29	0	4	-1.051587302
14	2	324.48	10.37	0	4	-1.066468254
14	3	322.03	10.91	0	4	-1.066468254
14	4	333.43	10.75	0	4	-1.006944444
14	5	330.38	10.09	0	4	-1.021825397
14	6	334.5	9.51	0	4	-0.992063492
14	7	339.08	9.94	0	4	-0.992063492
14	8	339.49	10.83	0	4	-1.106150794
14	9	345.49	12.07	0	4	-1.220238095
14	10	344.98	12.19	0	4	-1.319444444
14	11	324.7	10.97	0	4	-1.428571429
14	12	313.61	9.05	0	4	-1.488095238
14	13	314.98	13.92	0	4	-1.359126984
14	14	312.71	12.32	0	4	-1.314484127
14	15	312.19	10.27	0	4	-1.225198413
14	16	322.71	8.44	0	4	-1.046626984
14	17	324.74	9.01	0	4	-0.97718254
14	18	330.76	7.4	0	4	-0.942460317
14	19	324.92	7.08	0	4	-0.947420635
14	20	334.41	6.97	0	4	-0.927579365
14	21	320.65	5.78	0	4	-0.907738095
14	22	323.46	5.5	0	4	-0.907738095
14	23	338.37	7.02	0	4	-0.89781746
15	0	336.46	7.45	0	4	-0.912698413
15	1	339.24	8.13	0	4	-0.912698413
15	2	333.84	9.41	0	4	-1.006944444
15	3	324.85	8.49	0	4	-0.97718254

15	4	321.7	8.34	0	4	-0.982142857
15	5	343.25	6.75	0	4	-0.902777778
15	6	49.09	5.23	0	4	-0.694444444
15	7	42.92	4.67	0	4	-0.595238095
15	8	36.24	5.82	0	4	-0.942460317
15	9	35.53	5.26	0	4	-0.992063492
15	10	34.06	2.72	0	4	-0.982142857
15	11	201.94	3.34	0	4	-1.121031746
15	12	201.23	3.98	0	4	-1.19047619
15	13	188.35	4.37	0	4	-1.220238095
15	14	177.72	2.86	0	4	-1.086309524
15	15	204.33	3.54	0	4	-1.096230159
15	16	183.09	1.92	0	4	-0.932539683
15	17	128.78	1.26	0	4	-0.625
15	18	139.64	1.8	0	5	-0.248015873
15	19	122.03	1.94	0	5	-0.228174603
15	20	119.39	1.99	0	5	-0.297619048
15	21	191.69	1.85	0	5	-0.381944444
15	22	192.03	2.17	0	5	-0.233134921
15	23	161.42	3.13	0	5	-0.376984127
16	0	169.27	3.12	0	5	-0.391865079
16	1	169.85	4.41	0	4	-0.580357143
16	2	190.43	6.43	0	4	-0.580357143
16	3	179.77	6.51	0	5	-0.367063492
16	4	183.73	7.66	0	4	-0.505952381
16	5	187.89	7.66	0	4	-0.590277778
16	6	199.39	5.34	0	5	-0.109126984
16	7	194.54	7.29	0	5	-0.183531746
16	8	183.05	10.29	0	4	-0.778769841
16	9	185.47	9.24	0	4	-0.838293651
16	10	190.83	7.97	0	4	-0.962301587
16	11	171.37	8.43	0	4	-1.299603175
16	12	178.6	6.66	0	4	-0.902777778
16	13	247.26	5.83	0	4	-0.947420635
16	14	288.73	8.02	0	4	-1.011904762
16	15	296.04	9.82	0	4	-0.972222222
16	16	311.68	14.41	0	4	-0.922619048
16	17	309.5	13.67	0	4	-0.902777778
16	18	314.13	14.5	0	4	-0.922619048
16	19	310.88	12.61	0	4	-1.016865079
16	20	305.86	11.76	0	4	-1.031746032
16	21	325.23	12.62	0	4	-1.021825397
16	22	335.6	16.21	0	4	-1.001984127
16	23	326.68	14.44	0	4	-1.056547619
17	0	326.58	14.78	0	4	-1.051587302
17	1	329.19	14.16	0	4	-1.041666667
17	2	332.33	13.22	0	4	-1.031746032
17	3	332.7	13.74	0	4	-1.036706349
17	4	328.94	12.44	0	4	-1.046626984

17	5	330.11	12.44	0	4	-1.066468254
17	6	323.1	13.48	0	4	-1.170634921
17	7	321.02	13.78	0	4	-1.264880952
17	8	325.74	13.56	0	4	-1.383928571
17	9	334.84	9.75	0	4	-1.349206349
17	10	347.37	10.12	0	4	-1.423611111
17	11	359.24	13.06	0	4	-1.493055556
17	12	357.84	15.23	0	3	-1.512896825
17	13	353.52	13.64	0	3	-1.517857143
17	14	7.68	12.84	0	4	-1.498015873
17	15	7.82	12	0	4	-1.458333333
17	16	1.09	11.41	0	4	-1.170634921
17	17	350.89	11.31	0	4	-1.046626984
17	18	356.03	9.92	0	4	-1.071428571
17	19	335.41	7.6	0	4	-1.031746032
17	20	335.67	7.25	0	4	-1.051587302
17	21	341.74	7.21	0	4	-1.026785714
17	22	343.16	8.79	0	4	-1.155753968
17	23	342	7.73	0	4	-1.140873016
18	0	2.04	7.6	0	4	-1.125992063
18	1	6.19	8.45	0	4	-1.071428571
18	2	10.67	7.55	0	4	-1.096230159
18	3	12.37	8.93	0	4	-1.111111111
18	4	5.15	9.27	0	4	-1.116071429
18	5	356.62	10.06	0	4	-1.180555556
18	6	358.4	9.37	0	4	-1.096230159
18	7	352.17	8.84	0	4	-1.160714286
18	8	358.62	12.38	0	4	-1.304563492
18	9	8.2	10.11	0	4	-1.443452381
18	10	7.56	10.48	0	4	-1.433531746
18	11	8.42	9.72	0	4	-1.443452381
18	12	14.58	9.49	0	4	-1.498015873
18	13	10.54	9.95	0	4	-1.443452381
18	14	7.81	7.42	0	4	-1.314484127
18	15	7.5	7.68	0	4	-1.245039683
18	16	4.55	6.59	0	4	-1.116071429
18	17	1.36	7.29	0	4	-1.086309524
18	18	4	7.3	0	4	-1.101190476
18	19	358.82	7.32	0	4	-1.130952381
18	20	354.5	5.73	0	4	-1.086309524
18	21	351.72	6.61	0	4	-1.086309524
18	22	348.46	5.88	0	4	-1.051587302
18	23	354.04	5.69	0	4	-1.011904762
19	0	352.33	5.8	0	4	-0.967261905
19	1	11.84	5.87	0	4	-0.887896825
19	2	2.28	7.29	0	4	-0.987103175
19	3	1.82	5.68	0	4	-1.001984127
19	4	2.89	5.96	0	4	-1.026785714
19	5	354.89	8.17	0	4	-1.046626984

19	6	2.36	7.75	0	4	-1.076388889
19	7	4.09	9.07	0	4	-1.076388889
19	8	4.63	9.28	0	4	-1.056547619
19	9	25.25	7.47	0	4	-1.125992063
19	10	16.08	6.88	0	4	-1.304563492
19	11	13.75	6.1	0	4	-1.314484127
19	12	5.14	5.68	0	4	-1.274801587
19	13	9.53	4.63	0	4	-1.185515873
19	14	0.21	4.74	0	4	-1.215277778
19	15	320.38	4.74	0	4	-1.200396825
19	16	276.31	5.85	0	4	-1.021825397
19	17	278.08	5.05	0	4	-0.808531746
19	18	307.05	4.42	0	4	-0.808531746
19	19	346.16	2.81	0	4	-0.56547619
19	20	354.67	2.9	0	5	-0.391865079
19	21	47.42	2.72	0	5	0.411706349
19	22	6.52	2.4	0	5	0.892857143
19	23	36.45	3.66	0	5	1.165674603
20	0	33.67	2.54	0	5	1.23015873
20	1	39.97	2.41	0	5	0.659722222
20	2	26.41	3.45	0	5	0.639880952
20	3	21.85	3.78	0	5	0.540674603
20	4	33.06	3.76	0	5	0.223214286
20	5	31.02	3.97	0	5	-0.168650794
20	6	26.38	3.57	0	5	-0.37202381
20	7	29.07	3.76	0	4	-0.590277778
20	8	10.65	2.73	0	4	-0.729166667
20	9	21.59	4.24	0.01	4	-0.763888889
20	10	19.81	4.68	0.01	4	-0.768849206
20	11	25.55	6.24	0	4	-0.892857143
20	12	31.41	7	0	4	-0.922619048
20	13	22.92	7.35	0	4	-0.942460317
20	14	27.1	7.38	0	4	-0.887896825
20	15	8.1	5.34	0	4	-0.843253968
20	16	6.06	5.38	0	4	-0.87797619
20	17	5.88	5.54	0	4	-0.892857143
20	18	5.32	6.51	0	4	-0.89781746
20	19	353.09	6.94	0	4	-0.927579365
20	20	4.62	8.62	0	4	-0.9375
20	21	356.2	6.9	0	4	-0.89781746
20	22	5.5	7.1	0	4	-0.902777778
20	23	343.7	6.21	0	4	-0.912698413
21	0	330.86	7.81	0	4	-0.927579365
21	1	322.1	8.73	0	4	-0.87797619
21	2	316.86	11.42	0	4	-0.927579365
21	3	318.18	12.4	0	4	-1.026785714
21	4	315.11	13.17	0	4	-1.026785714
21	5	322.54	12.56	0	4	-1.001984127
21	6	323.26	11.81	0	4	-0.99702381

21	7	323.77	10.67	0	4	-0.992063492
21	8	318.3	11.21	0	4	-1.135912698
21	9	321.86	9.56	0	4	-1.245039683
21	10	325.18	8.67	0	4	-1.339285714
21	11	314.98	13.88	0	4	-1.398809524
21	12	318.18	13.6	0	4	-1.383928571
21	13	311.83	13.32	0	4	-1.433531746
21	14	312.84	11.91	0	4	-1.364087302
21	15	307.77	13.08	0	4	-1.284722222
21	16	314.6	12.34	0	4	-1.121031746
21	17	307.27	11.92	0	4	-1.061507937
21	18	311.95	11.24	0	4	-1.006944444
21	19	316.59	10.42	0	4	-0.992063492
21	20	317.9	9.83	0	4	-0.962301587
21	21	318.94	10.43	0	4	-1.011904762
21	22	314.93	9.72	0	4	-1.096230159
21	23	314.95	8.08	0	4	-1.016865079
22	0	316.08	6.29	0	4	-0.902777778
22	1	312.87	6.16	0	4	-0.868055556
22	2	303.26	5.97	0	4	-0.863095238
22	3	281.07	5.68	0	4	-0.858134921
22	4	275.2	6.15	0	4	-0.89781746
22	5	283.91	6.56	0	4	-0.873015873
22	6	289.72	5.18	0	4	-0.873015873
22	7	292.92	5.79	0	4	-0.887896825
22	8	300.93	7.28	0	4	-1.081349206
22	9	322.44	6.96	0	4	-1.145833333
22	10	320.57	9.23	0	4	-1.264880952
22	11	305.04	9.01	0	3	-1.52281746
22	12	312.04	9.66	0	4	-1.483134921
22	13	309.89	8.78	0	3	-1.52281746
22	14	304.27	8.86	0	4	-1.418650794
22	15	295	7.06	0	4	-1.334325397
22	16	280.59	6.87	0	4	-1.051587302
22	17	292.53	5.64	0	4	-0.882936508
22	18	324.86	5.59	0	4	-0.882936508
22	19	327.66	4.88	0	4	-0.882936508
22	20	295.75	3.22	0	4	-0.838293651
22	21	247.24	3.01	0	4	-0.882936508
22	22	243.52	3.44	0	4	-0.89781746
22	23	235.35	2.5	0	4	-0.813492063
23	0	263.68	2.93	0	4	-0.818452381
23	1	227.78	2.95	0	4	-0.793650794
23	2	192.51	3.09	0	4	-0.709325397
23	3	237.7	1.48	0	4	-0.689484127
23	4	34.38	3.28	0	5	0.024801587
23	5	33.99	5	0	5	0.704365079
23	6	31.13	5.24	0	5	0.823412698
23	7	32.14	6.87	0	5	0.431547619

23	8	38.63	5.73	0	5	0.104166667
23	9	45.2	4.25	0	5	-0.471230159
23	10	13.96	2.05	0	4	-0.763888889
23	11	358.22	2.02	0	4	-0.87797619
23	12	12.9	2.66	0	4	-0.932539683
23	13	274.48	3.18	0	4	-1.006944444
23	14	252.91	3.07	0	4	-1.001984127
23	15	199.77	3.48	0	4	-1.011904762
23	16	169.74	3.34	0	4	-0.95734127
23	17	131	2.72	0	4	-0.927579365
23	18	94.15	2.53	0	4	-0.927579365
23	19	114.05	1.87	0	4	-0.91765873
23	20	63.52	1.45	0	4	-0.932539683
23	21	67.61	1.89	0	4	-0.887896825
23	22	37.24	2.51	0	4	-0.89781746
23	23	32.15	3.86	0	4	-0.882936508
24	0	32.3	4.47	0	4	-0.843253968
24	1	44.87	3.84	0	4	-0.793650794
24	2	38.56	4.08	0	4	-0.892857143
24	3	26.53	3.91	0	4	-0.803571429
24	4	6.89	5.03	0	4	-0.932539683
24	5	9.92	4.68	0	4	-0.763888889
24	6	62.86	2.86	0	4	-0.525793651
24	7	67.3	2.21	0	4	-0.719246032
24	8	172.43	2.19	0	4	-0.753968254
24	9	176.58	2.09	0	4	-0.922619048
24	10	181.39	2.67	0	4	-0.982142857
24	11	175.35	2.27	0	4	-1.006944444
24	12	213.76	3.23	0	4	-0.863095238
24	13	227.11	3.2	0	4	-0.56547619
24	14	190.7	2.98	0	4	-0.778769841
24	15	272.35	1.98	0	4	-0.91765873
24	16	301.88	1.66	0	5	-0.411706349
24	17	13.16	2.8	0	5	-0.302579365
24	18	29.54	4.58	0	5	0.530753968
24	19	18.73	4.94	0	5	-0.178571429
24	20	7.64	6.78	0	4	-0.689484127
24	21	13.16	6.99	0	4	-0.887896825
24	22	4.63	7.53	0	4	-0.89781746
24	23	8.03	8.89	0	4	-0.932539683
25	0	10.95	9.63	0	4	-1.001984127
25	1	9.23	9.27	0	4	-1.031746032
25	2	9.28	10.37	0	4	-1.056547619
25	3	4.98	10	0	4	-1.076388889
25	4	7.93	11.85	0	4	-1.081349206
25	5	12.27	12.08	0	4	-1.086309524
25	6	5.94	10.69	0.01	4	-0.783730159
25	7	3.95	12.07	0.06	5	-0.3125
25	8	7.93	13.26	0.06	5	-0.25297619

25	9	5.53	15.13	0.01	5	-0.233134921
25	10	11.52	16.08	0	4	-0.560515873
25	11	6.79	15.67	0	4	-0.729166667
25	12	13.02	15.39	0	4	-0.714285714
25	13	11.82	13.92	0	4	-0.734126984
25	14	4.78	13.5	0	4	-0.620039683
25	15	2.6	15.95	0	5	-0.481150794
25	16	6.1	15.5	0	5	-0.406746032
25	17	5.19	15.89	0.03	5	-0.436507937
25	18	5.74	15.86	0	5	-0.446428571
25	19	7.93	17.74	0.06	5	-0.436507937
25	20	7.69	17.27	0	5	-0.297619048
25	21	8.08	17.84	0.01	5	-0.233134921
25	22	6.61	15.47	0	5	-0.218253968
25	23	6.01	15.09	0	5	-0.233134921
26	0	357.1	9.11	0	5	-0.461309524
26	1	339.7	7.11	0	4	-0.505952381
26	2	328.05	5.47	0	4	-0.590277778
26	3	313.17	6.03	0	4	-0.749007937
26	4	308.66	5.78	0	4	-0.853174603
26	5	314.34	8.31	0	4	-1.016865079
26	6	322.47	7.42	0	4	-1.006944444
26	7	324.88	6.02	0	4	-0.972222222
26	8	307.8	4.8	0	4	-1.071428571
26	9	288.91	4.46	0	4	-1.170634921
26	10	320.93	6.83	0	4	-1.205357143
26	11	333.75	7.57	0	4	-1.284722222
26	12	331.64	8.46	0	4	-1.349206349
26	13	326.84	7.57	0	4	-1.364087302
26	14	329.27	7.57	0	4	-1.304563492
26	15	335.64	7.8	0	4	-1.160714286
26	16	327.13	5.55	0	4	-0.987103175
26	17	309.47	4.8	0	4	-0.853174603
26	18	308.52	7.04	0	4	-1.071428571
26	19	324.93	5.61	0	4	-0.97718254
26	20	334.08	6.48	0	4	-0.947420635
26	21	336.71	6.4	0	4	-0.97718254
26	22	333.16	6.92	0	4	-0.97718254
26	23	333.04	6.61	0	4	-0.95734127
27	0	329.23	6.11	0	4	-1.001984127
27	1	329.88	5.2	0	4	-0.982142857
27	2	333.52	5.71	0	4	-0.912698413
27	3	340.99	5.89	0	4	-0.932539683
27	4	323.54	5.61	0	4	-1.006944444
27	5	318.66	6.92	0	4	-1.111111111
27	6	325.77	7.81	0	4	-1.111111111
27	7	320.67	6.74	0	4	-1.19047619
27	8	314.67	10.04	0	4	-1.383928571
27	9	321.79	7.95	0	4	-1.259920635

27	10	318.08	8.8	0	4	-1.388888889
27	11	314.44	8.73	0	3	-1.512896825
27	12	317.73	9.51	0	3	-1.54265873
27	13	313.1	9.51	0	4	-1.423611111
27	14	318.79	9.46	0	4	-1.393849206
27	15	318.06	9.49	0	4	-1.299603175
27	16	308.27	9.5	0	4	-1.135912698
27	17	307.36	8.17	0	4	-1.046626984
27	18	314.31	6.98	0	4	-0.982142857
27	19	315.74	7.66	0	4	-0.947420635
27	20	328.06	7.08	0	4	-0.907738095
27	21	317.68	8.38	0	4	-0.967261905
27	22	316.18	8.18	0	4	-1.001984127
27	23	297.59	11.22	0	4	-1.011904762
28	0	305.58	10.11	0	4	-0.987103175
28	1	315.75	7.76	0	4	-0.902777778
28	2	309.2	7.7	0	4	-0.882936508
28	3	321.02	12.07	0	4	-0.962301587
28	4	317.73	9.55	0	4	-1.011904762
28	5	314.33	8.39	0	4	-1.061507937
28	6	315.47	5.84	0	4	-0.967261905
28	7	323.59	5.55	0	4	-0.87797619
28	8	314.14	7.53	0	4	-1.155753968
28	9	313.58	7.98	0	4	-1.25
28	10	316.06	8.51	0	4	-1.28968254
28	11	305.13	9.58	0	4	-1.418650794
28	12	309.86	9.18	0	4	-1.423611111
28	13	306.08	9.82	0	4	-1.408730159
28	14	303.87	8.65	0	4	-1.433531746
28	15	302.97	10.87	0	4	-1.314484127
28	16	300.17	11.04	0	4	-1.125992063
28	17	306.26	10.75	0	4	-1.016865079
28	18	326.74	8.62	0	4	-0.967261905
28	19	323.06	6.89	0	4	-0.907738095
28	20	323.17	5.87	0	4	-0.887896825
28	21	339.91	7.85	0	4	-0.858134921
28	22	343.18	9.88	0	4	-0.848214286
28	23	344.11	9.57	0	4	-0.858134921
29	0	341.59	9.02	0	4	-0.863095238
29	1	341.08	7.1	0	4	-0.858134921
29	2	337.26	6.2	0	4	-0.798611111
29	3	355.58	6.67	0	4	-0.753968254
29	4	6.84	4.29	0	4	-0.704365079
29	5	30.14	5.45	0	5	-0.362103175
29	6	52.16	4.02	0	5	0.133928571
29	7	37.13	4.74	0	5	0.27281746
29	8	46.08	5.08	0	5	-0.456349206
29	9	7.71	5.18	0	4	-1.046626984
29	10	350.41	5.34	0	4	-1.334325397

29	11	358.74	4.66	0	4	-1.180555556
29	12	354.5	5.09	0	4	-1.324404762
29	13	337.26	5.26	0	4	-1.359126984
29	14	345.86	5.46	0	4	-1.279761905
29	15	336.44	4.59	0	4	-1.180555556
29	16	336.65	4.42	0	4	-0.95734127
29	17	350.02	4.12	0	4	-0.625
29	18	16.37	5.05	0	5	-0.163690476
29	19	24.98	5.58	0	5	-0.124007937
29	20	12.18	7.61	0	5	-0.148809524
29	21	20	6.76	0	5	0.208333333
29	22	30.37	5.66	0	5	0.530753968
29	23	38.68	7.44	0	5	1.071428571
30	0	46.29	4.41	0	5	0.431547619
30	1	27.9	5.1	0	5	0.625
30	2	38.3	6.79	0	5	1.140873016
30	3	51.83	4.49	0	5	1.195436508
30	4	47.75	3.41	0	5	1.329365079
30	5	51.57	3.65	0	5	1.314484127
30	6	163.43	2.17	0	5	1.245039683
30	7	78.98	2.81	0	5	1.259920635
30	8	103.32	1.92	0	5	0.873015873
30	9	118.14	2.26	0	5	-0.421626984
30	10	61.97	2.42	0	4	-0.590277778
30	11	32.87	2.92	0	4	-0.555555556
30	12	9.42	2.96	0	4	-0.555555556
30	13	46.04	3.64	0	5	-0.456349206
30	14	315.89	2.67	0	4	-0.753968254
30	15	167.44	1.91	0	5	-0.337301587
30	16	88.35	2.46	0	5	-0.064484127
30	17	73.81	1.64	0	5	0.620039683
30	18	139.04	2.69	0	5	0.788690476
30	19	40.85	1.85	0	5	0.401785714
30	20	247.45	1.67	0	5	-0.267857143
30	21	19.11	2.64	0.03	4	-0.570436508
30	22	5.94	4.11	0.14	5	-0.391865079
30	23	357.05	6.13	0.18	5	0.133928571
31	0	359.49	5.95	0.07	5	0.932539683
31	1	350.99	4.49	0.06	6	3.323412698
31	2	309.66	5.1	0.1	5	1.23015873
31	3	27.67	6.6	0.01	5	0.233134921
31	4	21.87	8.19	0	5	0.138888889
31	5	33.05	6.07	0	5	0.084325397
31	6	1.26	4.01	0	5	-0.406746032
31	7	286.47	4.53	0	4	-0.689484127
31	8	265.34	4.77	0	4	-0.823412698
31	9	282.96	8.96	0	4	-0.843253968
31	10	272.83	9.09	0	4	-0.892857143
31	11	266.9	5.57	0	4	-0.987103175

31	12	276.28	8.71	0	4	-1.056547619
31	13	280.37	9.75	0	4	-1.091269841
31	14	274.14	9.04	0	4	-1.116071429
31	15	275.67	9.15	0	4	-1.111111111
31	16	272.08	7.33	0	4	-0.95734127
31	17	280.71	9.06	0	4	-0.818452381
31	18	267.13	5.49	0	4	-0.788690476
31	19	224.15	3.29	0	4	-0.654761905
31	20	204.78	2.97	0	5	-0.29265873
31	21	178.34	4.41	0	5	0.054563492
31	22	183.54	5.97	0	5	-0.084325397
31	23	183.59	5.97	0	5	-0.396825397
32	0	185.38	5.74	0	5	-0.421626984
32	1	181.15	4.57	0	5	0.024801587
32	2	183.44	3.48	0	5	0.719246032
32	3	239.32	2.06	0	5	0.99702381
32	4	205.2	3.04	0	5	0.818452381
32	5	176.63	6.13	0	5	-0.27281746
32	6	190.89	6.27	0	4	-0.525793651
32	7	178.78	5.89	0	5	-0.37202381
32	8	197.15	5.71	0	4	-0.575396825
32	9	181.7	5.36	0	4	-1.086309524
32	10	268.54	7.63	0	4	-1.130952381
32	11	275.41	7.23	0	4	-1.150793651
32	12	271.5	7.07	0	4	-1.388888889
32	13	272.2	6.54	0	4	-1.130952381
32	14	269.13	8.07	0	4	-1.116071429
32	15	285.52	6.73	0	4	-1.145833333
32	16	281	7.92	0	4	-0.9375
32	17	266.58	5.77	0	4	-0.763888889
32	18	252.98	4.92	0	4	-0.68452381
32	19	252.8	5.22	0	4	-0.704365079
32	20	251.48	6.19	0	4	-0.798611111
32	21	271.48	6.42	0	4	-0.843253968
32	22	284.62	7.06	0	4	-0.818452381
32	23	307.12	7.59	0	4	-0.962301587
33	0	311.35	7.91	0	4	-1.006944444
33	1	310.41	8.56	0	4	-0.922619048
33	2	293.03	5.77	0	4	-0.858134921
33	3	296.72	6.67	0	4	-0.853174603
33	4	293.52	7.64	0	4	-0.892857143
33	5	285.36	6.37	0	4	-0.848214286
33	6	285.81	5.18	0	4	-0.813492063
33	7	309.9	7.44	0	4	-0.91765873
33	8	318.24	8.49	0	4	-1.061507937
33	9	310.33	9.56	0	4	-1.30952381
33	10	309.7	12.13	0	4	-1.453373016
33	11	301.03	10.94	0	3	-1.532738095
33	12	297	9.79	0	3	-1.577380952

33	13	302.2	9.31	0	4	-1.473214286
33	14	312.04	9.98	0	4	-1.339285714
33	15	308.22	10.1	0	4	-1.294642857
33	16	306.56	8.74	0	4	-1.081349206
33	17	299.53	8.04	0	4	-0.902777778
33	18	302.71	10.18	0	4	-0.91765873
33	19	313.76	8.66	0	4	-0.887896825
33	20	324.4	7.38	0	4	-0.868055556
33	21	327.29	8.27	0	4	-0.873015873
33	22	336.31	7.02	0	4	-0.838293651
33	23	332.67	6.14	0	4	-0.833333333
34	0	313.51	5.79	0	4	-0.838293651
34	1	344.35	4.03	0	4	-0.739087302
34	2	275.21	4.25	0	4	-0.778769841
34	3	289.03	5.71	0	4	-0.912698413
34	4	342.83	3.37	0	4	-0.843253968
34	5	317.72	4.32	0	4	-0.892857143
34	6	223.62	2.37	0	4	-0.803571429
34	7	186.86	2.2	0	4	-0.788690476
34	8	90.29	1.49	0	4	-0.848214286
34	9	177.6	3.22	0	4	-1.036706349
34	10	172.68	2.61	0	4	-1.061507937
34	11	259.01	2.89	0	4	-1.061507937
34	12	189.96	3.16	0	4	-1.066468254
34	13	165.32	2.73	0	4	-0.942460317
34	14	358.79	2.91	0	4	-0.58531746
34	15	353.79	2.46	0	4	-0.60515873
34	16	359.12	2.61	0	5	-0.416666667
34	17	22.13	3.71	0	5	-0.456349206
34	18	30.12	5.11	0	5	-0.491071429
34	19	25.72	2.94	0	4	-0.510912698
34	20	18.43	2.59	0	5	-0.491071429
34	21	25.81	3.41	0	5	-0.431547619
34	22	29.09	3.7	0	5	-0.248015873
34	23	14.5	3.32	0	5	-0.287698413
35	0	0.52	3.46	0	5	-0.208333333
35	1	3.55	3.8	0	5	-0.416666667
35	2	17.7	4.38	0	4	-0.649801587
35	3	8.77	4.2	0	4	-0.729166667
35	4	37.29	5.36	0	5	-0.461309524
35	5	8.89	6.13	0	4	-0.724206349
35	6	3.89	5.67	0	4	-0.773809524
35	7	19.79	6.31	0	4	-0.689484127
35	8	4.35	6.48	0	4	-0.882936508
35	9	354.19	4.6	0	4	-0.987103175
35	10	359.41	4.05	0	4	-1.011904762
35	11	3.62	3.52	0	4	-0.987103175
35	12	14.16	3.32	0	4	-1.001984127
35	13	3.87	4.03	0	4	-0.982142857

35	14	7.46	4.69	0	4	-0.9375
35	15	25.13	3.32	0	4	-0.887896825
35	16	35.8	2.67	0	4	-0.828373016
35	17	20.33	2.27	0	4	-0.64484127
35	18	13.92	2.14	0	5	-0.381944444
35	19	34.97	4.22	0	5	-0.277777778
35	20	38.79	3.99	0	5	-0.317460317
35	21	32.69	5.21	0	5	-0.267857143
35	22	49.83	3.52	0	5	0.03968254
35	23	83.77	2.15	0	5	-0.069444444
36	0	43.28	2.89	0	5	-0.153769841
36	1	46.37	3.99	0	5	-0.168650794
36	2	67.1	2.14	0	5	0
36	3	46.12	3.41	0	5	0.004960317
36	4	58.1	4.77	0	5	0.27281746
36	5	66.93	3.44	0	5	1.165674603
36	6	343.24	5.27	0	5	-0.431547619
36	7	320.91	8.09	0	4	-0.932539683
36	8	330.9	7.28	0	4	-1.001984127
36	9	299.1	6.04	0	4	-1.23015873
36	10	312.26	7.68	0	4	-1.259920635
36	11	298.33	7.28	0	4	-1.339285714
36	12	291.98	6.02	0	4	-1.433531746
36	13	288.5	6.61	0	4	-1.388888889
36	14	273.88	7.73	0	4	-1.304563492
36	15	273.98	6.52	0	4	-1.175595238
36	16	264.36	5.4	0	4	-0.982142857
36	17	239.81	1.84	0	4	-0.550595238
36	18	202.15	4.31	0	5	0.004960317
36	19	183.92	6.47	0	5	-0.441468254
36	20	192.91	5.6	0	5	-0.491071429
36	21	177.46	6.15	0	5	-0.441468254
36	22	173.83	4.84	0	5	-0.243055556
36	23	188.62	3.97	0	5	-0.33234127
37	0	247.19	5.16	0	4	-0.68452381
37	1	250.92	4.77	0	4	-0.64484127
37	2	260.22	6.23	0	4	-0.758928571
37	3	281.19	7.7	0	4	-0.783730159
37	4	334.27	7.17	0	4	-0.813492063
37	5	336.98	8.63	0	4	-0.818452381
37	6	330.12	6.71	0	4	-0.833333333
37	7	324.52	8	0	4	-0.868055556
37	8	322.57	7.74	0	4	-1.061507937
37	9	318.3	8.67	0	4	-1.21031746
37	10	310.73	8.1	0	4	-1.324404762
37	11	310.59	6.29	0	4	-1.349206349
37	12	309.51	7.35	0	4	-1.393849206
37	13	279.02	7.62	0	4	-1.364087302
37	14	281.08	8.26	0	4	-1.259920635

37	15	276.57	7.9	0	4	-1.160714286
37	16	270.22	6.36	0	4	-0.95734127
37	17	243.72	3.14	0	4	-0.709325397
37	18	242.9	2.4	0	5	-0.307539683
37	19	196.89	2.66	0	5	0.808531746
37	20	190.71	3.38	0	5	1.106150794
37	21	159.04	3.49	0	5	1.051587302
37	22	162.94	3.35	0	5	0.64484127
37	23	181.96	4.9	0	5	0.198412698
38	0	178.55	4.52	0	5	-0.03968254
38	1	178.05	7.24	0	5	-0.461309524
38	2	176	7.76	0	4	-0.689484127
38	3	180.58	8.05	0	4	-0.64484127
38	4	181.06	6.78	0	4	-0.535714286
38	5	171.73	5.22	0	5	-0.213293651
38	6	182.85	2.85	0	5	0.436507937
38	7	200.98	5.02	0	5	0.25297619
38	8	227.53	4.69	0	4	-0.575396825
38	9	261.14	6.15	0	4	-1.096230159
38	10	285.87	6.49	0	4	-1.19047619
38	11	291.53	8.08	0	4	-1.259920635
38	12	286.14	8.77	0	4	-1.28968254
38	13	280.93	9.62	0	4	-1.19047619
38	14	280.07	9.28	0	4	-1.121031746
38	15	296.06	6.75	0	4	-1.19047619
38	16	304.84	8.23	0	4	-1.046626984
38	17	305.14	6.62	0	4	-0.887896825
38	18	319.6	7.18	0	4	-0.858134921
38	19	318.68	7.61	0	4	-0.873015873
38	20	336.86	7.23	0	4	-0.818452381
38	21	329.21	7.79	0	4	-0.868055556
38	22	333.06	9.2	0	4	-0.87797619
38	23	330.32	8.74	0	4	-0.887896825
39	0	334.68	8.14	0	4	-0.858134921
39	1	343.81	6.52	0	4	-0.838293651
39	2	2.57	6.62	0	4	-0.87797619
39	3	20.72	5.84	0	4	-0.719246032
39	4	31.61	6.13	0	4	-0.615079365
39	5	14.27	7.35	0	4	-0.89781746
39	6	3.28	6.65	0	4	-0.882936508
39	7	53.91	4.54	0	4	-0.639880952
39	8	32.97	4.57	0	4	-0.952380952
39	9	26.1	5.49	0	4	-1.121031746
39	10	359.66	5.1	0	4	-1.225198413
39	11	5.81	3.78	0	4	-1.130952381
39	12	352.02	3.46	0	4	-1.160714286
39	13	39.45	3.82	0	4	-1.150793651
39	14	243.81	2.91	0	4	-1.121031746
39	15	167.41	4.86	0	4	-1.304563492

39	16	154.12	3.97	0	4	-1.091269841
39	17	150.97	3.74	0	5	-0.421626984
39	18	171.83	4.61	0	5	-0.173611111
39	19	188.94	7.45	0	5	-0.456349206
39	20	192.96	6.45	0	5	-0.496031746
39	21	198.22	5.25	0	5	-0.257936508
39	22	179.17	3.69	0	5	-0.004960317
39	23	185.23	6.22	0	5	-0.079365079
40	0	210.16	3.61	0	5	-0.01984127
40	1	191.37	4.8	0	5	-0.034722222
40	2	169.58	4.36	0	5	0.089285714
40	3	179.28	4.58	0	5	-0.128968254
40	4	192.58	2.75	0	5	0.064484127
40	5	213.31	2.45	0	5	0.337301587
40	6	225.46	2.54	0	5	0.669642857
40	7	223.58	2.65	0	5	0.416666667
40	8	187.77	4.27	0	5	-0.421626984
40	9	171.29	7.34	0	4	-1.23015873
40	10	172.02	8.49	0	4	-1.200396825
40	11	185.66	9.81	0	4	-1.245039683
40	12	186.57	10.71	0	4	-1.235119048
40	13	183.76	10.77	0	4	-1.349206349
40	14	177.27	10.03	0	4	-1.26984127
40	15	179.79	9.09	0	4	-1.081349206
40	16	183.17	7.69	0	4	-0.659722222
40	17	174.35	5.31	0	5	0.128968254
40	18	171.75	4.55	0	5	0.347222222
40	19	216.52	2.56	0	5	0.436507937
40	20	310.16	1.89	0	5	0.892857143
40	21	246.24	2.03	0	5	1.041666667
40	22	353.32	2.05	0	6	2.55952381
40	23	10.87	1.85	0	7	4.325396825
41	0	349.68	2.72	0	6	3.516865079
41	1	24.47	4.79	0	6	3.650793651
41	2	332.75	2.09	0	7	4.201388889
41	3	16.3	2.66	0	7	4.04265873
41	4	44.57	5.99	0	7	4.662698413
41	5	49.85	5.16	0	7	4.12202381
41	6	25.78	3.41	0	6	3.69047619
41	7	28.95	6.74	0	6	3.913690476
41	8	40.79	4.36	0	6	3.18452381
41	9	28.1	2.03	0	6	2.113095238
41	10	35.13	2.35	0	5	-0.381944444
41	11	350.32	3.02	0	4	-0.744047619
41	12	299.92	2.99	0	4	-1.026785714
41	13	250.7	3.7	0	4	-0.962301587
41	14	198.68	3.58	0	4	-1.091269841
41	15	173.38	5.33	0	4	-0.932539683
41	16	167.84	3.98	0	5	-0.317460317

41	17	179.7	3.02	0	5	0.401785714
41	18	206.55	2.28	0	5	0.337301587
41	19	191.96	2.78	0	5	0.183531746
41	20	157.3	2.22	0	5	0.218253968
41	21	319.75	1.73	0	5	-0.03968254
41	22	205.7	1.49	0	5	-0.277777778
41	23	160.7	1.92	0	4	-0.570436508
42	0	197.66	1.35	0	4	-0.64484127
42	1	194.03	1.64	0	5	-0.476190476
42	2	188.74	1.14	0	5	-0.441468254
42	3	193.05	2.04	0	5	-0.27281746
42	4	177.16	2.34	0	5	-0.069444444
42	5	197.06	2.28	0	5	0.009920635
42	6	166.01	1.89	0	5	-0.01984127
42	7	145.2	1.49	0	5	0.054563492
42	8	190.41	1.23	0	5	-0.099206349
42	9	138.08	1.35	0	5	-0.009920635
42	10	78.61	1.06	0	5	1.140873016
42	11	248.23	1.58	0	5	0.277777778
42	12	3.74	1.78	0	5	0.307539683
42	13	254.56	2.47	0	5	0.188492063
42	14	215.1	2.87	0	5	0.33234127
42	15	214.4	2.08	0	5	1.21031746
42	16	308.7	7.11	0	4	-0.803571429
42	17	300.73	8.5	0	4	-0.947420635
42	18	309.52	10.1	0	4	-1.026785714
42	19	320.04	9.8	0	4	-0.947420635
42	20	321.91	9.55	0	4	-0.95734127
42	21	326.75	8.48	0	4	-0.972222222
42	22	348.16	7.71	0	4	-0.892857143
42	23	306.76	6.77	0	4	-0.922619048
43	0	305.62	6.47	0	4	-0.9375
43	1	292.67	7.22	0	4	-0.972222222
43	2	293.77	5.76	0	4	-1.096230159
43	3	305.24	3.84	0	4	-1.011904762
43	4	329.5	4.13	0	4	-0.932539683
43	5	323.76	6.96	0	4	-0.942460317
43	6	343.27	4.81	0	4	-0.833333333
43	7	351.84	6.21	0	4	-0.972222222
43	8	339.27	6.09	0	4	-1.200396825
43	9	355.44	6.14	0	4	-1.304563492
43	10	8.26	6.67	0	4	-1.349206349
43	11	346.56	5.42	0	4	-1.488095238
43	12	340.05	5.5	0	3	-1.597222222
43	13	345.4	4.71	0	4	-1.403769841
43	14	341.23	4.81	0	4	-1.438492063
43	15	335.94	4.11	0	4	-1.284722222
43	16	337.39	4.24	0	4	-1.185515873
43	17	357.74	3.56	0	4	-0.89781746

43	18	6.63	3.75	0	4	-0.699404762
43	19	33.73	4.16	0	5	-0.198412698
43	20	34.07	4.98	0	5	0.03968254
43	21	29.8	5.29	0	5	0.376984127
43	22	32.91	5.07	0	5	1.016865079
43	23	41.53	5.14	0	5	1.498015873
44	0	40.94	4.44	0	6	1.636904762
44	1	39.16	5.69	0	6	1.731150794
44	2	44.1	3.67	0	5	1.086309524
44	3	38.18	5.44	0	6	1.865079365
44	4	41.74	6.6	0	6	2.22718254
44	5	70.87	3.11	0	5	0.763888889
44	6	42.18	3.97	0	5	0.530753968
44	7	38.5	5	0	5	0.863095238
44	8	35.8	4.09	0	5	0.89781746
44	9	40.57	2.89	0	5	-0.148809524
44	10	278.93	2.16	0	4	-0.763888889
44	11	202.37	3.8	0	4	-1.041666667
44	12	192.8	4.82	0	4	-1.125992063
44	13	166.19	5.27	0	4	-1.25
44	14	155.71	4.63	0	4	-1.046626984
44	15	156.95	5.13	0	4	-0.843253968
44	16	162.11	5.76	0	4	-0.858134921
44	17	161.09	4.5	0	4	-0.714285714
44	18	177.71	3.34	0	4	-0.659722222
44	19	164.43	2.48	0	4	-0.575396825
44	20	188.49	2.14	0	4	-0.739087302
44	21	319.22	1.64	0.01	5	-0.178571429
44	22	355.83	2.86	0.01	5	0.381944444
44	23	3.67	1.89	0.04	5	0.555555556
45	0	42.85	2.87	0.09	5	0.739087302
45	1	31.05	3.92	0.06	5	0.87797619
45	2	52.25	1.79	0.04	5	0.907738095
45	3	28.67	3.61	0.15	5	1.339285714
45	4	43.27	2.13	0.01	6	1.512896825
45	5	2.02	1.59	0.01	5	1.23015873
45	6	42.18	2.74	0	6	2.281746032
45	7	48.34	2.3	0.01	6	2.951388889
45	8	28.77	2.82	0.21	6	2.470238095
45	9	316.34	3.07	0.07	5	1.086309524
45	10	169.66	7.73	0	6	1.5625
45	11	190.64	9.73	0	5	0.099206349
45	12	223.28	8.54	0	4	-0.669642857
45	13	204.63	7.04	0	4	-1.155753968
45	14	216.85	5.21	0	4	-1.026785714
45	15	190.51	5.95	0	4	-1.125992063
45	16	174.43	4.6	0	5	-0.486111111
45	17	163.35	2.91	0	5	0.317460317
45	18	178.09	5.36	0	5	0.124007937

45	19	173.43	5.34	0	5	0.138888889
45	20	164.4	2.42	0	5	0.044642857
45	21	300.64	4.92	0	4	-0.540674603
45	22	308.92	5.38	0	4	-0.793650794
45	23	294.67	6.31	0	4	-0.868055556
46	0	291.79	7.44	0	4	-0.89781746
46	1	339.54	6.95	0	4	-0.932539683
46	2	318.68	7.9	0	4	-0.952380952
46	3	324.69	9.06	0	4	-0.902777778
46	4	318.26	10.21	0	4	-0.892857143
46	5	325.55	8.94	0	4	-0.863095238
46	6	315.43	6.28	0	4	-0.902777778
46	7	314.28	6.92	0	4	-0.91765873
46	8	315.65	7.54	0	4	-1.135912698
46	9	323.68	8.29	0	4	-1.205357143
46	10	320.51	8.19	0	4	-1.339285714
46	11	328.05	7.65	0	4	-1.378968254
46	12	318.75	7	0	4	-1.478174603
46	13	313.28	6.65	0	3	-1.52281746
46	14	307.53	7.29	0	4	-1.423611111
46	15	302.13	5.67	0	4	-1.329365079
46	16	290.06	5.95	0	4	-1.096230159
46	17	298.63	3.95	0	4	-0.833333333
46	18	302.05	3.44	0	4	-0.729166667
46	19	272.93	2.96	0	4	-0.64484127
46	20	123.38	3.48	0	5	-0.362103175
46	21	65.93	2.84	0	4	-0.560515873
46	22	166.77	2.49	0	5	0.034722222
46	23	263.43	1.8	0	5	0.391865079
47	0	57.1	1.6	0	5	0.9375
47	1	31.02	1.91	0	5	1.006944444
47	2	40.16	2.14	0	5	1.106150794
47	3	5.82	2.68	0	5	0.3125
47	4	206.37	1.93	0	5	0.049603175
47	5	145.32	1.84	0	5	-0.153769841
47	6	173.24	3.42	0	5	0.054563492
47	7	182.26	6.14	0	4	-0.540674603
47	8	171.8	8.13	0	4	-0.734126984
47	9	179.33	7.82	0	4	-0.659722222
47	10	180.64	8.79	0	4	-0.66468254
47	11	183.16	8.79	0	4	-1.165674603
47	12	202.46	5.53	0	4	-1.021825397
47	13	195.78	6.1	0	4	-1.205357143
47	14	179.8	4.81	0	4	-1.061507937
47	15	168.86	3.26	0	4	-0.962301587
47	16	170.65	3.19	0	4	-0.858134921
47	17	233.21	2.99	0	5	-0.426587302
47	18	279.72	4.55	0	4	-0.66468254
47	19	305.73	8.45	0	4	-0.863095238

47	20	304.53	8.06	0	4	-0.932539683
47	21	320.16	7.03	0	4	-0.828373016
47	22	324.65	9.28	0	4	-0.818452381
47	23	330.48	7.35	0	4	-0.828373016
48	0	331.28	7.58	0	4	-0.87797619
48	1	327.22	8.06	0	4	-0.863095238
48	2	334.31	7.49	0	4	-0.887896825
48	3	332.65	9.49	0	4	-0.942460317
48	4	343.85	6.91	0	4	-0.922619048
48	5	321.81	8.72	0	4	-0.962301587
48	6	321.08	7.47	0	4	-0.99702381
48	7	334.93	6.91	0	4	-0.987103175
48	8	358.43	7.47	0	4	-1.165674603
48	9	10.99	6.55	0	4	-1.324404762
48	10	5.72	6.35	0	4	-1.398809524
48	11	357.24	6.17	0	4	-1.433531746
48	12	345.91	7.37	0	3	-1.626984127
48	13	333.35	7.51	0	4	-1.488095238
48	14	324.21	5.93	0	3	-1.557539683
48	15	327.5	5.68	0	4	-1.473214286
48	16	339.5	5.41	0	4	-1.185515873
48	17	340.58	3.44	0	4	-0.853174603
48	18	342.45	1.53	0	4	-0.704365079
48	19	16.21	3.34	0	5	-0.357142857
48	20	12.49	3.45	0	4	-0.515873016
48	21	28.57	4.61	0	4	-0.540674603
48	22	26.55	4.35	0	4	-0.550595238
48	23	33.11	3.52	0	5	-0.243055556
49	0	28.53	3.48	0	5	0.029761905
49	1	25.13	5	0	5	-0.119047619
49	2	32.9	4.51	0	5	-0.317460317
49	3	22.9	3.01	0	4	-0.510912698
49	4	33.98	4.1	0	4	-0.535714286
49	5	32.74	3.34	0	4	-0.525793651
49	6	37.38	2.83	0	4	-0.679563492
49	7	24.14	2.71	0	4	-0.853174603
49	8	6.53	3.58	0	4	-0.669642857
49	9	359.97	4.03	0	4	-0.60515873
49	10	22.27	4	0.02	4	-0.595238095
49	11	2.28	2.87	0.03	5	-0.381944444
49	12	353.48	3.07	0.04	5	-0.35218254
49	13	4.9	4.3	0.08	5	-0.158730159
49	14	7.34	5.19	0.12	5	0.396825397
49	15	6.72	6.63	0.15	5	0.431547619
49	16	11.64	7.57	0.07	5	0.238095238
49	17	14.32	8.37	0.01	5	0.193452381
49	18	15.83	8.49	0.01	5	0.238095238
49	19	14.03	7.38	0	5	0.25297619
49	20	10.02	6.69	0	5	-0.05952381

49	21	8.24	7.53	0	5	-0.381944444
49	22	5.64	6.76	0	5	-0.486111111
49	23	3.59	6.85	0	4	-0.545634921
50	0	1.66	6.28	0	4	-0.580357143
50	1	7.47	6.29	0	4	-0.580357143
50	2	7.93	5.21	0	5	-0.357142857
50	3	4.71	4.37	0	5	-0.302579365
50	4	359.57	4.12	0	5	0.01984127
50	5	17.01	2.59	0	5	0.183531746
50	6	1.65	4.89	0	5	0.029761905
50	7	2.44	4.55	0	5	-0.143849206
50	8	12.55	4.29	0.01	4	-0.590277778
50	9	3.45	5.7	0	4	-0.788690476
50	10	6.07	6.52	0	4	-1.026785714
50	11	3.94	6.58	0	4	-0.9375
50	12	2.8	5.86	0	4	-0.952380952
50	13	359.48	5.11	0	4	-0.91765873
50	14	353.7	4.72	0	4	-0.813492063
50	15	5.61	5.52	0	4	-0.818452381
50	16	2.9	6.41	0	4	-0.778769841
50	17	4.86	6.8	0	4	-0.709325397
50	18	6.85	7.55	0	4	-0.714285714
50	19	7.73	6.32	0	4	-0.699404762
50	20	5.8	6.09	0	4	-0.704365079
50	21	350.31	4.21	0	4	-0.679563492
50	22	349.28	4.26	0	4	-0.704365079
50	23	13.34	4.36	0	4	-0.659722222
51	0	13.98	3.4	0	4	-0.550595238
51	1	62.98	2.55	0	5	-0.248015873
51	2	122.32	1.86	0	5	-0.148809524
51	3	103.75	2.21	0	4	-0.520833333
51	4	231.58	4.55	0	4	-0.744047619
51	5	262.65	5.32	0	4	-0.868055556
51	6	309.14	6.57	0	4	-0.912698413
51	7	308.23	6.31	0	4	-0.89781746
51	8	303.81	4.34	0	4	-0.987103175
51	9	294.25	5.33	0	4	-1.200396825
51	10	291.9	6.61	0	4	-1.240079365
51	11	300.38	5.82	0	4	-1.279761905
51	12	294.92	6.14	0	4	-1.25
51	13	296.96	6.3	0	4	-1.200396825
51	14	294.61	6.19	0	4	-1.299603175
51	15	290.69	7.56	0	4	-1.264880952
51	16	291.07	6.94	0	4	-1.116071429
51	17	278.93	5.59	0	4	-0.788690476
51	18	268.51	4.29	0	4	-0.639880952
51	19	263.2	3.68	0	4	-0.535714286
51	20	260.09	4.84	0	4	-0.654761905
51	21	267.61	4.96	0	4	-0.654761905

51	22	280.18	5.98	0	4	-0.659722222
51	23	291.13	6.11	0	4	-0.699404762
52	0	302.32	5.87	0	4	-0.818452381
52	1	286.29	5.15	0	4	-0.758928571
52	2	303.6	5.82	0	4	-0.783730159
52	3	285.06	6.91	0	4	-0.734126984
52	4	277.17	7.27	0	4	-0.739087302
52	5	288.24	6.25	0	4	-0.739087302
52	6	259.14	3.48	0	4	-0.699404762
52	7	280.64	4.31	0	4	-0.813492063
52	8	301.9	5.37	0	4	-1.106150794
52	9	294.54	6.06	0	4	-1.329365079
52	10	291.15	5.2	0	4	-1.364087302
52	11	295.29	6.62	0	3	-1.50297619
52	12	340.62	5.24	0	4	-1.324404762
52	13	303.26	4.52	0	4	-1.294642857
52	14	272.66	5.18	0	4	-1.324404762
52	15	269.96	4.03	0	4	-1.21031746
52	16	269.66	4.37	0	4	-1.056547619
52	17	269.14	3.65	0	4	-0.674603175
52	18	197.86	2.03	0	5	-0.238095238
52	19	205.01	2.64	0	5	0.317460317
52	20	204.43	3.04	0	5	-0.367063492
52	21	200.96	2.9	0	5	-0.3125
52	22	127.6	1.72	0	5	-0.03968254
52	23	250.01	2.24	0	5	0.610119048
53	0	46.61	1.76	0	5	1.498015873
53	1	7.13	2.55	0	6	1.671626984
53	2	3.24	1.76	0	6	1.820436508
53	3	344.05	1.39	0	5	1.448412698
53	4	357.61	1.29	0	6	1.607142857
53	5	338.16	1.54	0	6	1.860119048
53	6	13.02	1.56	0	5	1.458333333
53	7	1.13	1.37	0	6	1.587301587
53	8	210.67	1.19	0	5	0.168650794
53	9	170.49	3.21	0	4	-0.838293651
53	10	197.36	2.83	0	4	-0.863095238
53	11	254.99	3.86	0	5	-0.347222222
53	12	246.67	3.67	0	5	-0.198412698
53	13	209.92	3.74	0	4	-0.709325397
53	14	163.62	5.17	0	4	-1.21031746
53	15	150.09	5.53	0	4	-1.061507937
53	16	154.14	6.17	0	4	-0.615079365
53	17	160.95	5.25	0	5	-0.148809524
53	18	160.91	4.88	0	5	0.089285714
53	19	158.64	3.56	0	5	0.168650794
53	20	162.5	3.15	0	5	0.277777778
53	21	169.17	3.24	0	5	0.243055556
53	22	180.89	3.3	0	5	0.054563492

53	23	251.92	2.15	0	5	0.282738095
54	0	260.3	1.39	0	5	1.259920635
54	1	6.13	1.75	0	5	1.468253968
54	2	356.01	1.74	0	6	2.063492063
54	3	355.31	1.49	0	6	1.889880952
54	4	26.45	1.78	0	6	2.380952381
54	5	357.97	1.45	0	6	2.142857143
54	6	19.49	2.21	0	6	2.16765873
54	7	357.53	2.06	0	6	2.296626984
54	8	164.99	1.87	0	5	0.749007937
54	9	187.42	2.52	0	4	-0.58531746
54	10	212.75	2.93	0	5	-0.009920635
54	11	169.49	3.97	0	5	-0.257936508
54	12	183.95	4.99	0	4	-0.659722222
54	13	189.43	8.7	0	4	-1.220238095
54	14	186.81	8.37	0	4	-1.041666667
54	15	184.83	8.63	0	4	-1.121031746
54	16	185.38	8.31	0	4	-0.66468254
54	17	175.14	6.19	0	5	-0.024801587
54	18	165.21	2.66	0	5	0.084325397
54	19	177.91	3.33	0	5	0.337301587
54	20	183.56	1.59	0	5	0.818452381
54	21	327.53	1.57	0	5	1.30952381
54	22	339.56	1.74	0	6	1.919642857
54	23	356.47	1.53	0	6	2.271825397
55	0	315.19	1.7	0	6	1.691468254
55	1	9.82	1.42	0	5	0.982142857
55	2	35.45	1.69	0	5	1.468253968
55	3	343.2	1.72	0	6	1.765873016
55	4	11.8	2.13	0	6	2.177579365
55	5	18.33	1.97	0	6	2.341269841
55	6	1.82	1.75	0	6	2.733134921
55	7	16.77	1.34	0	6	2.485119048
55	8	341.36	1.44	0	6	1.686507937
55	9	268.39	2.47	0	5	0.317460317
55	10	165.59	2.89	0	4	-0.719246032
55	11	234.61	3.55	0	5	-0.004960317
55	12	197.74	3.41	0	5	0.238095238
55	13	194.19	3.57	0	4	-0.66468254
55	14	227.02	3.57	0	5	-0.401785714
55	15	237.25	2.88	0	5	0.60515873
55	16	244.05	1.58	0	5	1.364087302
55	17	187.49	1.66	0	6	1.765873016
55	18	319.13	1.41	0	6	1.879960317
55	19	346.07	2.12	0	6	2.673611111
55	20	22.74	3.44	0	6	3.913690476
55	21	20.27	3.14	0	6	3.799603175
55	22	28.72	4.6	0	7	4.097222222
55	23	27.76	4.39	0	7	4.176587302

56	0	28.79	3.95	0	7	4.08234127
56	1	13.09	2.93	0	6	3.80952381
56	2	12.85	2.61	0	6	3.784722222
56	3	7.77	2.65	0	6	3.700396825
56	4	48.83	4.02	0	6	3.472222222
56	5	20.68	2.35	0	6	2.762896825
56	6	51.89	1.92	0	6	2.723214286
56	7	23.41	4.09	0	6	1.984126984
56	8	16.11	3.65	0	5	0.838293651
56	9	6.4	4	0	5	-0.168650794
56	10	13.51	3.46	0.09	5	-0.228174603
56	11	346.3	2.85	0.02	5	-0.203373016
56	12	357.4	3.51	0	5	-0.307539683
56	13	29.55	5.77	0.03	4	-0.505952381
56	14	44.84	5.37	0	4	-0.739087302
56	15	35.13	6.57	0	4	-0.778769841
56	16	37.92	4.55	0	4	-0.724206349
56	17	24.28	5.64	0.02	4	-0.679563492
56	18	12.1	5.51	0	4	-0.580357143
56	19	21.95	5.87	0	4	-0.649801587
56	20	25.32	6.87	0	4	-0.719246032
56	21	27.48	5.91	0	4	-0.744047619
56	22	27.95	6.31	0	4	-0.793650794
56	23	21.8	5.8	0	4	-0.783730159
57	0	29.4	6.81	0	4	-0.798611111
57	1	24.77	5.47	0	4	-0.798611111
57	2	25.5	5.56	0	4	-0.788690476
57	3	30.08	5.84	0	4	-0.793650794
57	4	23.85	5.51	0	4	-0.798611111
57	5	23.24	6.02	0	4	-0.798611111
57	6	28.58	6.68	0	4	-0.853174603
57	7	19.9	5.01	0	4	-0.818452381
57	8	33.24	5.97	0	4	-0.87797619
57	9	26.78	6.47	0	4	-0.892857143
57	10	20.01	4.77	0	4	-0.912698413
57	11	12.11	4.18	0	4	-0.942460317
57	12	23.46	4.19	0	4	-0.95734127
57	13	16.69	3.89	0	4	-0.972222222
57	14	2.95	3.69	0	4	-0.833333333
57	15	0.11	2.52	0	4	-0.783730159
57	16	4.79	3	0	4	-0.749007937
57	17	9.32	2.66	0	4	-0.64484127
57	18	24.02	2.82	0	4	-0.58531746
57	19	14.46	2.75	0	4	-0.500992063
57	20	15.45	2.61	0	5	-0.198412698
57	21	9.8	2.21	0	5	-0.267857143
57	22	11.26	1.96	0	5	-0.009920635
57	23	26.1	1.61	0	5	0.049603175
58	0	153.06	0.97	0	5	0.639880952

58	1	74.33	1.17	0	5	1.011904762
58	2	203.01	1.04	0	5	1.195436508
58	3	175.63	1.83	0	5	1.180555556
58	4	43.41	1.14	0	5	0.749007937
58	5	347.96	1.46	0	6	1.567460317
58	6	35.63	1.25	0	6	1.552579365
58	7	194.13	1.36	0	5	0.838293651
58	8	207.17	2.08	0	6	1.691468254
58	9	185.04	3.58	0	6	2.078373016
58	10	167.96	4.66	0	5	0.496031746
58	11	160.96	4.49	0	6	1.750992063
58	12	159.99	4.23	0	5	1.448412698
58	13	165	2.98	0	5	0.421626984
58	14	225.96	2.18	0	5	0.114087302
58	15	226.93	1.72	0	5	0.223214286
58	16	295.74	1.34	0	5	-0.178571429
58	17	191.61	1.9	0	5	0.386904762
58	18	195.21	2.48	0	5	0.679563492
58	19	226.37	2.49	0	5	1.458333333
58	20	256.25	1.33	0	5	-0.024801587
58	21	153.63	1.29	0.05	5	0.729166667
58	22	205.17	2.68	0.01	5	1.279761905
58	23	128.78	1.97	0	5	0.788690476
59	0	157.53	3.25	0	5	0.674603175
59	1	223.78	5.7	0.16	5	0.208333333
59	2	283.15	3.89	0.02	5	0.238095238
59	3	301.01	5.77	0	5	-0.431547619
59	4	325.48	6.55	0	4	-0.783730159
59	5	295.29	5.15	0.01	4	-0.694444444
59	6	313.05	9.05	0	4	-0.68452381
59	7	340.16	8.86	0	4	-0.803571429
59	8	322.43	7.4	0	4	-0.927579365
59	9	323.03	6.81	0	4	-1.121031746
59	10	321.14	7.03	0	4	-1.25
59	11	312.31	9.22	0	4	-1.135912698
59	12	309.72	8.35	0	4	-1.150793651
59	13	316.23	8.31	0	4	-1.319444444
59	14	316.21	8.02	0	4	-1.349206349
59	15	323.58	10.21	0	4	-1.180555556
59	16	319.09	8.16	0	4	-1.116071429
59	17	311.65	7.9	0	4	-0.987103175
59	18	300.91	8.21	0	4	-0.927579365
59	19	316.91	7.77	0	4	-0.912698413
59	20	312.49	9.23	0	4	-0.97718254
59	21	313.77	6.3	0	4	-0.907738095
59	22	333.47	5.98	0	4	-0.848214286
59	23	314.42	6.23	0	4	-0.848214286
60	0	302.52	8.48	0	4	-0.907738095
60	1	311.18	7.89	0	4	-0.87797619

60	2	318.85	8.02	0	4	-0.882936508
60	3	320.79	8.58	0	4	-0.858134921
60	4	331.63	7.96	0	4	-0.823412698
60	5	347.29	6.9	0	4	-0.803571429
60	6	341.94	7.69	0	4	-0.803571429
60	7	345.78	6.87	0	4	-0.952380952
60	8	338.55	7.29	0	4	-1.116071429
60	9	349.27	7.42	0	4	-1.245039683
60	10	338.17	7.05	0	4	-1.423611111
60	11	327.91	6.59	0	3	-1.547619048
60	12	317.47	5.91	0	3	-1.592261905
60	13	317.78	7.28	0	3	-1.557539683
60	14	321.2	7.7	0	4	-1.453373016
60	15	325.06	6.95	0	4	-1.28968254
60	16	322.27	6.36	0	4	-1.125992063
60	17	320.84	6.71	0	4	-0.808531746
60	18	342.6	6.8	0	4	-0.610119048
60	19	341.58	5.82	0	4	-0.570436508
60	20	13.9	5.02	0	5	-0.431547619
60	21	32.61	5.26	0	5	0.530753968
60	22	7.25	5.4	0	5	0.079365079
60	23	3.15	5.81	0	5	-0.297619048
61	0	36.72	3.27	0	5	-0.183531746
61	1	8.1	6.97	0	4	-0.530753968
61	2	15.68	5.65	0	4	-0.600198413
61	3	15.74	4.18	0	5	-0.044642857
61	4	35.51	5.35	0	5	0.818452381
61	5	63.76	3.74	0	5	0.763888889
61	6	41.09	3.09	0	5	1.388888889
61	7	39.66	2.1	0	5	0.882936508
61	8	229.01	1.71	0	5	-0.29265873
61	9	270.64	2.55	0	5	-0.29265873
61	10	197.3	4.58	0	4	-1.041666667
61	11	158.1	5.77	0	3	-1.5625
61	12	155.75	5.92	0	3	-1.646825397
61	13	153.87	5.57	0	4	-1.423611111
61	14	162.14	7.17	0	4	-1.388888889
61	15	157.09	6.56	0	4	-1.121031746
61	16	157.31	4.88	0	4	-0.768849206
61	17	166.32	5.05	0	4	-0.679563492
61	18	137.02	2.84	0.01	5	0.044642857
61	19	21.66	1.42	0	5	0.238095238
61	20	92.16	1.26	0	5	-0.004960317
61	21	162.55	1.05	0	5	-0.233134921
61	22	140.79	1.15	0	5	-0.143849206
61	23	17.43	2.16	0	5	0.178571429
62	0	41.86	3.48	0	5	0.317460317
62	1	330.22	3.41	0	5	1.026785714
62	2	309.82	7.9	0	4	-0.778769841

62	3	309.47	5.87	0	4	-0.649801587
62	4	318	5.6	0	4	-0.679563492
62	5	297.46	5.56	0	4	-0.734126984
62	6	302.37	4.17	0	4	-0.615079365
62	7	303.16	6.75	0	4	-0.89781746
62	8	288.43	9.26	0	4	-1.121031746
62	9	292.15	9.7	0	4	-1.21031746
62	10	301	7.01	0	4	-1.235119048
62	11	292.69	7.99	0	4	-1.369047619
62	12	291.1	10.31	0	4	-1.294642857
62	13	297.98	8.93	0	4	-1.418650794
62	14	300.73	9.06	0	4	-1.240079365
62	15	294.09	9.22	0	4	-1.23015873
62	16	301.32	9.67	0	4	-1.220238095
62	17	312.47	9.51	0	4	-1.081349206
62	18	317.79	9.24	0	4	-1.006944444
62	19	320.57	9.17	0	4	-0.967261905
62	20	321.78	8.59	0	4	-0.982142857
62	21	325.07	9.2	0	4	-0.947420635
62	22	325.64	7.57	0	4	-0.922619048
62	23	312.63	7.69	0	4	-0.892857143
63	0	320.56	5.84	0	4	-0.902777778
63	1	310.94	5.72	0	4	-0.887896825
63	2	312	7.37	0	4	-0.87797619
63	3	331.06	6.55	0	4	-0.892857143
63	4	312.1	5.77	0	4	-0.882936508
63	5	324.57	8.02	0	4	-0.932539683
63	6	303.75	6.42	0	4	-0.91765873
63	7	314.48	6.47	0	4	-1.061507937
63	8	304.21	6.69	0	4	-1.165674603
63	9	294.32	6.34	0	4	-1.130952381
63	10	309.25	8.88	0	4	-1.329365079
63	11	304.12	9.39	0	4	-1.433531746
63	12	307.58	11.06	0	2	-1.760912698
63	13	302.94	10.84	0	3	-1.696428571
63	14	304.9	10.32	0	3	-1.537698413
63	15	301.44	8.86	0	4	-1.468253968
63	16	321.71	9.25	0	4	-1.165674603
63	17	322.24	9.16	0	4	-0.932539683
63	18	322.75	9.93	0	4	-0.833333333
63	19	323.6	9.64	0	4	-0.853174603
63	20	320.02	10.77	0	4	-0.848214286
63	21	330.83	9.17	0	4	-0.863095238
63	22	318.59	6.01	0	4	-0.853174603
63	23	333.3	7.52	0	4	-0.823412698
64	0	319.45	7	0	4	-0.853174603
64	1	323.5	6.58	0	4	-0.828373016
64	2	325.5	5.98	0	4	-0.793650794
64	3	334.62	4.19	0	4	-0.763888889

64	4	321.58	4.69	0	4	-0.808531746
64	5	324.07	6.51	0	4	-0.863095238
64	6	345.04	6.53	0	4	-0.813492063
64	7	339.42	4.98	0	4	-0.912698413
64	8	324.69	5.83	0	4	-1.200396825
64	9	326.1	5.55	0	4	-1.448412698
64	10	336.25	6.14	0	3	-1.52281746
64	11	332.45	5.19	0	3	-1.587301587
64	12	295.4	5.38	0	2	-1.701388889
64	13	300.69	5.32	0	2	-1.785714286
64	14	307.8	5.32	0	3	-1.567460317
64	15	283.91	6.52	0	4	-1.418650794
64	16	295.69	6.71	0	4	-1.180555556
64	17	311.46	5.14	0	4	-0.91765873
64	18	292.9	5.79	0	4	-0.768849206
64	19	292.12	5.44	0	4	-0.739087302
64	20	315.35	4.7	0	4	-0.709325397
64	21	299.36	3.23	0	4	-0.525793651
64	22	213.97	3.5	0	5	-0.044642857
64	23	169.64	2.95	0	5	0.29265873
65	0	172.91	1.74	0	5	0.327380952
65	1	151.48	1.83	0	5	0.982142857
65	2	131.55	2	0	5	1.468253968
65	3	146.78	1.81	0	6	2.088293651
65	4	260.04	4	0	5	0.778769841
65	5	306.22	6.01	0	4	-0.758928571
65	6	313.02	5.34	0	4	-0.853174603
65	7	301.82	5.71	0	4	-0.932539683
65	8	298.61	7.37	0	4	-1.235119048
65	9	316.36	6.5	0	4	-1.423611111
65	10	330.43	6.58	0	4	-1.319444444
65	11	317.28	7.37	0	4	-1.23015873
65	12	316.99	7.54	0	4	-1.23015873
65	13	327.65	8.59	0	4	-1.116071429
65	14	328.39	10.59	0	4	-1.185515873
65	15	352.92	9.73	0	4	-1.081349206
65	16	350.62	7.91	0	4	-1.076388889
65	17	342.47	7.79	0	4	-0.932539683
65	18	343.43	8.12	0	4	-0.912698413
65	19	329.9	8.78	0	4	-0.813492063
65	20	326.31	8.24	0	4	-0.863095238
65	21	323.66	6.81	0	4	-0.87797619
65	22	331.01	5.54	0	4	-0.887896825
65	23	320.79	5.29	0	4	-0.89781746
66	0	305.02	4.32	0	4	-0.882936508
66	1	305.04	4.88	0	4	-0.892857143
66	2	306.24	4.23	0	4	-0.828373016
66	3	330.02	3.64	0	4	-0.66468254
66	4	311.12	3.56	0	4	-0.60515873

66	5	295.36	3.77	0	5	-0.431547619
66	6	319.99	5.59	0	4	-0.694444444
66	7	342.09	5.87	0	4	-0.927579365
66	8	328.76	7.54	0	4	-1.175595238
66	9	321.47	7.61	0	4	-1.413690476
66	10	327.09	6.36	0	3	-1.567460317
66	11	339.59	9.35	0	4	-1.483134921
66	12	349.16	9.86	0	3	-1.52281746
66	13	357.06	8.93	0	3	-1.572420635
66	14	348.64	8.64	0	4	-1.493055556
66	15	351.6	8.24	0	4	-1.324404762
66	16	0.7	6.67	0	4	-1.081349206
66	17	357.11	5.79	0	4	-0.620039683
66	18	354.39	6.17	0	4	-0.560515873
66	19	13.88	4.2	0	5	-0.233134921
66	20	2.45	4	0	5	-0.307539683
66	21	345.83	5.18	0	5	0.084325397
66	22	353.66	4.85	0	5	-0.347222222
66	23	359.69	1.97	0	5	0.620039683
67	0	18.81	2.82	0	5	1.001984127
67	1	41.11	1.8	0	6	1.954365079
67	2	30.91	2.72	0	6	2.395833333
67	3	34.19	3.98	0	6	2.172619048
67	4	47.89	2.9	0	6	2.217261905
67	5	25.57	2.43	0	6	2.475198413
67	6	28.06	2.31	0	6	2.12797619
67	7	61.93	1.4	0	6	1.696428571
67	8	201.64	2.26	0	5	0.29265873
67	9	234.18	2.78	0	5	-0.302579365
67	10	237.97	4	0	5	-0.29265873
67	11	233.74	4.62	0	5	-0.426587302
67	12	206.76	5.55	0	4	-0.798611111
67	13	165.09	6.19	0	3	-1.567460317
67	14	158.24	4.47	0	4	-1.423611111
67	15	190.32	3.4	0	4	-0.858134921
67	16	296.72	2.17	0	5	0.104166667
67	17	217.46	1.62	0	5	0.64484127
67	18	132.97	2.12	0	5	0.982142857
67	19	206.51	2.38	0	6	2.192460317
67	20	18.65	2.19	0	6	1.552579365
67	21	49.92	2.53	0	5	1.25
67	22	46.72	4.24	0.06	6	2.222222222
67	23	27.42	2.38	0	6	2.733134921
68	0	53.09	3.22	0	6	2.212301587
68	1	34	4.79	0	6	2.738095238
68	2	74.2	1.96	0	6	2.85218254
68	3	29.71	4.29	0	6	3.864087302
68	4	18.19	4.15	0	6	3.933531746
68	5	37.53	4.02	0	6	3.705357143

68	6	27.95	2.78	0	7	4.02281746
68	7	43.07	3.4	0	6	2.991071429
68	8	36.96	3.21	0	6	1.924603175
68	9	13.24	2.72	0	5	0.05952381
68	10	247.1	2.67	0	5	0.084325397
68	11	234.35	3.17	0	5	-0.416666667
68	12	181.65	5.3	0	4	-1.28968254
68	13	168.39	8.19	0	4	-1.393849206
68	14	163.22	7.13	0	3	-1.54265873
68	15	162.81	6.93	0	4	-1.383928571
68	16	167.48	7.4	0	4	-0.654761905
68	17	170.06	6.65	0	5	0.29265873
68	18	167.08	6.28	0	5	0.25297619
68	19	160.07	4.33	0	5	0.004960317
68	20	163.3	3.41	0	5	-0.128968254
68	21	178.28	2.61	0	4	-0.595238095
68	22	180.78	2.38	0	5	-0.471230159
68	23	190.22	1.75	0	4	-0.654761905
69	0	174.23	2.08	0	4	-0.649801587
69	1	182.46	3.36	0	4	-0.625
69	2	179.99	2.67	0	5	-0.29265873
69	3	108.46	1.55	0	5	-0.327380952
69	4	359.31	1.32	0	5	-0.257936508
69	5	346.76	1.76	0	5	0.396825397
69	6	7.85	1.7	0	5	0.535714286
69	7	340.99	1.2	0	6	3.536706349
69	8	301.43	1.52	0	6	2.455357143
69	9	202.39	2.94	0	6	1.5625
69	10	177.27	3.55	0	5	0.297619048
69	11	214.28	4.41	0	5	-0.262896825
69	12	239.57	4.8	0	5	-0.004960317
69	13	217.42	4.99	0	5	-0.436507937
69	14	227.07	3.4	0.02	6	1.572420635
69	15	156.23	4.66	0.03	5	0.744047619
69	16	178.62	4.35	0	5	0.456349206
69	17	195.39	5.39	0	5	0.590277778
69	18	188.23	3.71	0	5	0.873015873
69	19	145.93	2.49	0	5	1.116071429
69	20	289.4	5.99	0	5	0.05952381
69	21	18.55	3.24	0	5	-0.391865079
69	22	331.68	2.71	0	5	-0.069444444
69	23	214.65	2.37	0	5	0.749007937
70	0	269.43	4.24	0	5	0.818452381
70	1	302.55	7.99	0	4	-0.669642857
70	2	295.38	6.72	0	4	-0.674603175
70	3	306.74	6.27	0	4	-0.709325397
70	4	322.23	5.68	0	4	-0.734126984
70	5	309.25	8.36	0	4	-0.798611111
70	6	288.52	7.92	0	4	-0.828373016

70	7	295.26	8.13	0	4	-0.907738095
70	8	349.02	8.36	0	4	-0.97718254
70	9	0.87	7.3	0	4	-1.25
70	10	5.71	8.52	0	3	-1.52281746
70	11	7.42	8.04	0	3	-1.592261905
70	12	1.4	7.68	0	3	-1.656746032
70	13	5.05	8.19	0	3	-1.587301587
70	14	2.57	6.74	0	3	-1.577380952
70	15	2.67	6.31	0	4	-1.473214286
70	16	6.28	6.2	0	4	-1.121031746
70	17	5.84	6.12	0	4	-0.922619048
70	18	4.56	5.41	0	4	-0.818452381
70	19	1.91	5.8	0	4	-0.902777778
70	20	3.02	5.47	0	4	-0.793650794
70	21	11.11	5.86	0	4	-0.902777778
70	22	30.75	6.73	0	4	-0.659722222
70	23	36.52	4.87	0	5	-0.3125
71	0	39.98	2.92	0	4	-0.510912698
71	1	60.61	3.54	0	4	-0.694444444
71	2	111.75	3.54	0	4	-0.992063492
71	3	103.34	3.48	0	4	-0.987103175
71	4	127.66	3.15	0	4	-0.99702381
71	5	108.46	3.34	0	4	-0.992063492
71	6	93.43	2.78	0	4	-0.99702381
71	7	108.24	3.27	0	4	-1.006944444
71	8	121.5	3.97	0	4	-0.9375
71	9	107.81	3.63	0	4	-0.887896825
71	10	57.5	3.95	0.07	4	-0.818452381
71	11	58.17	4.69	0	4	-0.87797619
71	12	62.98	4.01	0.03	4	-0.808531746
71	13	47.09	4.17	0.08	4	-0.788690476
71	14	23.37	3.61	0.22	4	-0.659722222
71	15	33.4	4.46	0.12	4	-0.689484127
71	16	17.9	5.29	0.14	4	-0.590277778
71	17	12.06	6.48	0	4	-0.66468254
71	18	10.22	7.13	0	4	-0.659722222
71	19	11.17	6.68	0	5	-0.476190476
71	20	11.6	6.58	0	4	-0.520833333
71	21	16.48	6.98	0	4	-0.540674603
71	22	12.3	6.63	0.02	4	-0.515873016
71	23	10.05	5.4	0.04	5	-0.401785714
72	0	359.83	5.8	0.03	5	-0.327380952
72	1	10.85	4.61	0	5	-0.431547619
72	2	350.52	2.78	0	4	-1.428571429
72	3	355.45	2.42	0	5	-0.491071429
72	4	348.25	1.84	0.01	4	-1.001984127
72	5	354.1	2.68	0.01	5	-0.148809524
72	6	49.98	3.46	0.04	5	1.081349206
72	7	26.09	3.68	0.01	5	0.099206349

72	8	15.95	6.06	0	5	-0.099206349
72	9	36.93	4.13	0.01	5	-0.049603175
72	10	151.93	3.4	0	5	-0.024801587
72	11	338.62	4.44	0	4	-0.912698413
72	12	333.8	4.96	0	4	-1.026785714
72	13	292.2	6.04	0	4	-0.947420635
72	14	294.17	9	0	4	-1.031746032
72	15	298.72	9.38	0	4	-1.071428571
72	16	304.78	11.28	0	4	-1.081349206
72	17	328.44	9.24	0	4	-0.967261905
72	18	333.77	10.44	0	4	-0.902777778
72	19	339.12	9.6	0	4	-0.833333333
72	20	325.41	7.1	0	4	-0.863095238
72	21	322.27	7.79	0	4	-0.863095238
72	22	323.96	8.89	0	4	-0.813492063
72	23	327.22	7.31	0	4	-0.813492063
73	0	315.41	6.67	0	4	-0.818452381
73	1	282.17	6.74	0	4	-0.773809524
73	2	290.32	7.05	0	4	-0.813492063
73	3	303.61	5.15	0	4	-0.803571429
73	4	297.56	5.32	0	4	-0.818452381
73	5	298.77	5.3	0	4	-0.823412698
73	6	300.54	5.97	0	4	-0.952380952
73	7	306	5.39	0	4	-1.170634921
73	8	299.24	5.55	0	4	-1.413690476
73	9	315.71	7.05	0	3	-1.54265873
73	10	322.52	6.71	0	4	-1.458333333
73	11	313.05	6.57	0	3	-1.552579365
73	12	324.6	5.95	0	2	-1.721230159
73	13	313.37	8.11	0	2	-1.721230159
73	14	321.49	7.4	0	2	-1.736111111
73	15	317.07	7.22	0	3	-1.547619048
73	16	323.14	6.47	0	4	-1.354166667
73	17	318.08	4.13	0	4	-1.041666667
73	18	329.74	2.34	0	5	-0.342261905
73	19	6.14	2.2	0	5	0.133928571
73	20	59.87	2.05	0	5	0.95734127
73	21	45.03	1.99	0	6	1.790674603
73	22	27.99	1.86	0	6	1.860119048
73	23	23.89	2.32	0	6	1.607142857
74	0	2.64	1.53	0	6	1.795634921
74	1	18.03	2.1	0	5	1.398809524
74	2	29.21	2.47	0	5	1.26984127
74	3	18.32	2.91	0	5	1.195436508
74	4	19.4	2.33	0	5	0.451388889
74	5	19.11	2.09	0	5	0.803571429
74	6	20.98	1.89	0	5	1.101190476
74	7	289.77	1.2	0	5	0.64484127
74	8	171.92	3.06	0	5	-0.33234127

74	9	178.82	4.95	0	4	-1.081349206
74	10	171.48	7.02	0	3	-1.537698413
74	11	184.47	11.08	0	3	-1.577380952
74	12	191.03	10.47	0	2	-1.840277778
74	13	172.84	8.52	0	4	-1.359126984
74	14	185.7	9.83	0	4	-1.423611111
74	15	158.96	8.37	0	4	-0.892857143
74	16	158.3	7.77	0	4	-0.843253968
74	17	162.46	6.6	0	4	-0.60515873
74	18	170.12	6.11	0	5	-0.262896825
74	19	165.92	3.98	0	5	-0.054563492
74	20	155.42	3.2	0	5	-0.014880952
74	21	174.71	2.7	0	5	0.342261905
74	22	303.06	1.9	0	5	0.699404762
74	23	187.71	2.94	0	5	1.195436508
75	0	307.12	1.77	0	5	1.116071429
75	1	333.56	1.66	0	5	1.274801587
75	2	303.55	1.57	0	6	1.54265873
75	3	347.85	1.77	0	6	1.959325397
75	4	356.42	1.74	0	6	1.984126984
75	5	12.58	2.39	0	6	1.780753968
75	6	21.71	2.22	0	6	1.825396825
75	7	20.39	1.31	0	5	1.111111111
75	8	289.18	1.8	0	5	-0.29265873
75	9	193.4	2.58	0	4	-0.56547619
75	10	195.41	2.53	0	4	-0.818452381
75	11	186.85	4.95	0	4	-1.091269841
75	12	183.62	5.7	0	4	-1.334325397
75	13	163.8	5.99	0	3	-1.60218254
75	14	157.32	5.95	0	3	-1.572420635
75	15	151.41	8.43	0	4	-1.036706349
75	16	151.58	7.19	0	4	-0.595238095
75	17	152.43	5.71	0	5	0.669642857
75	18	152.91	6.32	0	6	1.681547619
75	19	162.54	10.27	0	5	0.788690476
75	20	176.44	12.01	0	5	0.128968254
75	21	173.13	8.75	0	5	0.381944444
75	22	172.75	7.47	0	5	0.297619048
75	23	171.33	5.58	0	5	0.257936508
76	0	158.03	2.94	0	5	0.486111111
76	1	153.03	2.9	0	5	0.793650794
76	2	162.71	4.04	0	5	0.560515873
76	3	162.9	4.72	0	5	0.282738095
76	4	168	4.04	0	5	0.124007937
76	5	192.72	3.06	0	5	0.570436508
76	6	215.13	1.8	0	5	0.808531746
76	7	179.43	4.1	0	5	0.014880952
76	8	172.51	4.14	0	4	-0.982142857
76	9	168.56	4.41	0	4	-1.160714286

76	10	242.42	2.86	0	5	-0.168650794
76	11	330.06	1.93	0	5	0.595238095
76	12	205.38	2.3	0	5	0.87797619
76	13	208.21	3.93	0	5	0.580357143
76	14	201.51	2.66	0	5	0.456349206
76	15	180.56	7.31	0	5	-0.01984127
76	16	179.62	6.63	0	5	-0.436507937
76	17	161.41	4.32	0	5	0.079365079
76	18	154.49	2.48	0	5	0.391865079
76	19	154.75	1.94	0	5	0.530753968
76	20	178.91	2.66	0.04	5	0.972222222
76	21	11.24	5.08	0.03	5	0.168650794
76	22	12.72	5.18	0.01	5	-0.133928571
76	23	9.51	6.61	0.03	5	-0.277777778
77	0	10.12	10.84	0.12	5	-0.421626984
77	1	8.06	11.76	0.21	4	-0.515873016
77	2	7.64	11.84	0.02	4	-0.654761905
77	3	6.71	12.58	0	4	-0.744047619
77	4	6.82	12.85	0	4	-0.843253968
77	5	7.43	14.45	0	4	-0.99702381
77	6	4.75	13.05	0.04	4	-1.001984127
77	7	0.53	13.34	0.04	4	-0.97718254
77	8	3	12.21	0	4	-0.545634921
77	9	1.06	12.09	0	5	-0.158730159
77	10	1.82	14.21	0	4	-0.724206349
77	11	8.12	14.62	0	4	-0.927579365
77	12	3.48	12.95	0	4	-0.803571429
77	13	5.8	10.68	0	5	-0.208333333
77	14	358.39	9.68	0	5	-0.024801587
77	15	349.39	11.63	0	4	-0.91765873
77	16	352.31	10.74	0	4	-1.165674603
77	17	2.02	10.15	0	4	-1.086309524
77	18	5.84	9.7	0	4	-1.066468254
77	19	11.9	8.75	0	4	-1.071428571
77	20	8.4	9.09	0	4	-1.026785714
77	21	11.11	10.37	0	4	-1.021825397
77	22	9.7	9.95	0	4	-1.016865079
77	23	10.57	12.15	0	4	-1.031746032
78	0	8.05	11.97	0	4	-1.056547619
78	1	10.8	11.61	0	4	-1.036706349
78	2	13.56	14.43	0	4	-1.026785714
78	3	11.2	16.04	0	4	-1.056547619
78	4	11.03	13.93	0	4	-1.086309524
78	5	15.02	12.68	0	4	-1.071428571
78	6	17.47	10.58	0	4	-1.076388889
78	7	13.64	9.42	0	4	-1.225198413
78	8	8.69	9.44	0	4	-1.423611111
78	9	345	6.16	0	3	-1.557539683
78	10	338.07	5.42	0	3	-1.671626984

78	11	338.39	5.83	0	2	-1.731150794
78	12	327.05	4.99	0	2	-1.765873016
78	13	332.3	5.5	0	2	-1.741071429
78	14	338.58	5.45	0	3	-1.661706349
78	15	307.37	4.32	0	3	-1.537698413
78	16	293.49	3.55	0	4	-1.160714286
78	17	318.41	2.44	0	4	-1.011904762
78	18	75.21	3.11	0	4	-0.66468254
78	19	44.11	3.15	0	5	-0.456349206
78	20	131	1.9	0	5	-0.302579365
78	21	99.67	2.6	0	5	-0.079365079
78	22	147.57	2.33	0	5	-0.178571429
78	23	183.16	2.51	0	5	-0.391865079
79	0	113.9	1.98	0	5	-0.441468254
79	1	162.39	1.38	0	5	-0.317460317
79	2	13.18	2.12	0	4	-0.649801587
79	3	39.9	4.04	0	5	-0.357142857
79	4	25.72	4.57	0	5	-0.188492063
79	5	30.17	3.67	0	5	-0.362103175
79	6	46.18	3.4	0	5	-0.426587302
79	7	22.95	4.16	0	4	-0.932539683
79	8	53.94	4.33	0	4	-1.106150794
79	9	85.42	5.11	0	4	-1.383928571
79	10	174.06	5.77	0	4	-1.349206349
79	11	191.07	9.59	0	3	-1.527777778
79	12	184.18	9.72	0	3	-1.567460317
79	13	183.51	10.68	0	2	-1.736111111
79	14	186.61	10.22	0	3	-1.607142857
79	15	183.33	9.26	0	4	-1.443452381
79	16	173.05	7.34	0	4	-1.284722222
79	17	170.54	6.32	0	4	-1.051587302
79	18	170.69	5.47	0	4	-0.709325397
79	19	168.22	4.04	0	4	-0.560515873
79	20	169.67	3.39	0	5	-0.476190476
79	21	180.56	3.35	0	5	-0.476190476
79	22	160.21	2.23	0	4	-0.520833333
79	23	120.82	1.98	0	5	-0.262896825
80	0	24.25	1.91	0	5	0.004960317
80	1	12.66	3.07	0	5	0.203373016
80	2	32.07	5.63	0	5	0
80	3	34.91	3.96	0	4	-0.540674603
80	4	22.43	3.33	0	4	-0.868055556
80	5	41.87	3.86	0	4	-0.902777778
80	6	51.79	3.78	0	4	-0.927579365
80	7	66.7	3.92	0	4	-1.036706349
80	8	59.65	4.26	0	4	-1.145833333
80	9	35.58	5.14	0	4	-1.23015873
80	10	41.94	4.93	0	4	-1.26984127
80	11	223.51	4.77	0	4	-1.408730159

80	12	255.49	4.51	0	4	-1.398809524
80	13	235.12	5.47	0	4	-1.438492063
80	14	187.46	5.77	0	4	-1.195436508
80	15	179.68	6.16	0	4	-1.274801587
80	16	175.82	7.42	0	4	-1.235119048
80	17	178.63	5.6	0	4	-0.967261905
80	18	160.79	3.38	0	4	-0.773809524
80	19	137.02	3.1	0	4	-0.932539683
80	20	142.86	2.62	0	4	-0.947420635
80	21	144.12	3.01	0	4	-0.962301587
80	22	129.24	3.09	0	4	-0.97718254
80	23	93.16	2.7	0	4	-0.95734127
81	0	76.04	4.51	0	4	-0.97718254
81	1	52.72	6.25	0	4	-1.031746032
81	2	48.02	5.27	0	4	-1.021825397
81	3	48.62	5.29	0	4	-0.967261905
81	4	42.4	6.51	0	4	-0.967261905
81	5	33.97	6.4	0	4	-0.947420635
81	6	37.81	5.93	0	4	-1.001984127
81	7	43.25	6.75	0	4	-1.031746032
81	8	38.46	7.93	0	4	-1.061507937
81	9	35.89	7.34	0	4	-1.096230159
81	10	40.08	8.66	0	4	-1.140873016
81	11	41.35	7.83	0	4	-1.160714286
81	12	45.13	9.04	0	4	-1.21031746
81	13	42.47	7.45	0	4	-1.150793651
81	14	40.38	7.36	0	4	-1.121031746
81	15	49.23	6.6	0	4	-1.081349206
81	16	48.75	5.8	0	4	-1.006944444
81	17	57.72	6.58	0	4	-0.99702381
81	18	55.31	6.83	0	4	-0.972222222
81	19	54.54	7.03	0	4	-0.972222222
81	20	40.71	7.62	0	4	-0.992063492
81	21	49.42	8.11	0	4	-0.987103175
81	22	38.26	7.49	0	4	-0.992063492
81	23	48.3	7.89	0	4	-0.992063492
82	0	41.82	7.71	0	4	-0.992063492
82	1	38.53	7.86	0	4	-0.97718254
82	2	37.16	8.87	0	4	-0.992063492
82	3	31.79	8.68	0	4	-0.992063492
82	4	31.06	8.08	0	4	-0.967261905
82	5	23.8	6.16	0	4	-0.982142857
82	6	28.07	6.68	0	4	-0.95734127
82	7	31.83	7.77	0	4	-1.016865079
82	8	29.47	8.96	0	4	-1.061507937
82	9	25.01	8.15	0	4	-1.150793651
82	10	24.31	7.79	0	4	-1.150793651
82	11	15.17	6.64	0	4	-1.245039683
82	12	11.07	5.74	0	4	-1.245039683

82	13	5.96	4.88	0	4	-1.21031746
82	14	334.72	4.09	0	4	-1.314484127
82	15	220.95	4.49	0	4	-1.051587302
82	16	202.52	4.25	0	4	-1.170634921
82	17	169.56	5.97	0	4	-0.868055556
82	18	157.25	4.33	0	5	-0.337301587
82	19	156.18	2.92	0	5	-0.208333333
82	20	150.21	1.64	0	5	-0.138888889
82	21	130.64	1.62	0	5	0.173611111
82	22	21.24	2.23	0	5	0.590277778
82	23	23.89	1.47	0	5	0.753968254
83	0	120.19	1.98	0	5	0.555555556
83	1	10.21	2.24	0	5	0.079365079
83	2	24.98	2.75	0	5	0.694444444
83	3	30.01	4.15	0	5	0.887896825
83	4	19.21	2.86	0	5	1.215277778
83	5	29.16	3.42	0	5	1.398809524
83	6	39.39	2.89	0	5	1.25
83	7	50.5	1.82	0	5	0.302579365
83	8	223	2.61	0	4	-0.768849206
83	9	211.24	2.84	0	4	-0.734126984
83	10	220.63	3.83	0	4	-0.64484127
83	11	347.58	5.39	0	4	-1.339285714
83	12	350.6	6.73	0	3	-1.617063492
83	13	343.26	6.61	0	3	-1.641865079
83	14	348.05	6.16	0	3	-1.527777778
83	15	2.18	5.83	0	4	-1.463293651
83	16	22.18	5.99	0	4	-1.21031746
83	17	7.24	4.62	0	4	-0.942460317
83	18	0.67	3.86	0	5	-0.381944444
83	19	19.85	2.77	0	5	0.649801587
83	20	224.83	1.68	0	6	2.455357143
83	21	28.1	1.68	0	6	2.554563492
83	22	15.29	6.07	0	5	0.773809524
83	23	10.73	5.69	0	5	0.009920635
84	0	35.41	5.65	0	5	-0.009920635
84	1	25.08	5.04	0	5	0.064484127
84	2	8.97	3.8	0	5	0.391865079
84	3	7.93	5.01	0	5	-0.193452381
84	4	4.62	5.77	0	5	-0.009920635
84	5	26.01	6.03	0	5	0.763888889
84	6	26.67	6.3	0	5	0.625
84	7	20.53	5.8	0	5	-0.114087302
84	8	340.87	5.86	0	4	-0.947420635
84	9	351.2	6.94	0	4	-1.279761905
84	10	353.44	5.84	0	3	-1.5625
84	11	351.06	5.91	0	2	-1.701388889
84	12	358.82	6.35	0	3	-1.661706349
84	13	351.28	5.75	0	3	-1.641865079

84	14	354.3	5.17	0	3	-1.552579365
84	15	339.86	4.54	0	4	-1.443452381
84	16	20.67	4.11	0	4	-1.21031746
84	17	197.28	2.74	0	4	-0.838293651
84	18	181.56	2.29	0	5	0.327380952
84	19	211.13	2.32	0	5	1.001984127
84	20	198.53	2.46	0	5	1.225198413
84	21	241.71	2.13	0	5	1.205357143
84	22	258.3	2.7	0	5	0.972222222
84	23	267.55	1.83	0	5	1.170634921
85	0	8.18	1.65	0	6	1.91468254
85	1	356.36	2	0	6	2.653769841
85	2	4.92	2.2	0	6	2.638888889
85	3	22.4	1.66	0	6	2.509920635
85	4	5.19	1.3	0	6	2.549603175
85	5	27.82	1.12	0	6	2.51984127
85	6	281.96	1.09	0	6	2.177579365
85	7	170.48	1.51	0	5	0.669642857
85	8	202.58	3.07	0	4	-0.575396825
85	9	209.72	4.44	0	4	-0.729166667
85	10	172.26	6.89	0	4	-1.121031746
85	11	158.88	7.31	0	4	-1.25
85	12	159.16	8.2	0	2	-1.760912698
85	13	153.14	7.14	0	4	-0.793650794
85	14	161.22	6.69	0	4	-0.838293651
85	15	161.24	7	0	4	-1.488095238
85	16	154.99	5.71	0	4	-0.902777778
85	17	160.89	5.31	0	5	-0.367063492
85	18	150.47	3.41	0	5	-0.044642857
85	19	171.59	3.74	0	5	0.05952381
85	20	199.27	2.21	0	5	0.421626984
85	21	315.61	2.93	0	5	0.163690476
85	22	210.37	2.56	0	5	0.282738095
85	23	73.8	2.38	0	5	0.277777778
86	0	50.98	4.19	0.02	5	1.145833333
86	1	191.48	1.89	0	6	2.688492063
86	2	130.06	2.09	0	6	3.616071429
86	3	329	3.06	0	6	2.529761905
86	4	317.77	2.87	0	5	-0.074404762
86	5	314.97	3.85	0	5	-0.486111111
86	6	323.59	5.85	0	4	-0.724206349
86	7	296.11	3.58	0	4	-0.887896825
86	8	283.91	8.58	0	4	-1.19047619
86	9	296.35	8.86	0	4	-1.433531746
86	10	308.21	7.98	0	3	-1.661706349
86	11	286.62	8.86	0	2	-1.785714286
86	12	294.33	9.11	0	2	-1.731150794
86	13	314.27	8.15	0	3	-1.547619048
86	14	303.82	7.49	0	4	-1.299603175

86	15	294.48	7.63	0	4	-1.245039683
86	16	287.06	7.12	0	4	-1.264880952
86	17	290.77	6.64	0	4	-0.962301587
86	18	281.08	5.01	0	4	-0.590277778
86	19	275.21	4.47	0	5	-0.257936508
86	20	308.33	4.58	0	5	-0.257936508
86	21	348.32	6.35	0	4	-0.729166667
86	22	18.35	7.49	0	4	-0.550595238
86	23	28.17	3.79	0	5	-0.416666667
87	0	21.7	2.68	0	5	0.213293651
87	1	11.53	2.93	0	5	0.9375
87	2	327.03	1.79	0	5	1.398809524
87	3	13.07	2.63	0	5	1.423611111
87	4	21.29	3.58	0	6	1.81547619
87	5	24.97	3.04	0	6	1.820436508
87	6	11.49	2.12	0	5	1.354166667
87	7	228.19	1.6	0	5	0.307539683
87	8	173.63	4.12	0	4	-1.041666667
87	9	158.85	6.21	0	3	-1.626984127
87	10	165.64	8.92	0	2	-1.731150794
87	11	159.83	8.99	0	2	-1.800595238
87	12	166.7	9.04	0	3	-1.567460317
87	13	163.73	8.71	0	4	-1.463293651
87	14	162.96	8.34	0	4	-1.478174603
87	15	161.39	9.13	0	4	-1.388888889
87	16	160.34	6.39	0	4	-1.086309524
87	17	151.99	5.82	0	4	-0.887896825
87	18	154.82	4.17	0	4	-0.778769841
87	19	142.24	2.74	0	4	-0.768849206
87	20	62.98	2.49	0	4	-0.803571429
87	21	67.02	2.63	0	4	-0.744047619
87	22	49.95	2.21	0	4	-0.595238095
87	23	10.24	4.32	0	5	-0.203373016
88	0	3.8	5.88	0.07	5	-0.302579365
88	1	22.68	3.55	0.21	5	0.238095238
88	2	15.79	4.29	0.16	5	0.064484127
88	3	12.27	4.55	0.28	4	-0.922619048
88	4	3.39	3.96	0.12	5	0.302579365
88	5	29.87	2.05	0.03	5	0.793650794
88	6	156.31	5.78	0	4	-0.818452381
88	7	211.52	4.54	0	4	-0.887896825
88	8	263.37	6.72	0	4	-0.808531746
88	9	247.84	4.9	0	4	-1.001984127
88	10	225.74	4.81	0	4	-1.051587302
88	11	249.84	8.09	0	4	-1.195436508
88	12	262.47	8.96	0	4	-1.284722222
88	13	265.73	10.08	0	4	-1.418650794
88	14	271.36	9.54	0	4	-1.374007937
88	15	267.11	8.27	0	4	-1.354166667

88	16	220.95	4.95	0	4	-1.160714286
88	17	175.82	6.17	0	4	-0.629960317
88	18	194.19	9.81	0	4	-0.570436508
88	19	190.88	9.24	0	4	-0.525793651
88	20	191.21	9.92	0	4	-0.68452381
88	21	185.56	8.35	0	4	-0.634920635
88	22	184.68	8.42	0	4	-0.734126984
88	23	187.44	5.34	0	4	-0.753968254
89	0	179.37	4.8	0	4	-0.694444444
89	1	183.73	4.44	0	4	-0.694444444
89	2	192.11	3.69	0	5	-0.471230159
89	3	261.59	4.33	0	5	-0.451388889
89	4	204.39	3.37	0	5	-0.421626984
89	5	168.45	3.5	0	5	0.034722222
89	6	199.9	3.9	0	4	-0.535714286
89	7	210.98	6.31	0	4	-1.111111111
89	8	247.49	8.54	0	4	-1.235119048
89	9	246.53	9.76	0	4	-1.413690476
89	10	245.47	9.79	0	4	-1.274801587
89	11	255.38	10.57	0	4	-1.259920635
89	12	246.15	10.12	0	4	-1.200396825
89	13	251.17	10.38	0	4	-1.155753968
89	14	284.08	8.58	0	4	-1.165674603
89	15	278.93	7.26	0	4	-0.863095238
89	16	275.68	8.9	0	4	-1.096230159
89	17	276.65	7.68	0	4	-0.967261905
89	18	269.93	6.92	0	4	-0.833333333
89	19	270.43	5.39	0	4	-0.793650794
89	20	261.1	5.24	0	4	-0.793650794
89	21	271.75	6.08	0	4	-0.68452381
89	22	279.86	6.5	0	4	-0.704365079
89	23	276.33	6.24	0	4	-0.744047619
90	0	262.82	4.62	0	4	-0.709325397
90	1	220.84	3.3	0	4	-0.550595238
90	2	231.9	2.64	0	5	-0.25297619
90	3	219.93	2.3	0	5	0.555555556
90	4	225.99	2.16	0	5	0.302579365
90	5	184.37	2.97	0	5	-0.004960317
90	6	193.72	3.97	0	5	-0.302579365
90	7	244.17	4.94	0	4	-0.89781746
90	8	245.65	5.24	0	4	-1.334325397
90	9	278.06	6.91	0	4	-1.349206349
90	10	274.58	4.74	0	4	-1.408730159
90	11	268.6	5.32	0	4	-1.473214286
90	12	330.56	5.23	0	4	-1.463293651
90	13	331.91	4.68	0	4	-1.235119048
90	14	309.32	4.99	0	3	-1.547619048
90	15	318.55	4.62	0	4	-1.413690476
90	16	332.09	5.86	0	4	-1.175595238

90	17	341.09	6.5	0	4	-0.97718254
90	18	334.57	6.92	0	4	-0.848214286
90	19	330.43	7.06	0	4	-0.853174603
90	20	328.65	6.96	0	4	-0.798611111
90	21	336.41	6.81	0	4	-0.793650794
90	22	336.63	7.19	0	4	-0.818452381
90	23	329.11	4.99	0	4	-0.773809524
91	0	327.67	5.84	0	4	-0.600198413
91	1	331.45	5.01	0	4	-0.555555556
91	2	328.63	5.34	0	5	-0.396825397
91	3	338.44	4.59	0	4	-0.575396825
91	4	339.25	4.73	0	5	0.089285714
91	5	104.35	2.87	0	5	0.124007937
91	6	132.4	2.35	0	5	0.009920635
91	7	125.06	3.26	0	4	-0.763888889
91	8	321.92	4.97	0	3	-1.52281746
91	9	343.88	4.96	0	3	-1.547619048
91	10	2.09	7.16	0	3	-1.587301587
91	11	4.71	6.63	0	3	-1.517857143
91	12	5.67	7.04	0	4	-1.408730159
91	13	349.18	5.91	0	4	-1.364087302
91	14	296.28	6.59	0	3	-1.52281746
91	15	298.7	7.53	0	4	-1.483134921
91	16	331.61	7.64	0	4	-1.378968254
91	17	337.5	6.06	0	4	-1.150793651
91	18	350.93	6.28	0	4	-0.793650794
91	19	24.51	7.53	0	4	-0.848214286
91	20	27	4.52	0	4	-0.654761905
91	21	4.06	2.11	0	5	-0.153769841
91	22	81.63	2.32	0	5	0.724206349
91	23	22.28	2.13	0	5	1.463293651
92	0	20.85	2.32	0	6	1.671626984
92	1	53.44	3.42	0	6	2.177579365
92	2	358.44	2.1	0	6	2.554563492
92	3	21.18	3.36	0	6	2.886904762
92	4	25.1	2.67	0	6	2.916666667
92	5	17.69	3.23	0	6	2.574404762
92	6	35.28	2.8	0	6	2.430555556
92	7	180.98	1.94	0	5	0.233134921
92	8	261.64	2.59	0	5	-0.248015873
92	9	226.28	3.82	0	4	-0.535714286
92	10	172.2	4.86	0	4	-0.932539683
92	11	213.58	4.41	0	4	-1.254960317
92	12	230.67	4.97	0	4	-1.403769841
92	13	246.19	5.92	0	3	-1.512896825
92	14	180.14	5.49	0	4	-1.418650794
92	15	186.54	4.99	0	4	-1.220238095
92	16	158.91	4.33	0	4	-1.279761905
92	17	162.76	6.2	0	4	-0.753968254

92	18	152.35	6.68	0	5	-0.124007937
92	19	152.61	4.69	0	5	0.094246032
92	20	174.63	2.55	0	5	0.193452381
92	21	250.61	1.96	0	5	0.337301587
92	22	228.22	1.63	0	5	0.337301587
92	23	287.45	1.46	0	5	0.416666667
93	0	179.49	1.43	0	5	0.27281746
93	1	346.35	1.54	0	5	1.026785714
93	2	22.07	1.51	0	5	1.443452381
93	3	12.18	1.61	0	5	1.428571429
93	4	322.76	1.49	0	6	1.800595238
93	5	128.4	1.49	0	6	1.651785714
93	6	355.09	1.29	0	6	1.552579365
93	7	325.27	1.23	0	5	0.540674603
93	8	191.98	2.68	0	5	-0.376984127
93	9	201.31	4.37	0	4	-0.689484127
93	10	186.87	4.01	0	4	-0.947420635
93	11	161.44	6.2	0	4	-1.488095238
93	12	162.21	6.79	0	4	-1.165674603
93	13	185.37	11.75	0	4	-1.28968254
93	14	192.16	11.08	0	4	-1.354166667
93	15	187.28	11.24	0	4	-1.220238095
93	16	191.7	12.22	0	4	-1.036706349
93	17	187.89	9.17	0	4	-0.694444444
93	18	187.76	7.21	0	5	-0.421626984
93	19	185.37	5.42	0	5	-0.441468254
93	20	182.63	7.28	0	5	-0.347222222
93	21	185.11	7.6	0	4	-0.56547619
93	22	187.93	6.49	0	4	-0.753968254
93	23	182.21	4.54	0	4	-0.699404762
94	0	167.85	3.26	0	5	-0.277777778
94	1	184.66	5.07	0	4	-0.64484127
94	2	136.49	1.95	0	5	-0.491071429
94	3	165.38	2.01	0	5	-0.267857143
94	4	192.06	1.52	0	5	0.004960317
94	5	159.14	2.04	0	5	0.143849206
94	6	233.76	1.72	0	5	0.739087302
94	7	229.71	1.98	0	5	0.25297619
94	8	166.81	2.75	0	5	0.223214286
94	9	172.19	3.58	0	4	-0.58531746
94	10	157.15	5.14	0	4	-1.046626984
94	11	162.28	5.2	0	4	-1.314484127
94	12	155.01	4.95	0	4	-1.383928571
94	13	149.45	5.19	0	4	-1.473214286
94	14	149.37	5.68	0	4	-1.438492063
94	15	152.95	5.72	0	4	-1.215277778
94	16	154.93	6.07	0	4	-0.828373016
94	17	153.39	4.9	0	4	-0.709325397
94	18	162.21	3.87	0	5	-0.213293651

94	19	218.07	2.51	0	5	0.391865079
94	20	200.69	3.06	0	5	0.669642857
94	21	187.74	1.86	0	5	0.347222222
94	22	165.37	3.83	0	5	0.034722222
94	23	190.71	2.93	0	5	0.704365079
95	0	183.61	5.67	0.06	5	-0.119047619
95	1	164.29	3.18	0.43	5	-0.120701058
95	2	160.65	5.44	0	5	-0.122354497
95	3	167.72	5.55	0	5	-0.124007937
95	4	165.74	5.38	0	5	-0.125661376
95	5	163.7	4.54	0	5	-0.127314815
95	6	157.89	3.64	0.05	5	-0.128968254
95	7	268.66	1.8	0	5	-0.130621693
95	8	199.25	2.99	0	5	-0.132275132
95	9	179.39	8.78	0	5	-0.133928571
95	10	183.33	11.57	0	4	-0.56547619
95	11	186.25	11.73	0	4	-0.952380952
95	12	188.67	11.58	0	4	-0.778769841
95	13	187.44	12.16	0	4	-0.873015873
95	14	189.43	9.58	0	4	-0.833333333
95	15	243.51	7.49	0.03	4	-0.610119048
95	16	287.68	5.82	0	4	-0.843253968
95	17	283.39	4.93	0	4	-0.868055556
95	18	271.39	4.36	0	4	-0.773809524
95	19	273.43	5.65	0	4	-0.753968254
95	20	289.75	8.54	0	4	-0.848214286
95	21	310.44	9.17	0	4	-1.011904762
95	22	310.2	8.91	0	4	-1.006944444
95	23	309.15	9.35	0	4	-0.99702381
96	0	309.48	7.34	0	4	-0.882936508
96	1	297.51	4.62	0	4	-0.858134921
96	2	291.64	7.74	0	4	-0.887896825
96	3	278.63	6.05	0	4	-0.823412698
96	4	293.28	5.52	0	4	-0.868055556
96	5	303.77	6.44	0	4	-0.91765873
96	6	299.06	6.27	0	4	-1.056547619
96	7	286.24	7.51	0	4	-1.185515873
96	8	295.33	9.48	0	4	-1.378968254
96	9	299.36	8.29	0	4	-1.349206349
96	10	300.23	8.42	0	4	-1.438492063
96	11	281.65	9.73	0	4	-1.378968254
96	12	284.01	9.79	0	4	-1.428571429
96	13	291.83	10.76	0	3	-1.587301587
96	14	292.31	10.54	0	4	-1.374007937
96	15	292.22	11.4	0	4	-1.304563492
96	16	290.11	9.6	0	4	-1.398809524
96	17	294.46	8.06	0	4	-1.235119048
96	18	288.17	6.23	0	4	-0.942460317
96	19	287.24	5.31	0	4	-0.848214286

96	20	284.71	4.32	0	4	-0.808531746
96	21	277.68	3.36	0	4	-0.783730159
96	22	283.61	2.92	0	4	-0.625
96	23	266.76	2.87	0	4	-0.639880952
97	0	247.99	2.53	0	5	-0.496031746
97	1	186.45	2.12	0	5	-0.302579365
97	2	218.98	2.2	0	5	-0.084325397
97	3	160.59	2.48	0	5	0.143849206
97	4	156.66	2.95	0	5	-0.243055556
97	5	148.1	2.03	0	5	-0.119047619
97	6	189.97	3.41	0	4	-0.659722222
97	7	193.36	2.99	0	4	-0.97718254
97	8	182.57	3.77	0	4	-1.031746032
97	9	235.1	2.77	0	5	-0.287698413
97	10	44.19	2.12	0	5	0.168650794
97	11	197.3	5.27	0	4	-0.95734127
97	12	156.08	7.42	0	3	-1.681547619
97	13	180.28	8.11	0	2	-1.701388889
97	14	226.35	8.68	0	4	-1.488095238
97	15	239.09	8.58	0	4	-1.26984127
97	16	228.29	6.43	0	4	-0.992063492
97	17	198.23	5.81	0	4	-0.545634921
97	18	220.84	4.16	0	5	-0.128968254
97	19	331.37	12.16	0	4	-0.719246032
97	20	336.42	8.15	0	4	-0.709325397
97	21	329.13	6.94	0	4	-0.689484127
97	22	313.88	7.38	0	4	-0.739087302
97	23	308.61	7.62	0	4	-0.788690476
98	0	302.74	4.93	0	4	-0.694444444
98	1	267.69	3.48	0	4	-0.634920635
98	2	302.21	4.42	0	4	-0.620039683
98	3	335.92	4.45	0	4	-0.724206349
98	4	312.98	5.18	0	4	-0.768849206
98	5	291.51	3.37	0	4	-0.595238095
98	6	284.37	5.07	0	4	-0.818452381
98	7	292.15	4.53	0	4	-1.299603175
98	8	312.45	4.78	0	4	-1.473214286
98	9	309	4.9	0	4	-1.448412698
98	10	267.84	4.46	0	4	-1.453373016
98	11	241.82	3.76	0	4	-1.245039683
98	12	165.71	5.37	0	4	-1.364087302
98	13	153.04	5.09	0	4	-1.473214286
98	14	151.32	4.89	0	4	-1.334325397
98	15	153.42	4.46	0	4	-1.235119048
98	16	167.49	3.55	0	4	-0.962301587
98	17	154.25	4.65	0	4	-0.610119048
98	18	158.89	4.77	0	5	-0.362103175
98	19	163.89	3.18	0	5	0.034722222
98	20	174.55	3.78	0	5	-0.074404762

98	21	188.95	2.5	0	5	-0.228174603
98	22	179.92	3.39	0	5	-0.124007937
98	23	189.21	5.76	0	4	-0.615079365
99	0	194.42	4.16	0	5	-0.491071429
99	1	222.46	2.23	0	5	-0.257936508
99	2	208.39	1.98	0	5	-0.277777778
99	3	213.18	1.79	0	5	-0.446428571
99	4	203.73	1.93	0	4	-0.505952381
99	5	190.73	2.76	0	5	-0.476190476
99	6	180.05	3.03	0	4	-0.654761905
99	7	173.36	4.63	0	4	-0.99702381
99	8	168.85	5.68	0	4	-1.314484127
99	9	156.18	6.7	0	2	-1.711309524
99	10	156.46	9.23	0	2	-1.820436508
99	11	160.27	9.36	0	1	-1.93452381
99	12	155.97	10.92	0	2	-1.805555556
99	13	161.08	12.61	0	3	-1.681547619
99	14	158.54	13	0	3	-1.54265873
99	15	159.42	13.81	0	4	-1.254960317
99	16	161.53	13.59	0	4	-0.952380952
99	17	158.64	11.56	0	5	-0.267857143
99	18	158.7	10.55	0	5	-0.347222222
99	19	240.83	6.25	0	4	-0.813492063
99	20	294.03	4.71	0	4	-1.086309524
99	21	293.72	5.22	0	4	-1.066468254
99	22	340.16	6.04	0	4	-1.046626984
99	23	329.02	7.33	0	4	-1.066468254
100	0	341.32	7.37	0	4	-1.006944444
100	1	345.53	8.41	0	4	-0.982142857
100	2	351.26	8.85	0.03	4	-0.962301587
100	3	326.49	7.2	0.12	4	-0.962301587
100	4	333.86	7.76	0.02	4	-0.967261905
100	5	330.17	8.06	0	4	-0.91765873
100	6	340.92	10.04	0.01	4	-0.615079365
100	7	320	8.4	0.02	5	0.327380952
100	8	310.59	9.71	0.04	5	0.421626984
100	9	317.57	13.19	0.01	5	0.158730159
100	10	315.16	10.34	0.03	5	0.034722222
100	11	297.08	9.29	0.01	5	-0.109126984
100	12	294.06	9.18	0.01	5	-0.367063492
100	13	283.37	7.93	0	5	0.094246032
100	14	282.45	9.74	0	7	4.742063492
100	15	276.8	9.08	0	4	-0.982142857
100	16	280.99	7.54	0	4	-0.907738095
100	17	288.64	6.84	0	4	-0.89781746
100	18	271.52	6.26	0	4	-0.734126984
100	19	271.12	5.75	0	4	-0.68452381
100	20	258.65	4.9	0	4	-0.699404762
100	21	287.61	6.41	0	4	-0.719246032

100	22	272.14	4.77	0	4	-0.714285714
100	23	262.9	6.39	0	4	-0.66468254
101	0	259.61	6.6	0	4	-0.699404762
101	1	234.16	3.84	0	4	-0.679563492
101	2	213.03	3.72	0	4	-0.634920635
101	3	182.34	3.68	0	4	-0.520833333
101	4	178.38	3.96	0	5	-0.367063492
101	5	185.14	3.32	0	4	-0.525793651
101	6	197.4	3.2	0	4	-0.858134921
101	7	209.06	5.68	0	4	-1.135912698
101	8	282.19	5.7	0	4	-1.413690476
101	9	289.37	8.64	0	3	-1.5625
101	10	272.04	9.04	0	2	-1.741071429
101	11	275.47	9.16	0	2	-1.770833333
101	12	290.08	8.64	0	2	-1.785714286
101	13	309.54	7.31	0	2	-1.780753968
101	14	293.33	9.23	0	3	-1.691468254
101	15	313.64	7.72	0	3	-1.666666667
101	16	306.35	7.08	0	3	-1.507936508
101	17	323.44	6.15	0	4	-1.264880952
101	18	336.65	5.98	0	4	-0.927579365
101	19	353.78	6.37	0	4	-0.853174603
101	20	350.5	7.15	0	4	-0.838293651
101	21	344.61	5.08	0	4	-0.808531746
101	22	357.93	4.2	0	4	-0.773809524
101	23	25.43	3.24	0	5	-0.37202381
102	0	31.79	4.48	0	4	-0.510912698
102	1	40.43	3.73	0	4	-0.560515873
102	2	89.97	2.28	0	5	-0.327380952
102	3	126.63	1.96	0	5	-0.29265873
102	4	60.38	2.08	0	5	-0.064484127
102	5	14.5	2.65	0	5	-0.064484127
102	6	26.42	3.79	0	5	-0.362103175
102	7	26.7	3.5	0	4	-0.952380952
102	8	12.93	2.64	0	4	-1.001984127
102	9	206.84	3.92	0	4	-1.036706349
102	10	164.48	5.84	0	4	-1.200396825
102	11	194.52	5.08	0	4	-1.096230159
102	12	190.12	4.57	0	4	-1.096230159
102	13	167.37	2.95	0	4	-1.071428571
102	14	86.88	3.33	0	4	-1.135912698
102	15	53.9	3.82	0	4	-1.150793651
102	16	51.89	2.29	0	4	-1.061507937
102	17	111.3	2.4	0	4	-1.106150794
102	18	106.71	2.44	0	4	-1.016865079
102	19	104.61	1.83	0	4	-0.89781746
102	20	107.71	2	0	4	-0.858134921
102	21	150.63	2.04	0	4	-0.863095238
102	22	122.42	1.75	0	4	-0.813492063

102	23	87.35	1.64	0	4	-0.773809524
103	0	71.96	1.9	0	4	-0.60515873
103	1	231.48	1.86	0	5	-0.436507937
103	2	262.19	1.68	0	5	-0.471230159
103	3	86.15	2.01	0	5	-0.486111111
103	4	116.06	1.73	0	5	-0.327380952
103	5	276	3.38	0	5	-0.238095238
103	6	293.01	7.15	0	4	-0.992063492
103	7	309.88	8.88	0	4	-1.349206349
103	8	305.52	9.52	0	3	-1.557539683
103	9	305.56	7.89	0	2	-1.731150794
103	10	310.95	8.43	0	2	-1.83531746
103	11	326.47	8.51	0	2	-1.800595238
103	12	314.71	10.25	0	1	-1.924603175
103	13	324.36	10.04	0	2	-1.845238095
103	14	315.66	10.5	0	2	-1.790674603
103	15	321.24	10.83	0	3	-1.661706349
103	16	319.11	8.86	0	3	-1.532738095
103	17	327.25	9.76	0	4	-1.25
103	18	333.23	7.66	0	4	-1.016865079
103	19	338.78	5.81	0	4	-0.863095238
103	20	310.98	4.89	0	4	-0.818452381
103	21	306.6	4.65	0	4	-0.788690476
103	22	303.15	3.95	0	4	-0.699404762
103	23	315.75	3.04	0	4	-0.66468254
104	0	326.02	4.68	0	4	-0.659722222
104	1	322.68	5.15	0	4	-0.848214286
104	2	0.67	4.39	0	4	-0.724206349
104	3	330.57	3.44	0	4	-0.610119048
104	4	2.49	2.59	0	5	-0.441468254
104	5	359.05	2.67	0	5	0.034722222
104	6	35.32	3.11	0	5	-0.277777778
104	7	28.69	3.15	0	4	-0.9375
104	8	18.92	4.64	0	4	-1.19047619
104	9	359.48	4.686666667	0	4	-1.38723545
104	10	340.04	4.733333333	0	3	-1.583994709
104	11	320.6	4.78	0	2	-1.780753968
104	12	262.91	4.4	0	4	-1.443452381
104	13	332.41	3.58	0	4	-1.468253968
104	14	265.79	4.01	0	4	-1.299603175
104	15	165.28	5.62	0	3	-1.532738095
104	16	162.88	6.26	0	3	-1.577380952
104	17	164.67	7.26	0	4	-1.324404762
104	18	172.555	8.705	0	4	-1.076388889
104	19	180.44	10.15	0	4	-0.828373016
104	20	177.88	7.26	0	4	-0.873015873
104	21	183.35	6.88	0	4	-0.699404762
104	22	186.95	7.62	0	4	-0.714285714
104	23	185.24	7.43	0	4	-0.808531746

105	0	186.45	5.11	0	4	-0.68452381
105	1	180.33	4.75	0	4	-0.545634921
105	2	199.98	2.67	0	4	-0.525793651
105	3	255.79	2.02	0	5	-0.29265873
105	4	356.07	2.19	0	5	0.054563492
105	5	14.88	2.98	0	5	0.208333333
105	6	20.72	3.32	0	5	0.173611111
105	7	6.74	2.2	0	4	-0.778769841
105	8	174.07	5.15	0	4	-1.324404762
105	9	171.71	6.22	0	3	-1.52281746
105	10	157.04	6.57	0	1	-1.904761905
105	11	162.95	9.1	0	2	-1.845238095
105	12	160.58	8.91	0	1	-2.003968254
105	13	153.35	8.11	0	1	-2.162698413
105	14	149.62	8.04	0	1	-1.939484127
105	15	152.62	7.91	0	2	-1.83531746
105	16	154.42	7.91	0	3	-1.636904762
105	17	156.89	8.16	0	4	-1.205357143
105	18	161.64	8	0	4	-0.763888889
105	19	164.19	6	0	4	-0.595238095
105	20	173.36	6.61	0	4	-0.615079365
105	21	184.96	4.41	0	4	-0.510912698
105	22	219.71	1.99	0	5	-0.406746032
105	23	201.93	1.72	0	5	-0.109126984
106	0	194.56	1.49	0	5	0.218253968
106	1	174.33	1.44	0	5	0.64484127
106	2	74.17	1.72	0	5	0.56547619
106	3	355.69	1.48	0	5	0.595238095
106	4	356.37	1.91	0	5	0.734126984
106	5	21.37	4.41	0	5	0.952380952
106	6	9.47	2.67	0	5	0.188492063
106	7	36.64	2.76	0	5	-0.401785714
106	8	69.85	3.12	0	4	-0.778769841
106	9	179.47	3.86	0	4	-1.011904762
106	10	218.05	2.03	0	4	-1.076388889
106	11	257.96	2.79	0	4	-0.843253968
106	12	208.57	4.64	0	4	-1.056547619
106	13	166.72	6.29	0	4	-1.428571429
106	14	160.66	5.63	0	4	-1.473214286
106	15	158.01	5.66	0	4	-1.498015873
106	16	157.73	5.08	0	4	-0.689484127
106	17	160.49	3.78	0	5	-0.411706349
106	18	158.63	3.32	0	5	-0.094246032
106	19	158.37	4.18	0	5	-0.173611111
106	20	167.73	2.72	0	5	0.029761905
106	21	185.31	1.14	0	5	0.277777778
106	22	185.29	1.69	0	5	-0.009920635
106	23	185.31	1.12	0	5	0.218253968
107	0	185.32	1.45	0	5	0.183531746

107	1	185.23	2.22	0	5	0.277777778
107	2	183.71	2.81	0	5	-0.074404762
107	3	184.13	2.65	0	5	-0.183531746
107	4	184.25	2.06	0	5	-0.014880952
107	5	57.2	3.04	0	5	0.491071429
107	6	32.62	1.76	0	5	0.25297619
107	7	32.64	1.54	0	5	0.079365079
107	8	31.94	1.41	0	5	0.014880952
107	9	26.62	2.34	0	5	0.004960317
107	10	182.53	3.9	0	5	0.33234127
107	11	222.76	3.82	0	4	-0.64484127
107	12	197.17	4.67	0	5	0.01984127
107	13	195.45	5.05	0	5	0.406746032
107	14	218.39	3.46	0	5	1.165674603
107	15	218.95	3.79	0	5	0.570436508
107	16	227.59	2.85	0	5	0.213293651
107	17	1.48	9.76	0	4	-0.744047619
107	18	12.39	10.58	0	4	-0.962301587
107	19	20.91	7.99	0	4	-1.046626984
107	20	15.89	9.14	0	4	-1.076388889
107	21	2.44	10.98	0	4	-0.982142857
107	22	8.4	9.18	0	4	-1.006944444
107	23	6.72	7.13	0	4	-0.992063492
108	0	5.9	8.15	0	4	-1.011904762
108	1	12.27	7.07	0	4	-1.096230159
108	2	4.82	5.97	0	4	-1.076388889
108	3	12.41	6.1	0	4	-1.106150794
108	4	8.53	6.67	0	4	-1.101190476
108	5	7	6.05	0	4	-1.081349206
108	6	13.78	4.78	0	4	-1.106150794
108	7	28.2	4.99	0	4	-1.130952381
108	8	31.64	5.98	0	4	-1.180555556
108	9	57.13	4.77	0	4	-1.170634921
108	10	58.34	3.17	0.05	4	-1.026785714
108	11	26.45	3.22	0.05	4	-0.972222222
108	12	119.33	3.25	0.04	4	-0.9375
108	13	104.72	4.09	0.01	4	-0.89781746
108	14	129.49	2.81	0.01	4	-0.892857143
108	15	106.49	3.52	0.01	4	-0.887896825
108	16	99.56	2.59	0	4	-0.833333333
108	17	82.73	2.77	0	4	-0.788690476
108	18	88.97	3.21	0.02	4	-0.818452381
108	19	113.75	3.05	0	4	-0.778769841
108	20	77.16	1.43	0	4	-0.848214286
108	21	89.03	3.24	0.01	4	-0.788690476
108	22	111.51	2.3	0.01	4	-0.719246032
108	23	58.53	4.08	0	4	-0.873015873
109	0	48.2	5.3	0.01	4	-0.91765873
109	1	30.88	8.21	0.01	4	-1.036706349

109	2	25.16	8	0	4	-1.001984127
109	3	22.2	8.55	0	4	-1.061507937
109	4	19.97	7.79	0.02	4	-1.056547619
109	5	15.31	7.3	0.1	4	-1.076388889
109	6	13.81	7.85	0.04	4	-1.125992063
109	7	17.82	9.45	0	4	-1.125992063
109	8	16.83	9.67	0	4	-1.205357143
109	9	16.37	8.29	0	4	-1.259920635
109	10	13.78	6.9	0	4	-1.26984127
109	11	33.27	9.4	0	4	-1.23015873
109	12	33.61	8.72	0	4	-1.200396825
109	13	30.38	8.22	0	4	-1.180555556
109	14	20.83	8.63	0	4	-1.235119048
109	15	24.2	8.83	0	4	-1.145833333
109	16	28.7	8.88	0	4	-1.076388889
109	17	31.27	10.22	0	4	-1.041666667
109	18	22.02	8.77	0	4	-1.016865079
109	19	26.02	10.28	0	4	-1.016865079
109	20	24.62	9.45	0	4	-1.011904762
109	21	27.18	9.74	0	4	-1.011904762
109	22	24.9	8.76	0	4	-1.016865079
109	23	15.27	8.95	0	4	-1.160714286
110	0	12.36	6.7	0	4	-1.116071429
110	1	14.99	7.27	0	4	-1.299603175
110	2	15.3	7.84	0	4	-1.096230159
110	3	12.51	7.89	0	4	-1.274801587
110	4	9.74	7.93	0	4	-1.116071429
110	5	8.01	7.96	0	4	-1.314484127
110	6	5.72	8.71	0	4	-1.130952381
110	7	9.32	8.7	0	4	-1.185515873
110	8	7.37	7.48	0	4	-1.349206349
110	9	355.04	7.27	0	4	-1.413690476
110	10	353.2	8.33	0	3	-1.651785714
110	11	349.1	8.52	0	2	-1.731150794
110	12	342.71	8.02	0	2	-1.716269841
110	13	340.42	6.65	0	3	-1.691468254
110	14	336.23	6.18	0	2	-1.750992063
110	15	338.31	6.39	0	3	-1.557539683
110	16	346.18	6.02	0	3	-1.52281746
110	17	346.64	5.91	0	4	-1.106150794
110	18	1.96	5.06	0	4	-0.753968254
110	19	7.39	5.09	0	4	-0.674603175
110	20	55.24	3.88	0	5	-0.476190476
110	21	37.77	4.3	0	4	-0.922619048
110	22	43.17	3.15	0	4	-0.932539683
110	23	37.24	2.78	0	4	-0.992063492
111	0	344.51	2.42	0	4	-0.887896825
111	1	27.27	2.62	0	4	-0.808531746
111	2	14.58	2.02	0	4	-0.540674603

111	3	171.4	1.78	0	5	-0.143849206
111	4	96.3	1.98	0	5	-0.099206349
111	5	33.98	2.16	0	5	-0.218253968
111	6	46.95	1.57	0	5	-0.416666667
111	7	354.32	2.03	0	4	-0.788690476
111	8	346.72	2.83	0	4	-0.858134921
111	9	341.16	3.32	0	4	-1.220238095
111	10	9.02	4.31	0	4	-1.30952381
111	11	203.74	4.8	0	4	-1.473214286
111	12	193.91	6.05	0	4	-1.160714286
111	13	176.07	4.09	0	4	-1.051587302
111	14	154.71	2.41	0	4	-1.061507937
111	15	159.47	4.3	0	4	-0.694444444
111	16	168.44	3.4	0	4	-0.714285714
111	17	155.79	5.18	0	4	-0.828373016
111	18	167.51	6.68	0	4	-0.615079365
111	19	155.43	5.24	0	4	-0.714285714
111	20	164.87	6.83	0	4	-0.868055556
111	21	157.6	4.1	0	4	-0.907738095
111	22	152.86	4.16	0	4	-0.982142857
111	23	162.03	5.37	0	4	-0.987103175
112	0	162.9	6.79	0	4	-1.001984127
112	1	160.36	5.77	0	4	-1.001984127
112	2	165.99	5.48	0	4	-0.962301587
112	3	167.23	4.55	0	4	-0.967261905
112	4	162.83	4.28	0	4	-0.972222222
112	5	160.34	3.24	0	4	-0.927579365
112	6	147.37	3.25	0	4	-0.887896825
112	7	152.52	4.21	0	4	-0.91765873
112	8	126.29	3.93	0	4	-0.89781746
112	9	121.4	3.71	0.01	4	-0.9375
112	10	105.53	3.43	0.01	4	-0.828373016
112	11	101.69	3.59	0.08	4	-0.887896825
112	12	54.07	3.45	0.07	4	-0.863095238
112	13	58.88	3.18	0.06	4	-0.91765873
112	14	30.27	4.89	0.14	4	-0.907738095
112	15	46.53	5.31	0.06	4	-0.912698413
112	16	57.44	4.97	0.1	4	-0.858134921
112	17	20.35	6.42	0.04	4	-0.907738095
112	18	24.75	7.79	0.36	4	-0.868055556
112	19	16.67	7.24	0	4	-0.942460317
112	20	27.41	8.09	0	4	-0.932539683
112	21	24.81	8.94	0	4	-0.947420635
112	22	30.05	8	0	4	-0.972222222
112	23	24.18	7.49	0	4	-0.927579365
113	0	16.71	8.08	0.01	4	-0.947420635
113	1	22.13	8.54	0	4	-0.987103175
113	2	21.05	8.19	0	4	-0.942460317
113	3	8.71	7.66	0	4	-1.071428571

113	4	10.5	8.68	0	4	-1.155753968
113	5	13.59	8.9	0	4	-1.259920635
113	6	6.21	8.55	0	4	-1.284722222
113	7	4.63	8.78	0	4	-1.30952381
113	8	8.03	8.82	0	4	-1.324404762
113	9	4.89	8.69	0	4	-1.433531746
113	10	4.58	8.88	0	4	-1.478174603
113	11	6.65	9.59	0	3	-1.507936508
113	12	2.53	9.61	0	3	-1.552579365
113	13	0.99	8.69	0	3	-1.5625
113	14	1.12	8.81	0	3	-1.512896825
113	15	0.46	8.26	0	4	-1.364087302
113	16	4.88	8.88	0	4	-1.160714286
113	17	5.39	8.55	0	4	-1.274801587
113	18	4.49	7.99	0	4	-1.23015873
113	19	4.28	8.2	0	4	-1.21031746
113	20	8.55	9.17	0	4	-1.235119048
113	21	9.59	9.43	0	4	-1.21031746
113	22	9.32	8.55	0	4	-1.106150794
113	23	5.92	7.48	0	4	-1.046626984
114	0	356.94	6.73	0	4	-1.016865079
114	1	359.52	7.51	0	4	-1.031746032
114	2	3.5	7.91	0	4	-1.170634921
114	3	8.34	7.68	0	4	-1.125992063
114	4	1.65	7.23	0.01	4	-1.160714286
114	5	0.79	8.66	0.05	4	-1.324404762
114	6	3.93	7.74	0.01	4	-1.284722222
114	7	6.71	7.3	0.03	4	-1.339285714
114	8	359.18	7.13	0.08	4	-1.369047619
114	9	2.4	8.05	0.02	4	-1.398809524
114	10	351.87	6.8	0.01	3	-1.507936508
114	11	337.1	4.53	0	4	-1.245039683
114	12	343.96	4.89	0	4	-1.160714286
114	13	11.88	5.36	0.02	4	-1.061507937
114	14	15.93	4.06	0.07	4	-0.932539683
114	15	345.86	4.47	0.01	4	-0.912698413
114	16	322.64	5.92	0.03	4	-0.942460317
114	17	328.42	5.67	0	4	-0.882936508
114	18	328.46	4.75	0	4	-0.922619048
114	19	329.34	6	0	4	-0.927579365
114	20	319.39	4.29	0	4	-0.902777778
114	21	305.93	5.02	0	4	-0.952380952
114	22	288.11	5.48	0	4	-0.912698413
114	23	306.38	6.45	0	4	-0.982142857
115	0	313.11	5.02	0	4	-0.887896825
115	1	297.81	4.63	0	4	-0.783730159
115	2	278.52	4.14	0	4	-0.724206349
115	3	278.79	3.94	0	4	-0.749007937
115	4	313.93	4.06	0	4	-0.68452381

115	5	338.31	5.24	0	4	-0.749007937
115	6	341.06	5.49	0	4	-1.021825397
115	7	317.92	4.73	0	4	-1.264880952
115	8	338.37	7.62	0	4	-1.354166667
115	9	339.3	7.19	0	4	-1.488095238
115	10	329.27	8.7	0	3	-1.5625
115	11	357.27	9.53	0	3	-1.612103175
115	12	330.21	8.46	0	3	-1.686507937
115	13	327.76	8.23	0	2	-1.706349206
115	14	334.84	7.05	0	3	-1.666666667
115	15	344.54	6.63	0	3	-1.646825397
115	16	356.26	5.91	0	4	-1.418650794
115	17	357.15	5.01	0	4	-1.046626984
115	18	12.36	7.24	0	4	-0.823412698
115	19	11.64	7.04	0	4	-0.679563492
115	20	9.74	7.02	0	4	-0.749007937
115	21	10.18	7.05	0	4	-0.724206349
115	22	16.34	4.03	0	4	-0.674603175
115	23	8.44	5.7	0	4	-0.734126984
116	0	4.08	5.5	0	4	-0.773809524
116	1	4.56	4.04	0	4	-0.763888889
116	2	17.47	3.17	0	5	-0.376984127
116	3	35	4.01	0	5	0.267857143
116	4	33.33	5.56	0	5	0.699404762
116	5	26.51	5.98	0	5	0.391865079
116	6	22.84	5.14	0	4	-0.719246032
116	7	27.9	7.26	0	4	-1.240079365
116	8	33.77	8.57	0	4	-1.473214286
116	9	35.89	8.56	0	4	-1.468253968
116	10	22.63	7.09	0	3	-1.512896825
116	11	56.38	6.88	0	3	-1.631944444
116	12	61.59	6.52	0	3	-1.681547619
116	13	39.94	5.14	0	4	-1.334325397
116	14	136.16	7.09	0	4	-1.388888889
116	15	176.56	9.32	0	4	-1.408730159
116	16	181.73	7.33	0	4	-1.195436508
116	17	166.48	6.22	0	4	-1.001984127
116	18	144.16	4.57	0	4	-1.111111111
116	19	136.11	2.68	0	4	-0.992063492
116	20	164.86	1.78	0	4	-0.843253968
116	21	173.66	1.6	0	4	-0.654761905
116	22	351.59	2.52	0	4	-0.659722222
116	23	45.93	6.17	0	4	-0.912698413
117	0	32.28	7.65	0	4	-1.021825397
117	1	50	8.31	0	4	-1.051587302
117	2	34.93	8.44	0	4	-1.056547619
117	3	26.88	8.51	0	4	-1.086309524
117	4	18.35	8.49	0	4	-1.121031746
117	5	18.91	8.52	0	4	-1.150793651

117	6	12.64	7.81	0	4	-1.235119048
117	7	16.95	9.26	0	4	-1.284722222
117	8	16.67	8.43	0	4	-1.274801587
117	9	15.95	6.74	0	4	-1.319444444
117	10	22.79	7.09	0	4	-1.324404762
117	11	23.09	8.09	0	4	-1.403769841
117	12	24.41	7.9	0	4	-1.453373016
117	13	12	7.28	0	4	-1.359126984
117	14	5.99	5.21	0	4	-1.319444444
117	15	15.57	7.08	0	4	-1.240079365
117	16	41.74	5.58	0	4	-1.195436508
117	17	43.19	6	0	4	-1.200396825
117	18	45.27	5.92	0	4	-1.116071429
117	19	40.27	4.95	0	4	-1.016865079
117	20	47.86	4.94	0	4	-1.011904762
117	21	31.72	5.11	0	4	-1.021825397
117	22	7.28	4.03	0	4	-1.061507937
117	23	359.74	4.22	0	4	-1.066468254
118	0	356.05	3.76	0	4	-1.021825397
118	1	3.39	4.91	0	4	-1.026785714
118	2	358.2	3.58	0	4	-1.001984127
118	3	348.01	3.18	0	4	-0.962301587
118	4	348.18	2.46	0	4	-0.942460317
118	5	226.02	1.69	0	4	-0.778769841
118	6	129.85	1.92	0	4	-0.97718254
118	7	308.78	2.5	0	4	-1.21031746
118	8	35.76	3.1	0	4	-1.334325397
118	9	175.72	3.91	0	4	-1.299603175
118	10	244.94	3.01	0	4	-1.19047619
118	11	201.27	4.7	0	4	-1.354166667
118	12	171.47	4.68	0	4	-1.254960317
118	13	173.53	5.8	0	4	-1.413690476
118	14	160.4	4.88	0	4	-1.304563492
118	15	188.33	5.57	0	4	-1.319444444
118	16	177.56	6.19	0	4	-1.264880952
118	17	186.41	5.29	0	4	-1.056547619
118	18	169.59	5.26	0	4	-0.778769841
118	19	162.94	3.69	0	5	-0.456349206
118	20	167.66	3.87	0	5	-0.441468254
118	21	177.41	4.11	0	4	-0.625
118	22	180.47	3.3	0	5	-0.243055556
118	23	185.39	2.66	0	5	-0.029761905
119	0	175.47	1.83	0	5	0.248015873
119	1	170.08	2.63	0	5	-0.01984127
119	2	175.78	2.16	0	5	-0.198412698
119	3	174.2	1.39	0	5	-0.014880952
119	4	186.1	3.11	0	5	-0.466269841
119	5	178.48	2.72	0	4	-0.66468254
119	6	178.17	3.51	0	4	-0.838293651

119	7	170.85	3.55	0	4	-1.051587302
119	8	254.73	2.89	0	4	-1.125992063
119	9	237.29	3.64	0	4	-1.25
119	10	10.45	4.31	0	4	-1.23015873
119	11	5.05	4.93	0	4	-1.284722222
119	12	6.34	6.51	0	4	-1.225198413
119	13	343.63	3.66	0	4	-1.274801587
119	14	263.25	3.51	0	4	-1.374007937
119	15	346.55	3.82	0	4	-1.433531746
119	16	18.41	3.89	0	4	-1.155753968
119	17	11.51	3.63	0	4	-1.155753968
119	18	24.93	2.62	0	4	-0.843253968
119	19	66.77	2.25	0	5	-0.079365079
119	20	162.64	2.82	0	5	0.074404762
119	21	170.94	1.65	0	5	0.03968254
119	22	18.1	2.71	0	5	1.344246032
119	23	22.38	3.88	0	6	1.889880952
120	0	28.5	4.45	0	6	2.584325397
120	1	29.36	3.89	0	6	2.698412698
120	2	27.3	2.98	0	6	2.063492063
120	3	24.48	4.82	0	6	3.174603175
120	4	33.78	7.23	0	7	4.241071429
120	5	30.59	9.67	0	6	2.901785714
120	6	28.89	7.4	0	5	0.639880952
120	7	4.23	6.67	0	4	-1.106150794
120	8	349.7	5.44	0	4	-1.195436508
120	9	344.2	5.08	0	3	-1.567460317
120	10	356.02	4.92	0	3	-1.587301587
120	11	322.17	4.36	0	2	-1.850198413
120	12	353.7	7.1	0	2	-1.741071429
120	13	358.8	9.31	0	2	-1.785714286
120	14	338.55	7.03	0	3	-1.681547619
120	15	343.06	6.28	0	3	-1.577380952
120	16	346.11	5.93	0	4	-1.349206349
120	17	258.27	3.72	0	4	-0.803571429
120	18	155.32	3.78	0	5	-0.282738095
120	19	164.61	3.1	0	5	-0.044642857
120	20	162.65	3.07	0	5	0.758928571
120	21	164.03	3.1	0	5	0.600198413
120	22	168.66	2.77	0	5	0.456349206
120	23	167.38	2.21	0	5	0.441468254
121	0	136.56	1.86	0	5	0.25297619
121	1	36.97	2.86	0	5	1.438492063
121	2	40.58	2.37	0	6	2.941468254
121	3	27.47	3.2	0	6	2.415674603
121	4	19.15	8.15	0	5	0.178571429
121	5	352.93	9.09	0	4	-0.818452381
121	6	356.42	10.06	0	4	-1.125992063
121	7	357.97	9.06	0	4	-1.378968254

121	8	3.3	9.89	0	3	-1.527777778
121	9	356.56	9.79	0	3	-1.651785714
121	10	344.9	9.72	0	2	-1.701388889
121	11	355.65	10.59	0	2	-1.865079365
121	12	336.31	9.51	0	2	-1.865079365
121	13	316.96	8.85	0	1	-1.924603175
121	14	324.79	9.03	0	2	-1.765873016
121	15	318.67	8.85	0	2	-1.721230159
121	16	308.77	8.73	0	3	-1.557539683
121	17	317.99	7.81	0	4	-1.304563492
121	18	310.05	8.1	0	4	-1.026785714
121	19	315.41	7.08	0	4	-0.858134921
121	20	327.43	8	0	4	-0.818452381
121	21	346.76	6.71	0	4	-0.873015873
121	22	336.55	6.71	0	4	-0.808531746
121	23	331.89	5.03	0	4	-0.654761905
122	0	2.03	4.34	0	5	-0.05952381
122	1	66.6	2.11	0	5	0.327380952
122	2	23.8	2.09	0	5	1.066468254
122	3	24.86	1.96	0	6	1.964285714
122	4	6.46	2.35	0	6	2.286706349
122	5	46.49	1.23	0	6	2.450396825
122	6	40.64	1.27	0	5	1.091269841
122	7	242.78	2.25	0	5	-0.3125
122	8	181.24	4.1	0	4	-1.135912698
122	9	164.04	6.56	0	3	-1.661706349
122	10	165.7	8.58	0	3	-1.686507937
122	11	166.69	9.45	0	2	-1.775793651
122	12	164.07	9.71	0	3	-1.646825397
122	13	158.17	10.19	0	1	-1.989087302
122	14	155.46	9.35	0	2	-1.865079365
122	15	152.33	6.95	0	3	-1.532738095
122	16	154.94	6.64	0	4	-0.97718254
122	17	167.12	6.85	0	4	-0.95734127
122	18	169.8	6.7	0	4	-0.838293651
122	19	159.05	3.76	0	4	-0.555555556
122	20	166.08	2.99	0	5	-0.496031746
122	21	160.34	2.41	0	5	-0.406746032
122	22	157.9	1.44	0	5	0.009920635
122	23	33.7	2.42	0	5	-0.084325397
123	0	21.68	1.92	0	5	0.153769841
123	1	141.45	1.94	0	5	-0.014880952
123	2	181.13	1.53	0	5	0.069444444
123	3	99.24	1.61	0	5	0.813492063
123	4	95.46	1.53	0.01	5	0.049603175
123	5	108.31	1.25	0.01	5	0.158730159
123	6	119.03	1.58	0	5	0.342261905
123	7	215.81	3.09	0	5	0.500992063
123	8	309.7	6.3	0	4	-1.061507937

123	9	354.57	9.21	0	4	-1.329365079
123	10	354.34	9.95	0	3	-1.612103175
123	11	347.72	8.8	0	3	-1.507936508
123	12	1.29	9.49	0	2	-1.83531746
123	13	6.15	7.69	0	3	-1.577380952
123	14	0.64	6.16	0	4	-1.478174603
123	15	28.58	6.11	0	4	-1.364087302
123	16	5.51	6.23	0	4	-1.448412698
123	17	8.64	6.86	0	4	-1.225198413
123	18	2.61	5.27	0	4	-0.729166667
123	19	325.11	2.45	0	5	0.223214286
123	20	349.17	3.95	0	5	0.074404762
123	21	5.88	4.68	0	5	0.768849206
123	22	40.02	3.78	0	5	1.051587302
123	23	41.13	3.43	0	6	1.879960317
124	0	21.53	3.15	0	6	1.790674603
124	1	17.19	3.35	0	6	2.202380952
124	2	27.8	3.67	0	6	2.266865079
124	3	38.34	4	0	6	1.979166667
124	4	37.3	3.16	0	6	2.266865079
124	5	30.97	3.73	0	6	2.881944444
124	6	17.5	3.12	0	6	1.50297619
124	7	349.39	2.45	0	4	-0.689484127
124	8	263.41	4.05	0	4	-1.155753968
124	9	198.47	6.61	0	4	-1.478174603
124	10	179.34	7.13	0	3	-1.577380952
124	11	174.11	6.93	0	3	-1.651785714
124	12	158.93	6.03	0	2	-1.820436508
124	13	147.65	6.62	0	1	-1.984126984
124	14	159.06	7.76	0	2	-1.860119048
124	15	159.1	7.22	0	2	-1.870039683
124	16	162.57	8	0	3	-1.587301587
124	17	161.04	6.85	0	4	-1.235119048
124	18	165.87	6.87	0	4	-0.828373016
124	19	164.35	6.05	0	4	-0.634920635
124	20	166.52	6.28	0	4	-0.714285714
124	21	161.9	3.94	0	4	-0.659722222
124	22	163.39	3.56	0	4	-0.580357143
124	23	166.21	3.54	0	4	-0.535714286
125	0	171.34	4.14	0	4	-0.56547619
125	1	183.73	3.5	0	5	-0.3125
125	2	189.64	2.24	0	5	-0.302579365
125	3	196.48	1.59	0	5	0.213293651
125	4	220.81	1.83	0	5	0.183531746
125	5	212.8	2.51	0	5	-0.114087302
125	6	204.73	3.38	0	4	-0.68452381
125	7	177.81	6.12	0	4	-1.245039683
125	8	162.98	5.99	0	3	-1.512896825
125	9	163.81	6.92	0	3	-1.636904762

125	10	156.38	7.19	0	1	-1.91468254
125	11	160.62	8.11	0	1	-2.073412698
125	12	159.03	9.26	0	1	-2.088293651
125	13	157.02	9.64	0	2	-1.860119048
125	14	156.99	9.52	0	2	-1.825396825
125	15	156.57	8.13	0	4	-1.478174603
125	16	162.7	8.18	0	4	-1.200396825
125	17	161.58	6.99	0	4	-1.066468254
125	18	160.67	6.43	0	4	-0.848214286
125	19	161.08	6.12	0	4	-0.739087302
125	20	158.45	4.2	0	4	-0.625
125	21	161.08	2.85	0	4	-0.570436508
125	22	179.45	3.29	0	5	-0.257936508
125	23	178.9	2.63	0	5	0.153769841
126	0	178.71	1.26	0	5	0.322420635
126	1	189.03	1.45	0	5	0.843253968
126	2	199.88	1.26	0	5	0.37202381
126	3	174.02	1.28	0	5	0.699404762
126	4	179.89	1.13	0	5	0.788690476
126	5	119.59	1.56	0	5	0.783730159
126	6	6.04	1.27	0	5	0.064484127
126	7	207.2	2.43	0	4	-0.952380952
126	8	198.1	4.75	0	4	-0.818452381
126	9	181.19	5.43	0	4	-0.699404762
126	10	208.77	4.51	0	4	-1.056547619
126	11	244.05	4.89	0	4	-1.493055556
126	12	284.6	6.7	0	4	-1.473214286
126	13	306.11	7.29	0	4	-1.245039683
126	14	299.81	7.73	0	4	-1.185515873
126	15	288.78	7.93	0	4	-1.339285714
126	16	286.93	6.73	0	4	-1.245039683
126	17	289.21	5.71	0	4	-0.942460317
126	18	302.51	5.72	0	4	-0.590277778
126	19	351.94	6.48	0.06	5	0.466269841
126	20	182.02	2.16	0	6	1.929563492
126	21	39.13	1.55	0	6	2.916666667
126	22	185.76	1.64	0	6	3.328373016
126	23	94.91	1.8	0	7	4.206349206
127	0	188.14	1.44	0	6	3.928571429
127	1	261.71	1.09	0	6	2.822420635
127	2	322.88	1.28	0	6	2.673611111
127	3	18.78	1.37	0	7	4.578373016
127	4	48.34	1.76	0	7	5.615079365
127	5	75.73	1.71	0	6	3.71031746
127	6	318.04	2.07	0	6	2.053571429
127	7	151.16	1.97	0	5	-0.173611111
127	8	348.42	1.91	0	4	-1.086309524
127	9	237.78	2.85	0	4	-1.21031746
127	10	270.27	2.84	0	4	-1.453373016

127	11	312.09	4.2	0	3	-1.552579365
127	12	213.16	4.77	0	4	-1.344246032
127	13	191.91	5.4	0	4	-1.160714286
127	14	147.41	4.3	0	4	-1.339285714
127	15	254.47	4.46	0	4	-1.026785714
127	16	285.24	5.11	0	4	-1.254960317
127	17	279.48	5.59	0	4	-0.838293651
127	18	267.04	3.45	0	5	-0.456349206
127	19	230.99	2.56	0	5	1.121031746
127	20	238.76	2.14	0	6	2.936507937
127	21	168.72	2.2	0	6	3.859126984
127	22	156.4	1.84	0	7	4.489087302
127	23	129.16	1.58	0	7	4.593253968
128	0	123.53	1.46	0	7	4.270833333
128	1	171.14	1.48	0	6	2.341269841
128	2	213.03	1.87	0	5	1.294642857
128	3	236.4	1.75	0	5	1.220238095
128	4	229.78	1.07	0	5	1.21031746
128	5	223.79	1.02	0	5	1.393849206
128	6	214.52	1.03	0	5	1.056547619
128	7	207.54	2.07	0	5	0.461309524
128	8	204.46	3.07	0	5	1.25
128	9	170.65	3.67	0	5	0.863095238
128	10	251.37	5.04	0	4	-1.175595238
128	11	269.7	5.64	0	3	-1.686507937
128	12	232.35	5.32	0	3	-1.617063492
128	13	209.24	6.56	0	3	-1.50297619
128	14	231.44	6.43	0	4	-1.264880952
128	15	245.28	7.3	0	4	-0.982142857
128	16	271.89	7.26	0	4	-0.912698413
128	17	296.99	5.6	0	4	-0.669642857
128	18	226.05	4.93	0.03	6	2.79265873
128	19	162.18	1.98	0	6	3.035714286
128	20	268.49	9.48	0	5	0.729166667
128	21	107.67	4.81	0.01	5	0.729166667
128	22	182.62	2.77	0	5	0.952380952
128	23	158.34	1.6	0	6	1.661706349
129	0	334.2	1.73	0	5	0.317460317
129	1	15.78	2.68	0	5	0.476190476
129	2	36.31	3.99	0	5	1.091269841
129	3	21.41	2.71	0	5	0.808531746
129	4	213.1	1.43	0	5	1.245039683
129	5	161.99	1.52	0	6	1.681547619
129	6	156.4	1.61	0	5	1.215277778
129	7	344.97	1.74	0	5	0.178571429
129	8	267.69	2.58	0	5	-0.074404762
129	9	199.13	3.53	0	5	-0.084325397
129	10	209.04	3.91	0	4	-0.510912698
129	11	192.56	4.63	0	4	-1.041666667

129	12	172.42	5.1	0	4	-1.195436508
129	13	160.77	4.03	0	4	-1.150793651
129	14	266.85	3.97	0.17	5	0.887896825
129	15	163.72	3.42	0	5	-0.208333333
129	16	196.91	4.68	0	5	-0.064484127
129	17	235.34	3.15	0	5	0.193452381
129	18	194.99	2.06	0	5	1.061507937
129	19	142.08	1.37	0	5	1.274801587
129	20	76.8	1.98	0	6	1.681547619
129	21	35.37	2.15	0	6	2.514880952
129	22	339.34	1.71	0	6	3.10515873
129	23	21.54	1.37	0	6	3.199404762
130	0	54.25	1.49	0	6	3.650793651
130	1	230.59	1.5	0	6	3.71031746
130	2	300.94	1.25	0	6	3.06547619
130	3	6.72	1.41	0	6	2.886904762
130	4	0.28	1.38	0	6	2.77281746
130	5	357.09	1.32	0	6	2.628968254
130	6	264.21	1.75	0	6	1.865079365
130	7	184.67	3.8	0	5	-0.158730159
130	8	181.47	3.69	0	4	-0.739087302
130	9	253.18	6.11	0	4	-0.863095238
130	10	242.01	5.39	0	4	-1.498015873
130	11	214.78	6.69	0	2	-1.750992063
130	12	208.52	8.22	0	3	-1.547619048
130	13	207.98	8.29	0	3	-1.58234127
130	14	207.68	7.85	0	4	-1.463293651
130	15	204.05	6.52	0	4	-1.364087302
130	16	200.31	7.05	0	4	-1.116071429
130	17	193.52	8.21	0	4	-0.838293651
130	18	187.19	7.52	0	4	-0.500992063
130	19	174.93	3.48	0	5	0.124007937
130	20	198.03	2.21	0	5	0.758928571
130	21	340.57	9.18	0	5	-0.396825397
130	22	61.51	3.95	0	5	0.069444444
130	23	223.78	2.32	0	5	0.828373016
131	0	160.22	1.97	0	6	1.755952381
131	1	135.06	2.75	0	5	0.64484127
131	2	192.24	1.99	0	5	0.401785714
131	3	27.01	2.82	0	5	1.274801587
131	4	65.94	3.33	0	5	-0.029761905
131	5	127.13	4.5	0	4	-1.021825397
131	6	128.79	5.08	0	4	-1.21031746
131	7	151.28	5.25	0	4	-1.215277778
131	8	130.23	5.33	0	4	-1.225198413
131	9	104.99	3.82	0	4	-1.274801587
131	10	132.18	4.74	0	4	-1.23015873
131	11	119.98	4.24	0	4	-1.200396825
131	12	115.37	3.86	0	4	-1.180555556

131	13	133.56	4.27	0	4	-1.200396825
131	14	111.84	5.72	0	4	-1.205357143
131	15	138.34	5.06	0	4	-1.145833333
131	16	107.47	3.83	0	4	-1.036706349
131	17	123.72	3.46	0	4	-0.992063492
131	18	71.92	4.46	0.04	4	-0.590277778
131	19	351.52	3.39	0.06	4	-0.907738095
131	20	192.47	2.1	0.12	4	-0.739087302
131	21	297.99	3.6	0.01	4	-0.853174603
131	22	105.17	1.47	0	4	-0.734126984
131	23	148.07	2.21	0	4	-0.66468254
132	0	230.48	1.56	0	4	-0.714285714
132	1	214.67	1.76	0	5	-0.401785714
132	2	197.72	2.48	0	5	-0.143849206
132	3	327.45	4.08	0	4	-0.719246032
132	4	328.54	4.85	0	4	-0.813492063
132	5	304.71	6.92	0	4	-0.858134921
132	6	295.74	6.72	0	4	-0.858134921
132	7	282.34	5.28	0	4	-1.319444444
132	8	289.78	6.29	0	4	-1.130952381
132	9	297.72	7.36	0	4	-1.408730159
132	10	319.36	7.36	0	4	-1.403769841
132	11	330.01	7.51	0	2	-1.741071429
132	12	327.27	6.4	0	2	-1.850198413
132	13	337.63	6.64	0	2	-1.765873016
132	14	340.22	6.52	0	3	-1.691468254
132	15	301.35	5.38	0	2	-1.820436508
132	16	292.73	5.49	0	3	-1.607142857
132	17	302.83	5.62	0	4	-1.299603175
132	18	311.63	4.02	0	4	-0.813492063
132	19	320.54	3.58	0	4	-0.575396825
132	20	299.4	4	0	5	-0.486111111
132	21	342.39	3.78	0	5	-0.27281746
132	22	327.19	2.54	0	6	1.741071429
132	23	355.26	2.72	0	6	2.420634921
133	0	14.5	2.44	0	6	1.800595238
133	1	17.09	4.89	0	5	1.180555556
133	2	28.45	5.35	0	5	0.674603175
133	3	18.33	3.99	0	5	0.476190476
133	4	29.1	5.22	0	5	0.228174603
133	5	27.58	4.58	0	5	-0.069444444
133	6	26.48	2.51	0	4	-0.570436508
133	7	24.48	3.94	0.05	4	-0.590277778
133	8	15.57	4.36	0.01	4	-0.788690476
133	9	43.65	2.5	0	4	-0.992063492
133	10	185.94	2.13	0	4	-1.071428571
133	11	83.03	2.69	0.02	4	-1.051587302
133	12	92.86	3.3	0	4	-1.274801587
133	13	165.34	3.74	0	3	-1.512896825

133	14	7.97	3.85	0	4	-1.076388889
133	15	233.21	2.64	0	4	-1.056547619
133	16	80.1	3.42	0	4	-1.011904762
133	17	95.99	2.42	0.04	5	-0.074404762
133	18	161.33	2.27	0	5	-0.317460317
133	19	17.92	4.47	0	5	-0.262896825
133	20	19.12	3.83	0	5	-0.3125
133	21	17.68	4.1	0	5	0.064484127
133	22	1.56	2.03	0	5	-0.248015873
133	23	5.81	2.67	0	5	0.01984127
134	0	35.83	3.21	0	5	0.466269841
134	1	38.21	2.46	0	5	0.337301587
134	2	27.18	1.61	0	5	-0.342261905
134	3	288.31	1.77	0	5	-0.496031746
134	4	43.5	2.65	0	4	-0.545634921
134	5	22.99	5.81	0	4	-0.828373016
134	6	1.29	3.14	0	4	-0.932539683
134	7	212.79	2.35	0	4	-1.036706349
134	8	190.05	3.04	0	4	-1.121031746
134	9	183.66	4.36	0	4	-1.101190476
134	10	197.03	4.07	0	4	-1.150793651
134	11	194.89	4.7	0	4	-1.19047619
134	12	187.78	7.4	0	4	-1.423611111
134	13	181.44	5.21	0	4	-1.393849206
134	14	157.02	4.37	0	4	-1.478174603
134	15	178.29	5.8	0	4	-1.364087302
134	16	170.2	5.07	0	4	-1.418650794
134	17	174.25	6.96	0	4	-0.987103175
134	18	177.19	6.23	0	4	-0.669642857
134	19	186.15	5.12	0	5	-0.461309524
134	20	134.15	4.85	0.53	5	-0.411706349
134	21	59.18	3.43	0.19	5	-0.094246032
134	22	34.44	3.61	0.11	5	0.25297619
134	23	76.23	3.03	0	5	0.267857143
135	0	7.41	3.46	0	5	0.064484127
135	1	29.82	3.02	0	5	0.654761905
135	2	1.14	4.99	0	5	0.168650794
135	3	353.31	5.11	0	5	-0.451388889
135	4	293.23	3.22	0	4	-0.56547619
135	5	21.15	4.01	0	4	-0.515873016
135	6	314.48	5.03	0	4	-1.086309524
135	7	344.43	4.59	0	4	-1.349206349
135	8	289.81	4.84	0	2	-1.726190476
135	9	293.63	5.15	0	2	-1.800595238
135	10	311.37	4.83	0	1	-1.909722222
135	11	263.47	4.8	0	2	-1.840277778
135	12	273.2	5.72	0	2	-1.879960317
135	13	277.49	5.63	0	1	-1.91468254
135	14	295.37	5.67	0	2	-1.840277778

135	15	286.82	6.69	0	2	-1.721230159
135	16	305.42	5.29	0	3	-1.552579365
135	17	329.23	5.28	0	4	-1.259920635
135	18	351.56	5.31	0	4	-0.838293651
135	19	355.9	4.02	0	5	-0.416666667
135	20	5.37	3.89	0	5	-0.009920635
135	21	27.11	4.58	0	5	0.158730159
135	22	13.9	8.41	0	4	-0.932539683
135	23	351.11	6.14	0	4	-0.982142857
136	0	344.47	5.56	0	4	-0.962301587
136	1	8.57	5.4	0	4	-0.907738095
136	2	2.44	5.24	0	4	-0.853174603
136	3	329.51	2.68	0	4	-0.575396825
136	4	163.75	2.33	0	5	0.124007937
136	5	286.78	1.86	0	5	0.362103175
136	6	38.34	1.91	0	4	-0.595238095
136	7	262.67	2.78	0	3	-1.512896825
136	8	317.57	4.08	0	3	-1.696428571
136	9	284.52	4.44	0	2	-1.750992063
136	10	312.66	4.79	0	2	-1.731150794
136	11	313.06	4.71	0	2	-1.830357143
136	12	266.92	5.37	0	3	-1.656746032
136	13	286.59	5.5	0	1	-1.929563492
136	14	308.11	5.47	0	3	-1.656746032
136	15	290.39	5.35	0	4	-1.458333333
136	16	318.27	5.44	0	4	-1.418650794
136	17	290.76	4.52	0	4	-1.364087302
136	18	272.98	2.57	0	4	-0.694444444
136	19	270.62	1.62	0	5	0.882936508
136	20	343.5	1.51	0	6	1.736111111
136	21	25.43	5.6	0	6	1.825396825
136	22	39.09	4.94	0	5	1.453373016
136	23	111.64	1.93	0	5	1.165674603
137	0	13.47	3.31	0	6	2.137896825
137	1	26.15	2.47	0	6	2.286706349
137	2	26.57	2.7	0	5	1.304563492
137	3	30	2.99	0	6	1.646825397
137	4	25.83	3.06	0	6	1.731150794
137	5	24.38	2.92	0	6	1.592261905
137	6	9.77	2.59	0	5	0.491071429
137	7	349.27	2.24	0	4	-0.818452381
137	8	148.5	2.56	0	4	-1.185515873
137	9	315.83	4.1	0	4	-1.344246032
137	10	271.33	4.24	0	2	-1.736111111
137	11	238.42	4.65	0	2	-1.775793651
137	12	249.87	4.49	0	2	-1.721230159
137	13	265.98	4.95	0	1	-1.924603175
137	14	212.56	3.76	0	3	-1.607142857
137	15	257.45	5.25	0	2	-1.746031746

137	16	245.8	3.91	0	3	-1.557539683
137	17	193.02	4.56	0	4	-1.165674603
137	18	157.7	5.56	0	4	-0.689484127
137	19	168.84	4.11	0	5	-0.386904762
137	20	174.23	3.5	0	5	-0.183531746
137	21	182.87	2.47	0	5	-0.094246032
137	22	183.84	1.41	0	5	0.35218254
137	23	231.17	1.61	0	5	0.342261905
138	0	331.22	1.91	0	5	0.317460317
138	1	34.44	4.92	0	5	0.243055556
138	2	101.2	2.01	0	5	0.327380952
138	3	90.87	2.44	0	5	0.27281746
138	4	26.85	4.87	0	5	1.200396825
138	5	32.79	5.25	0	6	1.691468254
138	6	30.37	5.99	0	5	1.473214286
138	7	31.68	5.06	0	4	-0.625
138	8	340.65	3.21	0	4	-1.086309524
138	9	204.23	4.28	0	4	-1.259920635
138	10	174.14	5.45	0	4	-1.473214286
138	11	167.03	6.49	0	2	-1.750992063
138	12	165.45	6.19	0	2	-1.755952381
138	13	165.1	6.65	0	3	-1.607142857
138	14	163.78	6.45	0	3	-1.537698413
138	15	168.97	7.24	0	4	-1.408730159
138	16	165.67	6.85	0	4	-1.369047619
138	17	166.5	6.72	0	4	-1.254960317
138	18	167.99	6.42	0	4	-0.902777778
138	19	166.91	5.77	0	4	-0.724206349
138	20	166.83	3.36	0	4	-0.679563492
138	21	154.98	2.61	0	4	-0.60515873
138	22	151.91	1.59	0	5	-0.327380952
138	23	103.31	1.69	0	5	-0.05952381
139	0	105.39	1.42	0	5	-0.302579365
139	1	121.99	1.48	0	4	-0.555555556
139	2	169.34	1.92	0	4	-0.639880952
139	3	191.32	3.84	0	4	-0.828373016
139	4	182.21	3.57	0	4	-0.868055556
139	5	177.69	6.6	0	4	-0.962301587
139	6	177.47	6	0	4	-1.026785714
139	7	176.6	5.13	0.01	4	-0.9375
139	8	170.28	4.05	0.01	4	-0.734126984
139	9	175.61	6.86	0	4	-0.773809524
139	10	177.79	8.29	0	4	-0.739087302
139	11	177.34	7.43	0	4	-0.753968254
139	12	182.04	5.46	0	4	-0.739087302
139	13	185.28	9.28	0	4	-1.299603175
139	14	185.16	14.4	0	4	-1.245039683
139	15	187.36	13.97	0	4	-0.9375
139	16	191.47	14.51	0	4	-0.848214286

139	17	294.96	9.29	0.24	4	-0.555555556
139	18	175.35	2.7	0	5	-0.153769841
139	19	189.01	2.25	0	5	-0.481150794
139	20	173.64	3.45	0	5	-0.396825397
139	21	251.55	1.51	0	4	-0.639880952
139	22	166.62	1.72	0	5	-0.386904762
139	23	208.98	2.47	0	5	-0.322420635
140	0	173.78	3.07	0	5	-0.27281746
140	1	95.41	1.65	0	5	-0.243055556
140	2	13	3.99	0	5	-0.451388889
140	3	12.39	7.79	0.01	4	-0.902777778
140	4	12.4	7	0.08	4	-0.858134921
140	5	15.69	5.99	0	4	-0.97718254
140	6	16.22	6.81	0	4	-1.096230159
140	7	11.21	7.55	0.03	4	-1.071428571
140	8	13.76	6.68	0.11	4	-0.99702381
140	9	20.37	5.45	0.04	4	-0.853174603
140	10	29.79	7.91	0.02	4	-0.972222222
140	11	27.12	6.62	0	4	-1.011904762
140	12	31.43	6.2	0	4	-1.041666667
140	13	35.25	8.19	0	4	-1.096230159
140	14	25.09	7.74	0	4	-1.046626984
140	15	32.15	8.74	0	4	-1.076388889
140	16	30.13	8.47	0	4	-1.106150794
140	17	25.16	7.66	0	4	-1.096230159
140	18	30.61	5.53	0	4	-1.056547619
140	19	32.93	4.98	0	4	-1.031746032
140	20	36.68	5.17	0	4	-1.001984127
140	21	33.77	4.35	0	4	-1.006944444
140	22	41.33	3.96	0	4	-1.016865079
140	23	41.5	4.79	0	4	-1.021825397
141	0	40.64	4.49	0	4	-1.006944444
141	1	40.13	4.36	0	4	-1.006944444
141	2	33.8	5.6	0	4	-1.041666667
141	3	36.41	4.44	0	4	-1.061507937
141	4	33.72	4.05	0	4	-1.056547619
141	5	41.59	3.32	0	4	-1.056547619
141	6	51.27	3.87	0	4	-1.106150794
141	7	41	2.5	0	4	-1.116071429
141	8	59.91	2.46	0	4	-1.111111111
141	9	41.36	3.48	0.01	4	-1.081349206
141	10	27.24	1.95	0.01	4	-0.972222222
141	11	12.67	1.36	0.06	4	-0.932539683
141	12	39.41	3.31	0.11	4	-0.982142857
141	13	164.38	3.26	0.01	4	-1.066468254
141	14	97.23	1.61	0	4	-1.021825397
141	15	73.81	1.82	0	4	-1.051587302
141	16	75.57	2.5	0	4	-1.121031746
141	17	62.34	2.68	0	4	-1.036706349

141	18	51.37	2.67	0	4	-0.952380952
141	19	51.55	2.48	0	4	-0.714285714
141	20	53.62	2.29	0	4	-0.595238095
141	21	80.35	1.55	0	4	-0.659722222
141	22	107.12	1.28	0	4	-0.719246032
141	23	159.44	1.24	0	4	-0.634920635
142	0	94.19	1.54	0	4	-0.610119048
142	1	125.18	1.52	0	4	-0.729166667
142	2	125.94	1.32	0	4	-0.674603175
142	3	108.26	1.84	0	4	-0.654761905
142	4	119.35	1.72	0	4	-0.679563492
142	5	89.11	2.1	0	4	-0.66468254
142	6	88.41	2.08	0	4	-0.654761905
142	7	98.58	1.9	0	4	-0.882936508
142	8	134.73	2.18	0	4	-1.011904762
142	9	150.88	2.33	0	4	-1.096230159
142	10	178.02	3.02	0	4	-1.135912698
142	11	182.45	4.05	0	4	-1.145833333
142	12	194.11	4.32	0	4	-1.220238095
142	13	180.66	3.89	0	4	-1.180555556
142	14	172.96	3.1	0	4	-1.19047619
142	15	164.31	2.9	0	4	-1.130952381
142	16	169	3.16	0	4	-0.967261905
142	17	159.37	3.18	0	4	-0.868055556
142	18	161.37	1.95	0	4	-0.724206349
142	19	122.97	1.41	0	4	-0.739087302
142	20	111.84	1.77	0	4	-0.749007937
142	21	122.64	1.9	0	4	-0.808531746
142	22	168.39	2.46	0	4	-0.694444444
142	23	183.94	4.36	0	4	-0.744047619
143	0	187.51	4.19	0	4	-0.788690476
143	1	145.66	1.6	0	4	-0.734126984
143	2	140.74	2.75	0	4	-0.709325397
143	3	176.38	2.32	0	4	-0.749007937
143	4	191.81	3.62	0	4	-0.778769841
143	5	204.46	2.91	0	4	-0.89781746
143	6	126.06	2.33	0	4	-1.076388889
143	7	145.73	2.46	0	4	-1.071428571
143	8	139.87	3.08	0	4	-1.21031746
143	9	144.41	3.23	0	4	-1.195436508
143	10	163.59	3.92	0	4	-1.245039683
143	11	129.85	2.65	0	4	-1.19047619
143	12	123.43	3.06	0	4	-1.185515873
143	13	152.34	3	0	4	-1.071428571
143	14	139	3.28	0	4	-1.185515873
143	15	95.61	2.56	0	4	-1.106150794
143	16	90.94	2.55	0	4	-1.056547619
143	17	99.84	1.77	0	4	-1.006944444
143	18	137.74	1.87	0	4	-0.902777778

143	19	170.85	1.33	0	4	-0.68452381
143	20	174.97	1.47	0	4	-0.575396825
143	21	131.51	1.54	0	4	-0.570436508
143	22	171.14	1.57	0	4	-0.60515873
143	23	147.09	1.52	0	4	-0.540674603
144	0	178.98	1.47	0	4	-0.679563492
144	1	161.32	1.27	0	4	-0.610119048
144	2	162.7	1.64	0	4	-0.550595238
144	3	168.62	1.92	0	5	-0.496031746
144	4	174.29	2.07	0	4	-0.550595238
144	5	172.78	1.79	0	4	-0.689484127
144	6	187.5	1.91	0	4	-0.843253968
144	7	175.94	3.96	0	4	-1.031746032
144	8	185.41	4.32	0	4	-1.071428571
144	9	184.46	5.22	0	4	-1.145833333
144	10	169.01	3.87	0	4	-1.304563492
144	11	158.71	3.58	0	4	-1.408730159
144	12	167.3	3.46	0	4	-1.294642857
144	13	171.73	5.17	0	4	-1.061507937
144	14	172.56	4.86	0	4	-1.041666667
144	15	169.44	5.91	0	4	-1.106150794
144	16	168.64	4.42	0	4	-1.036706349
144	17	166.89	3.61	0	4	-0.902777778
144	18	163.83	4.67	0	4	-0.833333333
144	19	170.34	5.86	0	4	-0.778769841
144	20	172.5	6.95	0	4	-0.783730159
144	21	168.26	4.89	0	4	-0.813492063
144	22	157.59	3.72	0	4	-0.808531746
144	23	163.33	4.29	0.05	4	-0.734126984
145	0	161.89	4.86	0	4	-0.68452381
145	1	170.93	4.26	0.28	4	-0.689484127
145	2	153.65	2.1	0.19	4	-0.530753968
145	3	152.43	2.36	0.11	4	-0.510912698
145	4	186.16	2.15	0	5	-0.461309524
145	5	182.75	1.04	0	4	-0.540674603
145	6	184.54	2.61	0	4	-0.773809524
145	7	182.16	4.17	0	4	-1.051587302
145	8	173.53	3.26	0	4	-1.081349206
145	9	186.43	2.91	0	4	-1.155753968
145	10	243.88	3.42	0	4	-1.428571429
145	11	202.67	4.32	0	4	-1.339285714
145	12	188.18	4.59	0	4	-1.170634921
145	13	230.86	4.7	0	4	-1.483134921
145	14	251.53	5.34	0	4	-1.319444444
145	15	257.11	5.24	0	4	-1.140873016
145	16	266.53	6.04	0	4	-0.853174603
145	17	286.52	3.84	0	4	-1.046626984
145	18	227	2.67	0	4	-0.788690476
145	19	180.48	2.35	0	5	-0.25297619

145	20	178.12	3.12	0	5	-0.034722222
145	21	164.4	3.42	0	4	-0.520833333
145	22	266.85	1.58	0	5	0.223214286
145	23	282.53	2	0	5	0.520833333
146	0	86.47	3.09	0	5	0.297619048
146	1	230.48	2.65	0	5	-0.158730159
146	2	42.02	2.04	0	5	0.178571429
146	3	23.9	1.77	0	5	0.004960317
146	4	53.53	2.12	0	5	0.505952381
146	5	138.49	2.18	0	5	0.441468254
146	6	200.48	4.99	0	4	-0.853174603
146	7	179.23	4.44	0	4	-1.145833333
146	8	291.88	5.55	0	4	-0.972222222
146	9	327.97	5.6	0	4	-1.468253968
146	10	334.23	6.95	0	3	-1.661706349
146	11	295.52	7.69	0	3	-1.646825397
146	12	306.11	6.61	0	2	-1.721230159
146	13	305.63	7.28	0	2	-1.775793651
146	14	317.04	6.75	0	3	-1.537698413
146	15	308.17	5.56	0	3	-1.676587302
146	16	290	5.56	0	3	-1.527777778
146	17	298.56	5.55	0	4	-1.274801587
146	18	357.78	3.45	0	4	-0.892857143
146	19	359.84	3.07	0	5	-0.426587302
146	20	7.87	2.64	0	5	0.183531746
146	21	345.42	3	0	5	0.25297619
146	22	347.98	2.59	0	5	-0.327380952
146	23	252.44	3.34	0	5	-0.381944444
147	0	261.62	3.38	0	4	-0.540674603
147	1	312.29	4.66	0	4	-0.912698413
147	2	350.16	4.3	0	4	-0.9375
147	3	356.28	4.89	0	4	-0.972222222
147	4	345.58	3.99	0	4	-0.967261905
147	5	353.34	6.04	0	4	-1.006944444
147	6	349.26	6.44	0	4	-1.225198413
147	7	348.16	7.95	0	4	-1.354166667
147	8	339.46	6.86	0	3	-1.527777778
147	9	342.96	6.64	0	3	-1.676587302
147	10	322.88	5.21	0	1	-1.964285714
147	11	306.58	5.4	0	1	-2.063492063
147	12	321.08	5.52	0	2	-1.820436508
147	13	301.05	5.65	0	1	-1.979166667
147	14	309.42	5.28	0	1	-2.013888889
147	15	327.93	5.34	0	3	-1.617063492
147	16	352.22	6.34	0	4	-1.369047619
147	17	350.24	5.78	0	4	-1.349206349
147	18	353.47	6.04	0	4	-1.061507937
147	19	0.41	6.25	0	4	-0.828373016
147	20	0.2	6.15	0	4	-0.788690476

147	21	357.91	5.33	0	4	-0.679563492
147	22	306.72	2.74	0	4	-0.545634921
147	23	326	4.62	0	4	-0.709325397
148	0	349.46	6.44	0	4	-0.699404762
148	1	333.22	5.65	0	4	-0.719246032
148	2	354.66	6.88	0	4	-0.788690476
148	3	357.49	7.5	0	4	-0.778769841
148	4	49.8	4.61	0	5	-0.158730159
148	5	114.19	2.05	0	5	0.074404762
148	6	16.31	2.39	0	4	-0.992063492
148	7	39.46	2.74	0	4	-1.170634921
148	8	322.33	2.84	0	4	-1.354166667
148	9	293.85	3.48	0	4	-1.354166667
148	10	227.4	5.28	0	2	-1.731150794
148	11	241.34	4.2	0	2	-1.83531746
148	12	261.07	4.08	0	3	-1.696428571
148	13	232.21	4.91	0	3	-1.5625
148	14	217.83	5.12	0	3	-1.646825397
148	15	213	5.63	0	4	-1.453373016
148	16	204.69	6.12	0	4	-1.428571429
148	17	213.69	5.06	0	4	-1.279761905
148	18	231.66	3.79	0	4	-0.818452381
148	19	178.48	2.68	0	4	-0.575396825
148	20	16.4	2.77	0	5	-0.481150794
148	21	28.26	2.84	0	5	0.37202381
148	22	43.28	3.58	0	5	0.133928571
148	23	27.79	4.8	0	5	0.074404762
149	0	13.74	4.36	0	5	-0.104166667
149	1	11.95	5.9	0	4	-0.615079365
149	2	26.35	5.14	0	5	-0.446428571
149	3	26.34	4.54	0	5	-0.03968254
149	4	28.5	5.41	0	5	0.37202381
149	5	25.02	4.82	0	5	-0.069444444
149	6	18.9	5.55	0	4	-1.111111111
149	7	7.58	5.31	0	4	-1.413690476
149	8	355.58	4.25	0	4	-1.418650794
149	9	356.25	5.22	0	3	-1.597222222
149	10	357.21	4.48	0	4	-1.498015873
149	11	344.85	3.93	0	4	-1.478174603
149	12	11.54	4.25	0	4	-1.413690476
149	13	14.23	4.72	0	4	-1.383928571
149	14	348.38	4.41	0	4	-1.319444444
149	15	353.23	4.15	0	4	-1.220238095
149	16	25.84	6.22	0	4	-1.274801587
149	17	37.2	4.65	0	4	-1.125992063
149	18	77.27	2.7	0	4	-0.843253968
149	19	79.17	1.98	0	4	-0.719246032
149	20	71.57	2.32	0	4	-0.64484127
149	21	59.83	2.56	0	4	-0.629960317

149	22	79.51	2.66	0	4	-0.654761905
149	23	153.72	2.57	0	4	-0.972222222
150	0	139.17	1.5	0	4	-0.95734127
150	1	92.23	2.15	0	4	-0.942460317
150	2	29.17	3.56	0	4	-1.031746032
150	3	23.56	2.34	0	4	-1.036706349
150	4	22.67	3.38	0	4	-1.001984127
150	5	38.22	3.87	0	4	-1.056547619
150	6	49.3	4.33	0	4	-1.071428571
150	7	52.63	3.23	0	4	-1.046626984
150	8	32.81	5.27	0	4	-1.21031746
150	9	41.79	5.33	0	4	-1.28968254
150	10	47.65	6.07	0	4	-1.339285714
150	11	23.09	7.28	0	4	-1.393849206
150	12	33.38	6.8	0	4	-1.284722222
150	13	13.98	4.4	0	4	-1.245039683
150	14	35.84	4.83	0	4	-1.284722222
150	15	168.82	6.4	0	4	-1.359126984
150	16	189.45	4.24	0	4	-1.185515873
150	17	189.73	2.85	0	4	-1.205357143
150	18	118.06	2.2	0	4	-0.907738095
150	19	91.6	1.94	0	5	-0.168650794
150	20	156.78	1.69	0	5	0.114087302
150	21	212.33	1.91	0	4	-0.744047619
150	22	6.74	2	0	4	-0.803571429
150	23	37.82	1.78	0	4	-0.803571429
151	0	34.52	1.94	0	4	-0.639880952
151	1	45.82	1.74	0	5	-0.188492063
151	2	31.49	2.53	0	5	0.009920635
151	3	24.84	3.33	0	5	-0.158730159
151	4	40.45	5.65	0	4	-0.967261905
151	5	26.13	5.94	0	4	-1.111111111
151	6	23.42	5.45	0	4	-1.155753968
151	7	14.32	5.14	0	4	-1.180555556
151	8	15.92	4.56	0	4	-1.264880952
151	9	41.74	4.61	0	4	-1.240079365
151	10	31.41	4.67	0	4	-1.383928571
151	11	352.68	4.75	0	3	-1.532738095
151	12	31.42	5.32	0	4	-1.369047619
151	13	267.96	3.39	0	4	-1.30952381
151	14	182.36	7.3	0	3	-1.671626984
151	15	181.54	9.08	0	3	-1.641865079
151	16	185.76	9.59	0	4	-1.498015873
151	17	182.97	8.79	0	4	-1.294642857
151	18	157.2	4.72	0	4	-1.081349206
151	19	155.03	2.45	0	4	-0.634920635
151	20	151.68	1.95	0	5	-0.128968254
151	21	175.55	1.56	0	5	-0.481150794
151	22	70.02	1.93	0	5	-0.391865079

151	23	88.59	1.88	0	5	0.064484127
152	0	123.85	1.51	0	5	0.545634921
152	1	101.79	1.81	0	5	0.198412698
152	2	42.03	3.44	0	5	-0.009920635
152	3	28.21	2.3	0	5	-0.496031746
152	4	50.24	2.9	0	4	-1.011904762
152	5	82.86	2.83	0	4	-1.051587302
152	6	85.74	2.5	0	4	-1.175595238
152	7	126.18	2.59	0	4	-1.324404762
152	8	187.36	3.98	0	4	-1.364087302
152	9	187.14	4.81	0	4	-1.408730159
152	10	171.66	4.77	0	3	-1.666666667
152	11	165.86	5.73	0	1	-1.929563492
152	12	160.59	4.78	0	3	-1.696428571
152	13	172.84	6.02	0	2	-1.721230159
152	14	167.72	5.57	0	2	-1.89484127
152	15	158.83	5.16	0	2	-1.81547619
152	16	160.19	5.07	0	3	-1.592261905
152	17	166.31	4.73	0	4	-1.28968254
152	18	164.6	4.5	0	5	-0.451388889
152	19	169.06	4.46	0	5	-0.486111111
152	20	167.08	2.48	0	5	-0.357142857
152	21	167.22	2.98	0	5	0.024801587
152	22	185.59	3.33	0	5	-0.29265873
152	23	188.37	2.98	0	5	-0.466269841
153	0	189.03	2.79	0	4	-0.68452381
153	1	178.32	2.72	0	4	-0.863095238
153	2	174	2.76	0	4	-0.853174603
153	3	179.49	2.46	0	4	-0.545634921
153	4	185.18	2.72	0	5	-0.421626984
153	5	195.6	2.01	0	5	-0.3125
153	6	183.99	3.02	0	4	-0.87797619
153	7	178.68	3.88	0	4	-1.21031746
153	8	191.25	2.92	0	4	-1.165674603
153	9	222.51	3.73	0	4	-1.036706349
153	10	212.07	4.36	0	4	-0.947420635
153	11	208.66	4.5	0	4	-0.833333333
153	12	188.67	4.53	0	5	-0.496031746
153	13	198.37	3.34	0	4	-0.967261905
153	14	182.58	4.44	0	4	-0.907738095
153	15	180.79	4.48	0	4	-1.200396825
153	16	189.56	3.63	0	4	-1.066468254
153	17	247.07	3.53	0	4	-0.992063492
153	18	224.78	2.76	0	4	-0.709325397
153	19	198.36	2.69	0	5	0.615079365
153	20	151.01	2.25	0	6	1.547619048
153	21	63.03	2.73	0	5	0.99702381
153	22	27.35	3.73	0	6	1.5625
153	23	17.76	4.51	0	6	1.597222222

154	0	98.03	1.72	0	6	3.258928571
154	1	32.6	4.07	0	6	3.561507937
154	2	35.97	3.86	0	6	3.640873016
154	3	107.76	2.26	0	6	3.308531746
154	4	31.26	2.82	0	6	3.844246032
154	5	9.06	2.79	0	6	1.850198413
154	6	15.78	2.29	0	5	1.180555556
154	7	167.01	2.21	0	5	-0.153769841
154	8	174.53	3.35	0	4	-0.719246032
154	9	191.64	4.48	0	4	-1.011904762
154	10	177.89	4.76	0	4	-1.314484127
154	11	175.14	6.88	0	3	-1.592261905
154	12	169.57	5.87	0	4	-1.388888889
154	13	209.66	7.33	0	4	-1.403769841
154	14	196.18	9.86	0	4	-1.433531746
154	15	194.16	10.69	0	4	-1.200396825
154	16	198.79	9.38	0	4	-0.987103175
154	17	205.79	8.41	0	4	-0.863095238
154	18	221.9	6.36	0.03	5	-0.327380952
154	19	157.25	3	0	5	0.143849206
154	20	22.39	2.04	0	5	0.37202381
154	21	180.9	3.5	0	5	0.148809524
154	22	173.9	2.94	0	5	1.274801587
154	23	191	3.57	0	5	0.927579365
155	0	304.12	3.04	0	5	-0.302579365
155	1	343.24	5.69	0	4	-0.763888889
155	2	344.87	6.73	0	4	-0.863095238
155	3	310.16	5.48	0	4	-0.882936508
155	4	309.44	4.44	0	4	-0.902777778
155	5	327.02	5.63	0	4	-0.97718254
155	6	351.85	6	0	4	-1.101190476
155	7	359.79	6.1	0	4	-1.28968254
155	8	352.14	7.71	0	4	-1.493055556
155	9	350.33	6.06	0	3	-1.50297619
155	10	12.48	9.64	0	2	-1.780753968
155	11	13.05	9.58	0	1	-1.939484127
155	12	7.94	9.74	0	1	-1.944444444
155	13	4.76	10.61	0	2	-1.879960317
155	14	357.9	7.79	0	2	-1.805555556
155	15	356.12	6.69	0	3	-1.671626984
155	16	354.73	6.01	0	3	-1.5625
155	17	358.02	4.98	0	4	-1.324404762
155	18	1.6	4.26	0	4	-0.947420635
155	19	359.38	2.63	0	5	0.481150794
155	20	34.03	2.85	0	5	1.160714286
155	21	29.41	2.05	0	6	1.994047619
155	22	17.15	4.36	0	6	2.762896825
155	23	23.79	4.57	0	6	3.576388889
156	0	21.67	3.78	0	7	4.176587302

156	1	27.62	7.99	0	7	4.766865079
156	2	30.26	4	0	6	2.385912698
156	3	48.56	2.82	0	6	1.567460317
156	4	21.26	3.85	0	6	1.825396825
156	5	25.46	5.14	0	6	1.750992063
156	6	26.72	4.99	0	5	0.610119048
156	7	41.07	5.04	0	4	-0.669642857
156	8	47.38	3.37	0	4	-1.175595238
156	9	271.23	3.27	0	4	-1.026785714
156	10	183.87	5.53	0	3	-1.50297619
156	11	168.86	6.17	0	2	-1.889880952
156	12	168.4	5.13	0	3	-1.512896825
156	13	168.93	7.08	0	2	-1.736111111
156	14	166.95	6.32	0	4	-1.225198413
156	15	165.8	5.54	0	4	-1.021825397
156	16	166.79	6.65	0	4	-1.374007937
156	17	167.49	6.41	0	4	-1.160714286
156	18	170.48	5.74	0	4	-0.620039683
156	19	177.22	7.39	0	4	-0.659722222
156	20	180.76	6.02	0	4	-0.823412698
156	21	204.22	1.82	0	4	-0.580357143
156	22	190.06	2.69	0	4	-0.525793651
156	23	38.58	3.57	0	5	-0.27281746
157	0	19.41	5.8	0	5	-0.128968254
157	1	11.41	4.94	0	5	-0.456349206
157	2	69.77	2.71	0	5	-0.282738095
157	3	38.28	4.28	0	5	-0.223214286
157	4	27.44	4.23	0	5	-0.307539683
157	5	25.74	5.55	0	5	-0.173611111
157	6	31.47	5.56	0	5	-0.376984127
157	7	33.41	4.84	0	4	-0.629960317
157	8	25.7	4.9	0	4	-0.947420635
157	9	22.81	3.43	0	4	-1.121031746
157	10	20.62	4.39	0	4	-1.135912698
157	11	30.29	5.05	0	4	-1.215277778
157	12	57.55	4.91	0	4	-1.220238095
157	13	72.03	3.76	0	4	-1.215277778
157	14	74.22	4.36	0	4	-1.016865079
157	15	76.96	3.9	0	4	-0.768849206
157	16	73.95	3.07	0	4	-0.803571429
157	17	54.02	3.84	0	4	-0.724206349
157	18	47.77	3.81	0	4	-0.610119048
157	19	43.43	3.74	0	4	-0.679563492
157	20	51.89	3.11	0	4	-0.714285714
157	21	18.51	3.02	0	4	-0.714285714
157	22	27.62	3.73	0	4	-0.744047619
157	23	17.73	3.93	0	4	-0.868055556
158	0	48.23	3.62	0	4	-0.773809524
158	1	41.67	3.9	0	4	-0.902777778

158	2	20.77	5.3	0	4	-1.026785714
158	3	26.16	5.8	0	4	-1.026785714
158	4	30.25	6.72	0	4	-1.036706349
158	5	33.04	5.99	0	4	-0.967261905
158	6	18.28	6.61	0	4	-1.031746032
158	7	17.86	7.18	0.13	4	-1.016865079
158	8	17.91	8.76	0.13	4	-1.30952381
158	9	16.55	9.19	0.31	4	-1.378968254
158	10	16.47	10.91	0.26	4	-1.428571429
158	11	13.4	12.33	0.15	4	-1.378968254
158	12	12.92	12.61	0.13	4	-1.408730159
158	13	16.79	11.69	0.12	4	-1.294642857
158	14	10.25	10.02	0.01	4	-1.066468254
158	15	14.17	11.3	0	4	-1.046626984
158	16	14.5	12.32	0	4	-1.066468254
158	17	12.22	12.3	0	4	-1.433531746
158	18	358.38	10.66	0.04	4	-1.483134921
158	19	17.1	14.52	0.13	4	-1.374007937
158	20	10.2	11.64	0.05	4	-1.433531746
158	21	9.44	12.7	0.06	3	-1.681547619
158	22	7.11	12.6	0.1	3	-1.681547619
158	23	9.2	11.53	0.1	3	-1.60218254
159	0	10.65	10.14	0.04	4	-1.125992063
159	1	9.32	8.96	0.06	4	-0.962301587
159	2	4.71	7.37	0	4	-0.927579365
159	3	8.75	7.8	0	4	-1.165674603
159	4	357.23	4.5	0	4	-0.882936508
159	5	0.4	3.11	0	4	-0.66468254
159	6	5.42	5.34	0	4	-0.828373016
159	7	0.7	7.48	0	4	-1.25
159	8	5.09	7.2	0	4	-1.448412698
159	9	2.37	6.94	0	3	-1.572420635
159	10	5.21	7.83	0	3	-1.686507937
159	11	2.25	5.82	0	3	-1.661706349
159	12	347.93	4.32	0	4	-1.463293651
159	13	349.11	3.12	0	4	-1.284722222
159	14	0.95	5.68	0	4	-1.393849206
159	15	340.82	4	0	4	-1.195436508
159	16	350.94	4.93	0	4	-1.130952381
159	17	340.61	5.14	0	4	-1.150793651
159	18	355.92	4.39	0	4	-0.89781746
159	19	355.5	4	0	4	-0.56547619
159	20	340.88	2.16	0	5	1.031746032
159	21	20.88	2.1	0	6	1.760912698
159	22	2.75	2.28	0	6	2.748015873
159	23	25.17	2.83	0	6	3.487103175
160	0	11.45	2.53	0	6	2.896825397
160	1	26.64	2.15	0	6	2.609126984
160	2	14.32	2.2	0	6	2.137896825

160	3	33.83	1.63	0	6	2.306547619
160	4	15.17	2.16	0	6	2.103174603
160	5	15.85	2.85	0	6	2.038690476
160	6	51.3	1.52	0	5	0.153769841
160	7	180.97	2.31	0	4	-0.793650794
160	8	183.09	3.33	0	4	-1.116071429
160	9	207.93	4.04	0	4	-0.907738095
160	10	190.55	4.7	0	4	-1.279761905
160	11	164.64	5.05	0	3	-1.527777778
160	12	166.06	5.43	0	4	-1.433531746
160	13	176.69	6.09	0	4	-1.101190476
160	14	190.72	8.18	0	4	-1.081349206
160	15	194.06	9.25	0	4	-1.254960317
160	16	196.99	9.22	0	4	-1.220238095
160	17	194.03	7.27	0	4	-0.9375
160	18	189.3	6.18	0	4	-0.535714286
160	19	189.53	4.31	0	5	0.044642857
160	20	180.96	3.97	0	5	0.104166667
160	21	172.77	3.04	0	5	0.491071429
160	22	177.69	4.7	0	5	-0.004960317
160	23	188.18	5.45	0	5	-0.193452381
161	0	171.76	4.1	0	5	0.620039683
161	1	169.07	3.66	0	5	0.749007937
161	2	182.81	3.8	0	5	0.35218254
161	3	185.32	1.58	0	5	0.550595238
161	4	231.94	1.96	0	5	0.863095238
161	5	189.83	2.18	0	5	0.907738095
161	6	196.85	2.72	0	5	-0.35218254
161	7	177.78	3.02	0	4	-1.106150794
161	8	185.47	3.48	0	4	-1.25
161	9	184.84	4.38	0	4	-1.215277778
161	10	194.12	3.98	0	4	-1.339285714
161	11	192.21	4.28	0	4	-1.259920635
161	12	224.61	4.12	0	4	-0.818452381
161	13	220.11	4.97	0	4	-1.125992063
161	14	257.21	5.71	0	4	-1.150793651
161	15	283.67	5.5	0	4	-1.28968254
161	16	250.65	5.07	0	4	-1.25
161	17	241.75	4.77	0	4	-1.056547619
161	18	200.05	4.39	0	4	-0.753968254
161	19	243.72	1.66	0	5	0.411706349
161	20	337.44	1.5	0	5	1.408730159
161	21	13.58	2.57	0	6	2.232142857
161	22	12.44	2.11	0	6	2.242063492
161	23	336.61	1.64	0	6	3.179563492
162	0	228.38	1.13	0	6	3.095238095
162	1	193.86	1.92	0	6	3.581349206
162	2	15.8	1.58	0	6	2.966269841
162	3	154.35	1.3	0	6	2.271825397

162	4	155.69	0.97	0	6	2.008928571
162	5	155.72	0.96	0	6	1.83531746
162	6	247.59	1.62	0	5	1.354166667
162	7	197.74	2.55	0	6	1.81547619
162	8	186.94	3.09	0	5	0.248015873
162	9	230.78	4.54	0	4	-1.175595238
162	10	252.35	4.92	0	3	-1.52281746
162	11	254.69	5.59	0	3	-1.5625
162	12	246	5.62	0	4	-1.478174603
162	13	209.77	6.99	0	4	-1.468253968
162	14	206.08	7.14	0	4	-1.423611111
162	15	197.93	7.49	0	4	-1.344246032
162	16	201.14	7.28	0	4	-1.121031746
162	17	203.29	6.44	0	4	-0.907738095
162	18	189.31	4.08	0	4	-0.555555556
162	19	175.95	4.49	0	5	0.183531746
162	20	171.24	3.18	0	5	0.58531746
162	21	173.82	1.78	0	5	0.952380952
162	22	214.09	2.49	0	6	1.617063492
162	23	168.01	2.62	0	5	0.992063492
163	0	166.61	2.06	0	5	0.99702381
163	1	266.79	2.26	0	6	1.825396825
163	2	174.71	1.8	0	6	1.875
163	3	339.43	2.29	0	5	0.838293651
163	4	205.84	2.18	0	5	0.327380952
163	5	203.92	2.15	0	5	0.347222222
163	6	186.08	2.99	0	5	-0.327380952
163	7	179.15	3.31	0	4	-1.165674603
163	8	179.33	3.86	0	4	-1.279761905
163	9	204.72	4.11	0	4	-1.170634921
163	10	245.2	5.96	0	4	-1.448412698
163	11	249.31	6.49	0	4	-1.423611111
163	12	222.26	5.83	0	4	-1.314484127
163	13	234.8	5.37	0	4	-1.284722222
163	14	228.62	5.9	0	4	-1.195436508
163	15	10.96	8.16	0	4	-0.907738095
163	16	210.27	4.17	0	4	-0.580357143
163	17	166.8	2.41	0	5	0.089285714
163	18	239.01	8	0.09	5	0.37202381
163	19	290.41	5.15	0.07	5	0.138888889
163	20	130.9	3.01	0.03	5	0.034722222
163	21	173.38	2.12	0	5	0.099206349
163	22	174.5	3.41	0.01	5	0.396825397
163	23	161.62	1.96	0.01	5	-0.109126984
164	0	164.3	1.57	0	5	-0.114087302
164	1	172.63	1.99	0	5	-0.128968254
164	2	184.12	1.92	0	4	-0.625
164	3	173.65	2.36	0	5	-0.357142857
164	4	173.3	4.48	0.03	4	-0.535714286

164	5	122.77	3.06	0.06	4	-0.932539683
164	6	78.26	2.98	0	4	-0.99702381
164	7	79.01	3.1	0	4	-1.076388889
164	8	90	3.35	0	4	-1.056547619
164	9	105.36	2.92	0.01	4	-0.982142857
164	10	103.3	2.53	0	4	-1.066468254
164	11	149.52	2.65	0	4	-1.121031746
164	12	76.47	3.14	0	4	-1.150793651
164	13	48.71	4.88	0	4	-1.170634921
164	14	56.72	3.98	0	4	-1.116071429
164	15	100.71	2.4	0	4	-1.130952381
164	16	72.96	2.46	0.01	4	-1.031746032
164	17	84.92	1.87	0	4	-0.942460317
164	18	66.24	2.75	0	4	-0.91765873
164	19	61.99	2.77	0	4	-0.972222222
164	20	58.56	2.57	0	4	-0.972222222
164	21	59.34	2.85	0	4	-0.932539683
164	22	67.94	2.87	0	4	-0.912698413
164	23	49.73	2.53	0	4	-0.912698413
165	0	63.57	2.18	0	4	-0.912698413
165	1	45.43	3.34	0	4	-0.972222222
165	2	46.8	2.1	0	4	-0.972222222
165	3	49.48	2.94	0	4	-0.942460317
165	4	54.34	2.58	0	4	-0.952380952
165	5	72.34	2.46	0	4	-0.927579365
165	6	45.14	2.14	0	4	-1.086309524
165	7	48.02	3.31	0	4	-1.175595238
165	8	83.76	2.82	0	4	-1.240079365
165	9	137.98	2.95	0	4	-1.393849206
165	10	150.03	3	0	4	-1.304563492
165	11	179.14	4.07	0	4	-1.145833333
165	12	168.85	3.12	0	4	-0.97718254
165	13	152.96	2.74	0	4	-1.041666667
165	14	127.02	3.1	0	4	-1.051587302
165	15	97.2	3.73	0	4	-1.046626984
165	16	143.72	2.63	0	4	-1.066468254
165	17	181.78	2.32	0	4	-1.011904762
165	18	143.96	2.53	0	4	-0.887896825
165	19	106.16	2.03	0	4	-0.828373016
165	20	101.6	2.05	0.11	4	-0.798611111
165	21	117.83	2.16	0.01	5	-0.35218254
165	22	117.02	1.99	0	5	-0.391865079
165	23	31.18	2.36	0	4	-0.768849206
166	0	15.52	1.38	0	4	-0.882936508
166	1	60	2.44	0	4	-0.887896825
166	2	88.62	1.7	0	4	-0.734126984
166	3	52.14	1.41	0	4	-0.739087302
166	4	68.15	1.33	0	4	-0.907738095
166	5	31.5	2.89	0	4	-0.967261905

166	6	22.11	3.38	0	4	-1.081349206
166	7	76.79	1.79	0	4	-1.096230159
166	8	54.1	2.93	0	4	-1.096230159
166	9	96.65	2.66	0	4	-1.130952381
166	10	66.27	2.83	0	4	-1.135912698
166	11	161.49	2.42	0	4	-1.23015873
166	12	129.46	2.41	0	4	-1.245039683
166	13	174.14	3.88	0	4	-1.279761905
166	14	174.03	3.97	0	4	-1.225198413
166	15	173.4	4.23	0	4	-1.185515873
166	16	161.78	3.15	0	4	-1.116071429
166	17	151.27	2.59	0	4	-1.076388889
166	18	147.13	2.42	0	4	-0.962301587
166	19	152.94	2.54	0	4	-0.9375
166	20	133.11	2.61	0	4	-0.947420635
166	21	113.9	2.14	0	4	-0.887896825
166	22	92.3	1.71	0	4	-0.892857143
166	23	89.6	2.26	0	4	-0.95734127
167	0	80.03	2.28	0	4	-0.873015873
167	1	111.93	1.77	0	4	-0.768849206
167	2	104.13	1.49	0	4	-0.853174603
167	3	65.88	1.2	0	4	-0.783730159
167	4	24.94	1.49	0	4	-0.669642857
167	5	78.3	1.5	0	4	-0.540674603
167	6	49.42	2.08	0	4	-0.580357143
167	7	234.08	1.37	0	4	-0.87797619
167	8	40.5	1.68	0	4	-0.868055556
167	9	298.44	2.37	0	4	-0.887896825
167	10	234.61	1.86	0	4	-1.145833333
167	11	137.72	3.02	0	4	-1.205357143
167	12	190.24	4.8	0	4	-1.413690476
167	13	178.64	4.37	0	4	-1.443452381
167	14	194.4	3.82	0	4	-1.26984127
167	15	209.42	3.3	0	4	-0.992063492
167	16	179.44	3.87	0	4	-0.95734127
167	17	220.14	2.35	0	5	-0.27281746
167	18	217.32	1.68	0	5	0.044642857
167	19	179.99	2.46	0	5	-0.35218254
167	20	173.38	2.8	0	4	-0.580357143
167	21	167.34	3.06	0	4	-0.620039683
167	22	172.59	3.94	0	4	-0.714285714
167	23	177.68	4.29	0	4	-0.669642857
168	0	169.86	2.18	0	5	-0.436507937
168	1	261.75	1.6	0	4	-0.580357143
168	2	205.7	1.83	0	5	-0.446428571
168	3	181.34	2.16	0	5	-0.198412698
168	4	359.43	2.01	0	5	-0.124007937
168	5	13.72	3.82	0	5	-0.396825397
168	6	350.69	3.26	0	4	-0.882936508

168	7	202.24	3.08	0	4	-1.25
168	8	214.67	3.4	0	4	-1.091269841
168	9	175.55	5.25	0	3	-1.50297619
168	10	175.58	7.44	0	4	-1.294642857
168	11	188.93	10.17	0	4	-1.478174603
168	12	193.78	9.79	0	3	-1.62202381
168	13	190.71	9.52	0	3	-1.592261905
168	14	193.27	7.81	0	4	-1.463293651
168	15	193.2	8.47	0	3	-1.507936508
168	16	185.38	8.26	0	4	-1.071428571
168	17	187.01	6.9	0	4	-0.649801587
168	18	183.43	6.33	0	5	-0.381944444
168	19	183.39	5.33	0	5	-0.109126984
168	20	193.11	3.59	0	5	-0.024801587
168	21	173.84	3.86	0	5	0.27281746
168	22	182.16	5.9	0	5	-0.25297619
168	23	179.78	5.18	0	5	-0.138888889
169	0	177.43	4.49	0	5	0.128968254
169	1	177.13	3.63	0	5	0.183531746
169	2	180.98	4.45	0	5	0.049603175
169	3	181.74	2.09	0	5	-0.183531746
169	4	181.07	2.29	0	5	0.213293651
169	5	176.29	2.59	0	5	0.302579365
169	6	176.08	3.56	0	4	-0.625
169	7	174.72	4.23	0	4	-1.125992063
169	8	171.02	4.42	0	4	-1.195436508
169	9	198.49	5.39	0	4	-1.468253968
169	10	220.06	5.74	0	4	-1.443452381
169	11	232.23	5.31	0	4	-1.423611111
169	12	224.32	6.02	0	4	-1.369047619
169	13	216.37	6.3	0	4	-1.19047619
169	14	229.84	6.95	0	4	-1.23015873
169	15	248.39	5.7	0	4	-1.165674603
169	16	345.13	6.94	0	4	-0.704365079
169	17	324.43	4.34	0	4	-1.393849206
169	18	43.35	3.6	0	4	-1.041666667
169	19	3.96	4.86	0	4	-0.887896825
169	20	9.66	4.36	0	4	-0.689484127
169	21	24.25	3.52	0	5	-0.287698413
169	22	7.45	2.25	0	5	-0.069444444
169	23	39.26	2.29	0	5	0.386904762
170	0	22.72	4.42	0	5	0.456349206
170	1	27.3	4.41	0	5	0.818452381
170	2	31.28	6.39	0	5	1.25
170	3	36.01	3.7	0	5	0.709325397
170	4	24.97	4.8	0	5	0.709325397
170	5	22.79	3.85	0	5	0.600198413
170	6	21.39	3.3	0	5	-0.014880952
170	7	23.39	3.01	0	4	-0.530753968

170	8	82.69	2.3	0.01	5	-0.421626984
170	9	82.78	2.2	0	4	-0.56547619
170	10	42.21	2.82	0.17	4	-0.590277778
170	11	14.42	4.39	0.01	4	-0.902777778
170	12	19.9	3.93	0	4	-1.096230159
170	13	359.62	3.78	0	4	-1.225198413
170	14	29.11	2.59	0	4	-1.116071429
170	15	46.26	2.79	0	4	-0.952380952
170	16	4.62	4.2	0	4	-0.89781746
170	17	358.06	3.57	0	4	-0.773809524
170	18	19.16	3.61	0	4	-0.947420635
170	19	16.27	3.98	0	4	-0.848214286
170	20	23.19	4.97	0	4	-0.828373016
170	21	16.41	3.86	0	4	-0.793650794
170	22	9.3	3.83	0	4	-0.610119048
170	23	26.3	3.85	0	4	-0.749007937
171	0	9.6	4.12	0	4	-0.818452381
171	1	2.75	4.73	0	4	-0.99702381
171	2	14.66	4.95	0	4	-0.987103175
171	3	5.47	6.11	0	4	-1.076388889
171	4	10.14	5.6	0	4	-1.170634921
171	5	11.84	5.39	0	4	-1.150793651
171	6	8.91	6.74	0	4	-1.121031746
171	7	6.04	6.81	0	4	-1.180555556
171	8	6.41	6.21	0	4	-1.245039683
171	9	4.36	6.27	0	4	-1.364087302
171	10	2.78	6.31	0	4	-1.448412698
171	11	3.96	6.96	0	2	-1.721230159
171	12	3.89	5.77	0	3	-1.646825397
171	13	359.5	5.05	0	4	-1.344246032
171	14	1.45	4.95	0	4	-1.398809524
171	15	0.49	4.77	0	4	-1.294642857
171	16	10.37	4.22	0	4	-1.205357143
171	17	336.34	2.32	0	4	-1.051587302
171	18	201.61	2.2	0	4	-0.853174603
171	19	243.56	1.36	0	5	0.099206349
171	20	274.62	1.32	0	5	0.540674603
171	21	21.1	2.23	0	5	1.006944444
171	22	18.06	3.32	0	5	1.279761905
171	23	23.36	2.04	0	6	1.800595238
172	0	29.5	3.09	0	6	1.726190476
172	1	40.05	2.6	0	6	1.860119048
172	2	25.09	2.73	0	6	1.939484127
172	3	30.99	4.23	0	6	2.132936508
172	4	71.04	2.14	0	6	1.795634921
172	5	137.54	1.38	0	6	1.592261905
172	6	180.56	1.78	0	5	0.744047619
172	7	149.25	1.96	0	4	-0.739087302
172	8	26.95	4.21	0	4	-1.215277778

172	9	6.66	4.69	0	4	-1.369047619
172	10	359.22	5.42	0	3	-1.60218254
172	11	5.85	6.64	0	2	-1.721230159
172	12	16.44	7.08	0	2	-1.731150794
172	13	18.47	6.48	0	3	-1.547619048
172	14	26.56	7.02	0	3	-1.592261905
172	15	19.27	6.66	0	3	-1.527777778
172	16	35.77	4.56	0	4	-1.354166667
172	17	306.52	2.05	0	4	-1.145833333
172	18	187.48	1.94	0	4	-0.66468254
172	19	78.74	1.6	0	5	0.982142857
172	20	338.73	1.11	0	5	1.150793651
172	21	340.58	1.38	0	6	1.646825397
172	22	3.29	1.8	0	6	2.043650794
172	23	4.24	2.36	0	6	2.118055556
173	0	2.64	2.29	0	6	1.984126984
173	1	5.92	2.2	0	6	1.765873016
173	2	21.02	2.39	0	5	1.294642857
173	3	9.96	1.86	0	5	1.091269841
173	4	29.77	1.63	0	5	1.264880952
173	5	17.87	1.68	0	5	0.813492063
173	6	339.79	1.2	0	5	-0.228174603
173	7	186	3.1	0	4	-1.195436508
173	8	182.58	6.37	0	4	-1.354166667
173	9	174.14	7.4	0	4	-1.493055556
173	10	181.07	9.8	0	4	-1.334325397
173	11	172.63	8.63	0	4	-1.443452381
173	12	171.57	8.7	0	4	-1.294642857
173	13	167.7	9.41	0	3	-1.507936508
173	14	163.19	8.62	0	4	-1.235119048
173	15	167.42	8.78	0	4	-0.783730159
173	16	167.16	7.13	0	5	-0.337301587
173	17	183.03	7.43	0	4	-0.575396825
173	18	169.38	6.84	0	4	-0.520833333
173	19	165.77	6.58	0	5	-0.35218254
173	20	166.4	5.58	0	5	-0.471230159
173	21	175.68	5.49	0.03	5	0.064484127
173	22	182.05	6.08	0.13	5	-0.317460317
173	23	182.01	3.82	0.05	5	-0.456349206
174	0	170.34	2.87	0	5	-0.391865079
174	1	170.88	3.45	0	5	-0.367063492
174	2	179.21	3.08	0	5	-0.128968254
174	3	204.38	1.9	0	5	-0.208333333
174	4	136.27	1.81	0	5	0.35218254
174	5	195.95	1.43	0	5	-0.158730159
174	6	179.56	2.23	0	4	-0.60515873
174	7	177.11	2.49	0	4	-0.932539683
174	8	165.36	3.05	0	4	-1.006944444
174	9	168.9	4.25	0	4	-1.393849206

174	10	169.82	4.65	0	4	-1.423611111
174	11	176.06	4.48	0	4	-1.319444444
174	12	192.78	6.45	0	4	-1.19047619
174	13	198.19	8.62	0	4	-1.359126984
174	14	197.49	8.94	0	4	-1.344246032
174	15	190.91	8.9	0	4	-1.046626984
174	16	202.45	6.59	0	4	-0.922619048
174	17	201.76	6.3	0	4	-0.912698413
174	18	204.15	5.24	0	4	-0.719246032
174	19	197.42	4.53	0	5	-0.337301587
174	20	203.21	2.36	0	5	0.024801587
174	21	225.08	2.43	0	5	0.763888889
174	22	195.68	2.4	0	6	1.567460317
174	23	218.74	3.05	0	5	0.927579365
175	0	231.61	3.48	0	5	-0.223214286
175	1	224.1	3.42	0	5	-0.119047619
175	2	205.16	3.05	0	5	-0.119047619
175	3	230.77	1.89	0	5	0.109126984
175	4	219.08	2.83	0	5	0.734126984
175	5	217.98	3.15	0	5	0.367063492
175	6	242.74	4.15	0	4	-0.848214286
175	7	267.49	5.28	0	4	-1.433531746
175	8	317.73	4.22	0	2	-1.760912698
175	9	352.65	4.64	0	3	-1.656746032
175	10	334.07	3.72	0	3	-1.572420635
175	11	343.77	3.73	0	4	-1.463293651
175	12	335.87	4.49	0	2	-1.865079365
175	13	330.28	4.98	0	2	-1.89484127
175	14	5.76	7.65	0	3	-1.676587302
175	15	6.53	6.67	0	3	-1.567460317
175	16	2.28	4.18	0	4	-1.359126984
175	17	275.37	3.1	0	4	-1.378968254
175	18	236.29	2.47	0	4	-0.89781746
175	19	261.28	1.95	0	5	0.818452381
175	20	9.61	1.85	0	6	1.50297619
175	21	42.25	2.64	0	6	1.651785714
175	22	19.39	2.27	0	6	2.83234127
175	23	17.8	4.05	0	6	3.030753968
176	0	10.45	1.87	0	6	2.698412698
176	1	27.45	4.41	0	6	2.256944444
176	2	27.17	6.08	0	6	3.035714286
176	3	26.63	4.58	0	6	3.139880952
176	4	27.43	3.67	0	6	3.169642857
176	5	32.41	4.35	0	6	2.465277778
176	6	63.91	3.66	0	6	1.795634921
176	7	31.53	2.31	0	4	-0.505952381
176	8	317.28	2.43	0	4	-0.848214286
176	9	187.25	3.48	0	4	-1.344246032
176	10	174.45	3.85	0	3	-1.651785714

176	11	173.71	4.81	0	3	-1.661706349
176	12	157.51	4.37	0	3	-1.572420635
176	13	164.8	4.51	0	4	-1.448412698
176	14	165.88	4.37	0	4	-1.324404762
176	15	160.7	4.74	0	4	-1.125992063
176	16	165.84	5.49	0	4	-0.773809524
176	17	165.35	5.27	0	4	-0.639880952
176	18	168.44	5.43	0	4	-0.595238095
176	19	175.36	5.32	0	5	-0.381944444
176	20	175.49	5.03	0	5	-0.163690476
176	21	173.56	3.21	0	5	0
176	22	180.94	2.85	0	5	0.089285714
176	23	190.59	1.89	0	5	0.327380952
177	0	198.16	1.06	0	5	0.421626984
177	1	307.16	1.23	0	5	1.23015873
177	2	5.95	1.07	0	5	1.413690476
177	3	29.32	1.12	0	5	0.763888889
177	4	13.87	1.2	0	5	0.302579365
177	5	352.87	1.06	0	5	-0.069444444
177	6	209.82	1.69	0	4	-0.649801587
177	7	183.63	4.09	0	4	-1.071428571
177	8	183.01	4.82	0	4	-1.254960317
177	9	173.73	4.83	0	3	-1.592261905
177	10	166.87	5.73	0	3	-1.587301587
177	11	167.64	6.69	0	4	-1.354166667
177	12	169.05	7.32	0	4	-1.165674603
177	13	166.54	7.87	0	4	-0.863095238
177	14	165.41	6.91	0	4	-0.813492063
177	15	164.52	7.39	0	4	-0.95734127
177	16	166.76	7.84	0	4	-0.868055556
177	17	168.4	6.8	0	4	-0.575396825
177	18	167.66	6.22	0	5	0.168650794
177	19	167.93	4.55	0	5	0.391865079
177	20	211.22	3.09	0	5	-0.109126984
177	21	31.46	1.87	0	5	0.29265873
177	22	19.28	2.21	0	5	1.116071429
177	23	29.16	3.24	0	5	1.016865079
178	0	32.7	4.71	0	5	1.240079365
178	1	24.87	5.17	0	5	1.23015873
178	2	123.27	2.1	0	5	0.590277778
178	3	29.85	2.71	0	5	0.248015873
178	4	33.82	3.07	0	5	0.476190476
178	5	34.47	4.1	0.05	5	0.386904762
178	6	208.06	2.63	0	5	-0.004960317
178	7	167.1	1.32	0	4	-0.679563492
178	8	211.29	2.54	0	4	-1.071428571
178	9	170.6	4.55	0	4	-1.433531746
178	10	171.87	4.37	0	4	-1.468253968
178	11	171.53	4.45	0	4	-1.378968254

178	12	180.96	3.93	0	4	-1.319444444
178	13	181.78	6.48	0	4	-1.19047619
178	14	190.51	7.51	0	4	-1.388888889
178	15	189.78	7.02	0	4	-1.155753968
178	16	175.58	6.61	0	4	-1.121031746
178	17	161.15	4.21	0	4	-0.580357143
178	18	183.67	5.65	0	5	-0.168650794
178	19	192.33	5.76	0	4	-0.629960317
178	20	194.27	5.68	0	4	-0.739087302
178	21	189.41	5.06	0	4	-0.58531746
178	22	190.1	3.59	0	5	0.084325397
178	23	205.71	2.59	0	5	0.198412698
179	0	179.26	3.87	0	5	0.248015873
179	1	185.82	1.96	0	5	0.307539683
179	2	175.78	4.32	0	5	0.243055556
179	3	186.26	2.08	0	5	-0.133928571
179	4	170.92	2.21	0	5	0.29265873
179	5	174.95	3.08	0	5	-0.37202381
179	6	179.54	4.02	0	4	-0.798611111
179	7	173.16	3.87	0	4	-1.101190476
179	8	172.17	3.69	0	4	-1.225198413
179	9	216.92	2.85	0	4	-1.076388889
179	10	254.43	3.96	0	3	-1.512896825
179	11	226.9	4.12	0	4	-1.418650794
179	12	205.05	5.54	0	4	-1.26984127
179	13	248.23	6.93	0.57	4	-0.907738095
179	14	150	2.57	0.05	4	-0.669642857
179	15	349.63	3.3	0.01	4	-0.91765873
179	16	158.14	2.59	0	4	-0.689484127
179	17	207.99	2.87	0	4	-0.749007937
179	18	136.85	1.99	0	5	-0.451388889
179	19	133.33	1.82	0	5	0.044642857
179	20	332.04	1.64	0	5	0.634920635
179	21	135.61	1.59	0	5	0.600198413
179	22	61.87	1.79	0	5	1.041666667
179	23	23.78	2.74	0	5	0.679563492
180	0	24.45	4.6	0	6	2.182539683
180	1	30.35	5.52	0	6	2.182539683
180	2	25.63	5.12	0	6	1.626984127
180	3	27.57	3.83	0	5	0.659722222
180	4	30.65	4.74	0	5	1.205357143
180	5	45.43	3.89	0	5	1.339285714
180	6	45.96	3.82	0	5	0.198412698
180	7	17.17	2.55	0	4	-0.99702381
180	8	39.95	3.39	0	4	-1.195436508
180	9	2.61	4.11	0	4	-1.225198413
180	10	346.29	3.38	0	4	-1.354166667
180	11	258.68	3.84	0	4	-1.383928571
180	12	181.46	4.76	0	4	-1.468253968

180	13	158	3.89	0	4	-1.453373016
180	14	162.89	4	0	3	-1.587301587
180	15	170.5	4.56	0	3	-1.666666667
180	16	167.64	4.48	0	4	-0.97718254
180	17	173.51	4.71	0	4	-0.669642857
180	18	177.86	6.17	0	4	-0.64484127
180	19	179.61	5.26	0	4	-0.530753968
180	20	263.94	2.42	0	5	0.357142857
180	21	77.7	1.68	0	5	0.193452381
180	22	16.84	3.17	0	5	0.570436508
180	23	20.15	4.47	0	5	0.803571429
181	0	25.66	5.65	0	5	1.096230159
181	1	33.32	6.27	0	5	1.195436508
181	2	33.85	5.01	0	5	0.709325397
181	3	69.02	2.01	0	5	-0.183531746
181	4	14.99	1.87	0	5	-0.213293651
181	5	16.6	3.89	0	5	-0.173611111
181	6	28.52	3.7	0	5	-0.317460317
181	7	34.67	3.21	0	4	-0.654761905
181	8	96.79	1.93	0	4	-1.031746032
181	9	189.55	3.54	0	4	-1.259920635
181	10	174.52	4.12	0	4	-1.443452381
181	11	165.27	4.8	0	3	-1.636904762
181	12	156.79	4.41	0	2	-1.701388889
181	13	161.47	5.39	0	2	-1.825396825
181	14	156.65	4.83	0	2	-1.770833333
181	15	161.28	4.72	0	3	-1.592261905
181	16	164.15	4.84	0	4	-1.364087302
181	17	56.12	6.17	0.07	4	-0.892857143
181	18	111.96	4.5	0.28	5	0.362103175
181	19	195.26	2.38	0	5	-0.178571429
181	20	192.36	1.54	0	4	-0.505952381
181	21	237.67	1.64	0	5	-0.158730159
181	22	81.75	1.47	0	5	0.744047619
181	23	50.49	1.6	0	5	0.004960317
182	0	27.6	3.87	0	5	0.808531746
182	1	98.88	2.99	0	5	0.95734127
182	2	39	2.67	0	5	-0.069444444
182	3	111.14	2.14	0	5	0.694444444
182	4	23.48	2.8	0	5	0.119047619
182	5	29.23	3.67	0	4	-0.500992063
182	6	24.85	2.97	0	4	-0.97718254
182	7	3.25	5.22	0	4	-1.180555556
182	8	2.58	5.89	0	4	-1.344246032
182	9	336.66	4.77	0	3	-1.676587302
182	10	344.78	4.45	0	2	-1.721230159
182	11	300.24	5.08	0	1	-1.989087302
182	12	322.99	4.84	0	1	-1.924603175
182	13	336.39	4.53	0	2	-1.889880952

182	14	343.97	5.09	0	3	-1.592261905
182	15	335.47	4.56	0	4	-1.354166667
182	16	336.84	3.6	0	4	-1.413690476
182	17	243.11	3.08	0	4	-1.433531746
182	18	226.03	2.26	0	4	-0.823412698
182	19	251.85	2.23	0	5	0.580357143
182	20	231.08	1.4	0	6	1.527777778
182	21	83.18	2.71	0	6	1.800595238
182	22	50.81	2.69	0	6	1.721230159
182	23	29.3	3.67	0	6	2.118055556
183	0	42.82	3.86	0	6	2.485119048
183	1	32.98	2.98	0	6	1.50297619
183	2	46.91	4.48	0	6	1.795634921
183	3	31.23	2.91	0	5	0.753968254
183	4	38.26	3.06	0	6	1.889880952
183	5	30.17	2.9	0	5	1.225198413
183	6	26.05	3.17	0	5	-0.213293651
183	7	35.02	2.76	0	4	-0.922619048
183	8	233.81	2.48	0	4	-1.349206349
183	9	12.61	3.23	0	4	-1.130952381
183	10	340.73	2.93	0	4	-1.364087302
183	11	5.03	3.27	0	4	-1.448412698
183	12	348.38	3.43	0	4	-1.413690476
183	13	335.75	3.04	0	4	-1.30952381
183	14	186.81	3.55	0	4	-1.408730159
183	15	186.55	4.35	0	4	-1.443452381
183	16	181.01	3.97	0	4	-1.23015873
183	17	175.24	4.01	0	4	-1.071428571
183	18	173.14	1.53	0	4	-0.600198413
183	19	196.07	1.18	0	5	0.570436508
183	20	186.15	1.47	0	5	1.051587302
183	21	0.33	2.17	0	5	1.453373016
183	22	359.49	2.18	0	5	1.423611111
183	23	357.82	1.62	0	6	1.557539683
184	0	0.67	1.66	0	6	1.870039683
184	1	12.73	2.52	0	6	1.959325397
184	2	19.65	3.18	0	6	2.152777778
184	3	23.21	3.02	0	6	1.984126984
184	4	17.63	2.17	0	6	2.063492063
184	5	19.28	2.47	0	6	2.033730159
184	6	38.35	1.89	0	5	0.887896825
184	7	236.06	2.39	0	5	-0.426587302
184	8	194.07	3.01	0	4	-0.95734127
184	9	188.05	3.08	0	4	-1.374007937
184	10	192.7	4.26	0	4	-1.383928571
184	11	188.98	5.03	0	4	-1.498015873
184	12	180.75	4.5	0	4	-1.30952381
184	13	176.57	4.57	0	4	-1.493055556
184	14	163.67	3.45	0	4	-1.448412698

184	15	192.36	3.07	0	4	-1.443452381
184	16	193.49	4.16	0	4	-1.26984127
184	17	231.71	3.52	0	4	-1.125992063
184	18	207.44	3.26	0	4	-0.540674603
184	19	183.26	2.52	0	5	-0.024801587
184	20	148.75	1.45	0	5	0.486111111
184	21	222.16	1.49	0	5	1.116071429
184	22	0.6	1.85	0	5	1.388888889
184	23	358.31	2.71	0	5	1.279761905
185	0	351	2.41	0	6	1.537698413
185	1	40.65	1.57	0	6	2.023809524
185	2	11.14	1.72	0	6	1.790674603
185	3	0.7	1.57	0	6	1.547619048
185	4	10.95	1.97	0	5	1.448412698
185	5	359.53	1.96	0	5	1.091269841
185	6	10.44	1.51	0	5	-0.188492063
185	7	233.5	2.27	0	4	-0.992063492
185	8	187.65	3.63	0	4	-1.324404762
185	9	195.11	3.37	0	4	-1.274801587
185	10	243.01	3.14	0	4	-0.87797619
185	11	206.18	3.09	0	4	-1.121031746
185	12	166.92	3.54	0	4	-1.488095238
185	13	176.45	3.37	0	4	-0.813492063
185	14	198.35	2.43	0	5	-0.471230159
185	15	165.72	2.03	0	5	-0.357142857
185	16	165.98	1.89	0.01	5	-0.203373016
185	17	176.8	3.14	0.15	5	-0.004960317
185	18	188.47	2	0.04	5	0.034722222
185	19	181.19	2.43	0	5	-0.128968254
185	20	181.94	2.98	0	4	-0.58531746
185	21	199.51	2.12	0	5	-0.376984127
185	22	191.19	2.5	0	5	-0.33234127
185	23	189.16	3.97	0	5	-0.198412698
186	0	185.75	3.3	0	5	-0.491071429
186	1	182.33	1.26	0	5	-0.376984127
186	2	181.77	1.09	0	5	-0.426587302
186	3	177.41	1.96	0	5	-0.198412698
186	4	196.02	1.31	0	5	-0.029761905
186	5	31.87	1.64	0	5	-0.307539683
186	6	145.24	1.57	0	4	-0.654761905
186	7	176.03	2.1	0	4	-1.041666667
186	8	144.29	1.78	0	4	-1.135912698
186	9	178.45	2.65	0	4	-1.220238095
186	10	196.7	2.94	0	4	-1.240079365
186	11	114.75	2.46	0	4	-1.180555556
186	12	219.01	3.21	0	4	-1.006944444
186	13	184.49	4.95	0	4	-1.319444444
186	14	167.82	3.69	0	3	-1.54265873
186	15	175.44	3.84	0	4	-1.488095238

186	16	166.09	2.77	0	4	-1.001984127
186	17	205.71	2.02	0	4	-0.634920635
186	18	211.81	3.27	0	4	-0.634920635
186	19	230.09	3.15	0	5	-0.431547619
186	20	256.6	2.86	0	5	-0.024801587
186	21	268.04	3.04	0	5	0.337301587
186	22	320.98	3.51	0	5	-0.386904762
186	23	5.03	3.96	0	5	-0.446428571
187	0	24.57	4.49	0	4	-0.744047619
187	1	351.62	3.14	0	4	-0.560515873
187	2	313.01	2.46	0	4	-0.590277778
187	3	119.78	2.08	0	5	0.148809524
187	4	55.81	2.91	0	5	0.208333333
187	5	35.38	4.51	0	4	-0.505952381
187	6	12.61	4.7	0	4	-0.99702381
187	7	5.91	3.8	0	4	-1.235119048
187	8	0.4	4.39	0	4	-1.354166667
187	9	1.81	4.91	0	4	-1.478174603
187	10	358.39	5.79	0	4	-1.468253968
187	11	1.24	5.63	0	3	-1.557539683
187	12	358.64	6	0	3	-1.58234127
187	13	338.27	5.23	0	3	-1.686507937
187	14	334.8	4.97	0	2	-1.785714286
187	15	358.48	5.42	0	3	-1.607142857
187	16	358.25	5.22	0	4	-1.299603175
187	17	358.84	5.29	0	4	-1.205357143
187	18	2.07	5.14	0	4	-0.967261905
187	19	2.75	5.16	0	4	-0.833333333
187	20	6.84	5.46	0	4	-0.56547619
187	21	27.01	2.91	0	5	0.183531746
187	22	28.17	3.11	0	5	0.89781746
187	23	56.15	3.05	0	5	0.947420635
188	0	17.27	4.77	0	5	0.451388889
188	1	17.68	7.39	0	4	-0.674603175
188	2	20.56	8.1	0	4	-0.833333333
188	3	23.51	6.95	0	4	-0.749007937
188	4	19.77	6.62	0	4	-0.833333333
188	5	30.38	4.6	0	4	-0.729166667
188	6	20.66	4.94	0	4	-1.135912698
188	7	6.13	6.01	0	4	-1.408730159
188	8	359.48	5.68	0	3	-1.552579365
188	9	358.12	5.23	0	3	-1.646825397
188	10	355.33	5.09	0	3	-1.666666667
188	11	9.45	5.94	0	3	-1.646825397
188	12	5.66	6.39	0	3	-1.681547619
188	13	15.65	6.29	0	3	-1.552579365
188	14	11.72	4.89	0	4	-1.359126984
188	15	22.71	3.67	0	4	-1.23015873
188	16	356.74	2.84	0	4	-1.175595238

188	17	359.01	4.31	0	4	-1.046626984
188	18	10.75	6.99	0	4	-1.334325397
188	19	16.04	6.45	0	4	-1.125992063
188	20	4.69	4.98	0	4	-0.863095238
188	21	30.72	2.66	0	5	-0.014880952
188	22	27.88	3.11	0	5	0.892857143
188	23	21.82	4.3	0	5	1.125992063
189	0	30.7	4.93	0	5	0.89781746
189	1	54.62	3.83	0	5	0.37202381
189	2	44.79	2.92	0	5	0.481150794
189	3	21.49	4.79	0	5	0.044642857
189	4	9.36	6.31	0	4	-0.679563492
189	5	9.14	6.53	0	4	-0.853174603
189	6	8.82	7.63	0	4	-1.205357143
189	7	3.73	8.44	0	4	-1.329365079
189	8	6.36	6.73	0	3	-1.552579365
189	9	12.14	7.54	0	2	-1.755952381
189	10	4.89	7.06	0	2	-1.716269841
189	11	7.5	7.18	0	2	-1.760912698
189	12	1.14	5.67	0	3	-1.532738095
189	13	4.41	5.9	0	3	-1.58234127
189	14	4.24	7.61	0	4	-1.354166667
189	15	2.48	7.98	0	4	-1.284722222
189	16	358.48	6.22	0	4	-1.215277778
189	17	2.66	5.27	0	4	-1.25
189	18	354.9	5.75	0	4	-1.200396825
189	19	2.1	5.21	0	4	-0.952380952
189	20	359.38	5.15	0	4	-0.922619048
189	21	358.94	6.42	0	4	-0.89781746
189	22	338.35	4.62	0	4	-0.763888889
189	23	353.6	3.66	0	4	-0.749007937
190	0	343.44	3.47	0	4	-0.744047619
190	1	6.18	3.89	0	4	-0.68452381
190	2	63.11	2.7	0	5	-0.228174603
190	3	71.34	2.04	0	5	0.307539683
190	4	17.77	4.34	0	5	-0.327380952
190	5	9.92	4.93	0	4	-0.798611111
190	6	359.37	4.12	0	4	-1.160714286
190	7	2.19	5.06	0	4	-1.433531746
190	8	359.06	6.27	0	3	-1.527777778
190	9	359.95	6.97	0	3	-1.666666667
190	10	2.85	6.52	0	2	-1.750992063
190	11	6.5	7.15	0	2	-1.755952381
190	12	26.37	5.89	0	3	-1.631944444
190	13	27.26	4.61	0	4	-1.428571429
190	14	24.59	4.89	0	4	-1.433531746
190	15	349.22	3.74	0	4	-1.443452381
190	16	345.59	4.47	0	3	-1.676587302
190	17	350.47	3.72	0	4	-1.498015873

190	18	241.57	2.53	0	4	-0.992063492
190	19	246.75	2.23	0	5	0.9375
190	20	49.07	1.97	0	5	0.798611111
190	21	58.4	2.44	0	5	1.443452381
190	22	47.3	2.07	0	6	1.924603175
190	23	31.39	2.65	0	6	2.103174603
191	0	59.56	2.06	0	6	2.291666667
191	1	25.56	1.84	0	6	2.748015873
191	2	1.3	1.85	0	6	2.22718254
191	3	3.19	1.8	0	6	1.577380952
191	4	19.22	2.64	0	6	1.537698413
191	5	16.33	1.38	0	5	1.081349206
191	6	36.75	2.49	0	5	0.104166667
191	7	180.09	2.8	0	4	-1.160714286
191	8	179.46	3.93	0	4	-1.334325397
191	9	167.52	4.27	0	3	-1.547619048
191	10	183.16	5.9	0	3	-1.58234127
191	11	201.3	7.46	0	2	-1.780753968
191	12	197.3	7.84	0	3	-1.577380952
191	13	197.73	7.21	0	4	-1.349206349
191	14	196.37	6.54	0	4	-1.021825397
191	15	190.63	5.6	0	4	-0.758928571
191	16	186.46	3.88	0	5	-0.208333333
191	17	240.76	2.22	0	5	0.952380952
191	18	185.88	4.86	0	5	0.153769841
191	19	195.4	4.56	0	5	-0.099206349
191	20	200.21	2.65	0	5	0.615079365
191	21	189.88	2.25	0	5	0.739087302
191	22	180.43	5.39	0	5	0.491071429
191	23	188.69	6.16	0	5	-0.248015873
192	0	187.66	7.17	0	5	0.104166667
192	1	177.85	4.45	0	5	0.35218254
192	2	178.53	1.75	0	5	0.009920635
192	3	193.54	3.94	0	5	0.158730159
192	4	186.02	5.63	0	5	-0.168650794
192	5	179.62	2.42	0	5	-0.233134921
192	6	158.9	2.71	0	4	-0.595238095
192	7	209.36	4.43	0	4	-1.011904762
192	8	252.77	5.34	0	4	-1.344246032
192	9	254.67	5.15	0	2	-1.701388889
192	10	248.43	4.94	0	2	-1.750992063
192	11	250.69	5.37	0	2	-1.726190476
192	12	271.29	4.98	0	3	-1.612103175
192	13	251.24	5	0	3	-1.686507937
192	14	256.87	4.22	0	4	-1.264880952
192	15	255.51	3.06	0	4	-1.051587302
192	16	254.24	3.19	0	4	-0.848214286
192	17	245.68	3.02	0	4	-0.595238095
192	18	309.26	3.14	0	4	-0.654761905

192	19	350.7	5.18	0	4	-0.87797619
192	20	355.78	5.28	0	4	-0.942460317
192	21	350.3	3.83	0	4	-0.868055556
192	22	5.21	4.86	0	4	-0.892857143
192	23	9.69	5.74	0	4	-0.87797619
193	0	12.35	3.89	0	4	-0.68452381
193	1	7.53	2.51	0	5	-0.317460317
193	2	44.16	2	0	5	0.213293651
193	3	64.65	2.1	0	5	0.168650794
193	4	32.86	3.24	0	5	0.119047619
193	5	10.48	4.72	0	5	-0.396825397
193	6	34.55	4.18	0	4	-0.907738095
193	7	33.81	4.2	0	4	-1.21031746
193	8	7.52	7.79	0	4	-1.488095238
193	9	4.86	7.26	0	3	-1.631944444
193	10	5.62	6.9	0	2	-1.825396825
193	11	8.89	5.45	0	3	-1.666666667
193	12	354.11	5.03	0	2	-1.85515873
193	13	335.58	3.92	0	2	-1.840277778
193	14	337.37	3.86	0	3	-1.636904762
193	15	345.44	4.19	0	3	-1.567460317
193	16	0.04	4.27	0	4	-1.245039683
193	17	3.53	4.43	0	4	-1.056547619
193	18	1.09	3.64	0	4	-1.011904762
193	19	354.82	3.66	0	4	-0.729166667
193	20	1.56	4.12	0	4	-0.66468254
193	21	9.7	4.65	0	4	-0.709325397
193	22	29.49	3.31	0	5	-0.034722222
193	23	19.5	4.14	0	5	-0.079365079
194	0	17	6.11	0	5	-0.148809524
194	1	14.37	7.48	0	4	-0.550595238
194	2	13.27	6.64	0	4	-0.798611111
194	3	10.59	5.47	0	4	-0.724206349
194	4	9.41	5.34	0	4	-0.58531746
194	5	16.73	4.52	0	4	-0.729166667
194	6	17.71	5.92	0	4	-1.051587302
194	7	15.08	6.73	0	4	-1.428571429
194	8	5.48	6.86	0	3	-1.62202381
194	9	2.44	6.92	0	2	-1.711309524
194	10	359.59	6.89	0	2	-1.785714286
194	11	0.45	6.2	0	1	-1.93452381
194	12	4.33	6.91	0	2	-1.870039683
194	13	0.35	6.19	0	1	-1.909722222
194	14	359.96	5.72	0	2	-1.800595238
194	15	2.86	6.46	0	2	-1.711309524
194	16	1.21	5.38	0	3	-1.527777778
194	17	2.95	3.98	0	4	-1.28968254
194	18	298.12	1.99	0	4	-0.694444444
194	19	309.69	1.26	0	5	1.096230159

194	20	16.95	3.01	0	5	1.463293651
194	21	16.84	3.31	0	6	2.113095238
194	22	22.4	3.1	0	6	2.48015873
194	23	23.21	1.99	0	6	2.271825397
195	0	14.69	2.63	0	6	2.266865079
195	1	27.4	3.28	0	6	2.242063492
195	2	52.27	1.79	0	6	2.073412698
195	3	10.65	2.23	0	6	1.879960317
195	4	24.36	3.68	0	6	1.746031746
195	5	28.35	5.42	0	6	1.636904762
195	6	29.79	4.87	0	5	0.496031746
195	7	30.43	3.7	0	4	-0.868055556
195	8	8.53	2.58	0	4	-1.180555556
195	9	272.18	2.91	0	4	-1.205357143
195	10	191.35	4.37	0	4	-1.388888889
195	11	175.12	4.62	0	4	-1.473214286
195	12	176.58	4.4	0	4	-1.398809524
195	13	183.36	5.3	0	3	-1.656746032
195	14	174.34	4.94	0	3	-1.572420635
195	15	191.61	5.63	0	2	-1.790674603
195	16	191.36	6.1	0	4	-1.398809524
195	17	170.29	6.12	0	4	-1.061507937
195	18	166.06	4.61	0	4	-0.778769841
195	19	160.12	2.66	0	5	-0.491071429
195	20	180.91	5.74	0	5	-0.441468254
195	21	185.89	5.92	0	5	-0.337301587
195	22	183.87	4.2	0	5	-0.297619048
195	23	178.13	2.49	0	5	-0.054563492
196	0	172.68	2.61	0	5	-0.396825397
196	1	160.4	1.68	0	5	-0.148809524
196	2	133.01	1.25	0	5	0.03968254
196	3	42.38	1.51	0	5	0.436507937
196	4	354.36	1.64	0	5	0.540674603
196	5	356.49	1.6	0	5	0.143849206
196	6	10.83	1.41	0	5	-0.238095238
196	7	153.45	2.29	0	4	-1.091269841
196	8	185.27	3.09	0	4	-1.334325397
196	9	183.31	4.33	0	4	-1.438492063
196	10	182.18	6.12	0	3	-1.567460317
196	11	181.66	6.16	0	4	-1.319444444
196	12	180.13	6.41	0	4	-1.28968254
196	13	173.07	7.59	0	4	-1.498015873
196	14	180.84	8.67	0.08	4	-0.843253968
196	15	176.53	7.55	0	4	-1.319444444
196	16	164.45	4.23	0	4	-1.304563492
196	17	170.18	5.69	0	4	-1.170634921
196	18	171.71	4.51	0	4	-0.803571429
196	19	175.73	4.93	0	4	-0.555555556
196	20	148.32	2.34	0	5	-0.431547619

196	21	167.19	2.52	0	4	-0.570436508
196	22	119.21	1.94	0.04	5	-0.104166667
196	23	160.98	2.54	0	5	-0.054563492
197	0	149.09	2.17	0	5	0.009920635
197	1	151.91	2.71	0	5	-0.094246032
197	2	134.43	2.1	0	5	-0.168650794
197	3	106.84	2.1	0.09	4	-0.540674603
197	4	75.88	3.29	0.03	5	-0.267857143
197	5	77.13	3.74	0	5	-0.183531746
197	6	153.6	4.58	0.16	4	-0.505952381
197	7	162.8	2.99	0.26	4	-0.639880952
197	8	165.84	4.05	0.13	4	-0.530753968
197	9	153.74	5.33	0.03	4	-0.540674603
197	10	157.82	6.8	0	4	-0.540674603
197	11	168.18	5.08	0	4	-0.868055556
197	12	171.29	7.28	0	4	-0.858134921
197	13	164.2	4.68	0	4	-0.744047619
197	14	172.66	5.53	0.12	4	-0.654761905
197	15	131.27	2.96	0	4	-0.66468254
197	16	68.12	2.71	0	4	-0.610119048
197	17	53.99	2.53	0	4	-0.530753968
197	18	49.2	2.49	0	5	-0.173611111
197	19	47.21	2.82	0	5	-0.337301587
197	20	59.13	1.83	0	5	-0.496031746
197	21	91.73	2.33	0	5	-0.27281746
197	22	60.4	2.59	0	5	-0.426587302
197	23	59.28	3.6	0	4	-0.719246032
198	0	66.23	3.76	0	4	-0.590277778
198	1	72.65	2.75	0	4	-0.625
198	2	85.08	2.09	0	5	-0.416666667
198	3	130.68	2.44	0	5	-0.029761905
198	4	184.85	3.85	0	4	-0.639880952
198	5	181.18	1.96	0	4	-0.560515873
198	6	176.63	3.71	0	4	-0.887896825
198	7	184.34	4.79	0	4	-1.150793651
198	8	178.57	4.79	0	4	-1.200396825
198	9	176.56	4.48	0	4	-1.25
198	10	177.18	4.97	0	4	-1.428571429
198	11	179.16	4.98	0	4	-1.468253968
198	12	167.87	4.51	0	3	-1.587301587
198	13	169.8	4.57	0	3	-1.577380952
198	14	163.94	4.3	0	3	-1.656746032
198	15	174.74	5.5	0	3	-1.54265873
198	16	169.4	5.13	0	4	-1.106150794
198	17	178.56	6.44	0	4	-0.778769841
198	18	187.39	5.33	0	4	-0.734126984
198	19	187.36	3.26	0	4	-0.590277778
198	20	216.31	1.71	0	5	-0.173611111
198	21	302.09	1.42	0	5	-0.257936508

198	22	109.3	1.26	0	5	0.034722222
198	23	179.52	1.19	0	5	0.054563492
199	0	25.18	3.54	0	5	0.054563492
199	1	30.34	4.52	0	5	0.183531746
199	2	25.2	3.75	0	5	-0.153769841
199	3	33.52	5.2	0	5	0.416666667
199	4	32.47	3.37	0	5	0.451388889
199	5	55.41	2.82	0	5	0.099206349
199	6	35.75	2.25	0	4	-0.783730159
199	7	7.85	2.51	0	4	-1.021825397
199	8	345.1	2.06	0	4	-1.175595238
199	9	231.16	3.08	0	4	-1.155753968
199	10	192.56	4.66	0	4	-1.453373016
199	11	189.53	5.58	0	4	-1.458333333
199	12	190.59	4.61	0	4	-1.428571429
199	13	182.3	4.13	0	3	-1.572420635
199	14	170.97	6.58	0	2	-1.760912698
199	15	173.51	7.01	0	4	-1.423611111
199	16	176.04	3.82	0.02	4	-0.699404762
199	17	171.59	4.57	0	4	-0.922619048
199	18	173.68	4.14	0	4	-0.95734127
199	19	174.1	2.66	0	4	-0.580357143
199	20	170.21	2.84	0	4	-0.803571429
199	21	182.73	3.64	0	4	-0.753968254
199	22	202.06	2.89	0	4	-0.773809524
199	23	206.93	1.95	0	4	-0.768849206
200	0	179.64	2.92	0	4	-0.64484127
200	1	194.12	2.14	0	5	-0.391865079
200	2	190.06	1.76	0	5	-0.153769841
200	3	202.52	3.45	0	5	-0.277777778
200	4	192.96	3.81	0	4	-0.595238095
200	5	196.14	3.08	0	4	-0.694444444
200	6	187.39	3.38	0	4	-0.952380952
200	7	186.43	4.93	0.16	4	-0.763888889
200	8	166.8	2.76	0	4	-0.674603175
200	9	172.67	3.57	0	4	-1.344246032
200	10	178.97	3.47	0	4	-1.383928571
200	11	194.92	5.46	0	4	-1.264880952
200	12	233.83	6.4	0	4	-1.130952381
200	13	252.78	4.85	0	4	-1.220238095
200	14	249.62	6.02	0	4	-1.264880952
200	15	260.87	5.08	0	3	-1.567460317
200	16	262.43	4.92	0	4	-1.398809524
200	17	267	3.31	0	4	-1.21031746
200	18	348.51	3.66	0	4	-0.828373016
200	19	359.09	5.38	0	4	-0.873015873
200	20	356.87	5.75	0	4	-0.922619048
200	21	1.72	7.19	0	4	-0.992063492
200	22	2.67	7.24	0	4	-0.97718254

200	23	11.62	6.3	0	4	-0.987103175
201	0	16.63	4.76	0	4	-0.838293651
201	1	5.35	4.5	0	4	-0.858134921
201	2	7.14	4.21	0	4	-0.823412698
201	3	48.56	3.43	0	5	-0.357142857
201	4	201.14	2.01	0	5	-0.138888889
201	5	172.39	1.67	0	5	-0.079365079
201	6	31.78	2.9	0	4	-0.932539683
201	7	22.96	3.97	0	4	-1.041666667
201	8	349.07	3.31	0	4	-1.071428571
201	9	118.44	2.24	0	4	-1.135912698
201	10	12.23	2.71	0	4	-1.026785714
201	11	5.52	2.34	0	4	-0.848214286
201	12	202.58	2.23	0.02	4	-0.823412698
201	13	209.67	3.39	0.01	4	-0.818452381
201	14	208.56	3.08	0	4	-1.081349206
201	15	194.71	4.03	0	4	-1.111111111
201	16	193.76	4.03	0	4	-1.071428571
201	17	188	2.47	0	4	-0.89781746
201	18	198.96	2.39	0	4	-0.838293651
201	19	185.85	2.46	0	4	-0.674603175
201	20	173.55	1.98	0	4	-0.570436508
201	21	179.43	1.91	0	4	-0.610119048
201	22	174.92	1.94	0	4	-0.615079365
201	23	45.68	2.65	0	4	-0.639880952
202	0	37.65	3.72	0	4	-0.595238095
202	1	37.41	3.78	0	4	-0.66468254
202	2	30.24	4.83	0	5	-0.431547619
202	3	30.16	4.31	0	5	-0.441468254
202	4	34.24	4.49	0	5	-0.262896825
202	5	25.95	5.98	0	4	-0.694444444
202	6	14.28	7.05	0	4	-1.140873016
202	7	9.23	6.53	0	4	-1.438492063
202	8	19.29	7.85	0	4	-1.453373016
202	9	3.06	6.48	0	3	-1.512896825
202	10	2.55	5.35	0	4	-1.294642857
202	11	353.81	4.75	0	3	-1.58234127
202	12	1.16	4.94	0	3	-1.577380952
202	13	9.78	5.2	0	3	-1.537698413
202	14	3.92	5.69	0	3	-1.636904762
202	15	0.5	4.63	0	3	-1.517857143
202	16	10.98	3.86	0	4	-1.344246032
202	17	337.65	2.8	0	4	-1.175595238
202	18	339.77	1.76	0	4	-0.828373016
202	19	9.14	1.89	0	5	0.401785714
202	20	19.82	3.93	0	5	1.264880952
202	21	21.62	5.19	0	5	1.433531746
202	22	24.44	4.58	0	6	2.023809524
202	23	30.43	3.7	0	6	2.594246032

203	0	57.41	2.24	0	6	2.068452381
203	1	25.9	3.75	0	6	1.889880952
203	2	30.31	6	0	6	2.430555556
203	3	29.17	5.57	0	6	1.552579365
203	4	37.76	3.22	0	5	1.264880952
203	5	26.17	2.95	0	5	0.788690476
203	6	28.72	3.92	0	5	-0.168650794
203	7	24.12	2.83	0	4	-0.947420635
203	8	259.49	2.26	0	4	-1.299603175
203	9	188.3	4.16	0	4	-1.344246032
203	10	178.74	4.51	0	3	-1.577380952
203	11	169.79	4.61	0	3	-1.631944444
203	12	186.75	7.54	0	4	-1.453373016
203	13	194.28	6.88	0	3	-1.512896825
203	14	198.21	6.35	0	4	-1.195436508
203	15	196.46	5.26	0	4	-1.140873016
203	16	177.49	4.49	0	4	-0.927579365
203	17	165.57	4.41	0	4	-0.833333333
203	18	93.82	6.6	0.14	4	-0.590277778
203	19	26.59	6.25	0	5	-0.347222222
203	20	25.07	3.64	0	5	-0.406746032
203	21	77.99	2.16	0	5	0.014880952
203	22	35.33	1.99	0	5	-0.342261905
203	23	167.62	1.65	0	5	-0.188492063
204	0	357.29	2.56	0	5	-0.099206349
204	1	72.59	2.42	0	5	-0.029761905
204	2	184.17	1.79	0	5	-0.168650794
204	3	217.08	2.51	0	5	-0.342261905
204	4	89.38	1.87	0	5	-0.317460317
204	5	101	1.59	0	5	-0.367063492
204	6	117.9	2.33	0	5	-0.476190476
204	7	45.03	3.1	0	4	-1.145833333
204	8	52.53	3.28	0	4	-1.324404762
204	9	329.77	4.35	0	2	-1.726190476
204	10	331.64	4.22	0	2	-1.701388889
204	11	266.44	4.76	0	1	-2.018849206
204	12	238.33	5.98	0	2	-1.760912698
204	13	260.49	5.5	0	2	-1.860119048
204	14	258.26	5.64	0	2	-1.755952381
204	15	259.42	5.27	0	4	-1.408730159
204	16	256.28	4.18	0	4	-1.398809524
204	17	299.95	3.35	0	4	-1.364087302
204	18	250.37	2.79	0	4	-0.887896825
204	19	244.43	2.44	0	5	0.441468254
204	20	130.89	1.7	0	5	0.87797619
204	21	62.51	2.64	0	5	0.654761905
204	22	56.18	2.5	0	5	1.101190476
204	23	37.3	3.24	0	5	0.600198413
205	0	71.27	2.66	0	5	1.279761905

205	1	54.34	3.62	0	5	0.600198413
205	2	55.14	3.44	0	5	-0.203373016
205	3	43.51	3.21	0	5	1.155753968
205	4	83.36	3.1	0	5	1.245039683
205	5	80.65	3.61	0	5	-0.148809524
205	6	60.83	3.41	0	4	-0.853174603
205	7	65.96	2.77	0	4	-1.086309524
205	8	12.84	6.08	0	3	-1.537698413
205	9	12.9	5.62	0	3	-1.537698413
205	10	28.78	4.74	0	4	-1.443452381
205	11	2.88	4.46	0	4	-1.478174603
205	12	8.8	5.21	0	3	-1.532738095
205	13	8.92	4.06	0	4	-1.378968254
205	14	4.13	3.31	0	4	-1.304563492
205	15	239.67	3.48	0	3	-1.567460317
205	16	263.43	3.24	0	3	-1.547619048
205	17	339.41	2.57	0	4	-1.23015873
205	18	319.26	1.85	0	5	-0.426587302
205	19	333.03	1.78	0	5	0.486111111
205	20	25.69	3.35	0	5	0.456349206
205	21	31.6	4.43	0	6	1.711309524
205	22	26.21	4.17	0	6	1.959325397
205	23	26.83	5.23	0	6	1.81547619
206	0	19.67	4.72	0	6	1.636904762
206	1	29.64	6.51	0	6	1.671626984
206	2	31.51	6.55	0	5	1.413690476
206	3	34.64	5.23	0	6	1.984126984
206	4	30.6	5.67	0	6	1.969246032
206	5	31.06	6.74	0	5	1.388888889
206	6	31.57	5.47	0	5	0.560515873
206	7	32.55	5.86	0	4	-0.739087302
206	8	29.34	3.25	0	4	-1.116071429
206	9	359.32	3.35	0	4	-1.205357143
206	10	6.32	3.63	0	4	-1.195436508
206	11	2.15	3.16	0	4	-1.279761905
206	12	356.43	3.74	0	4	-1.274801587
206	13	28.07	2.94	0	4	-1.220238095
206	14	94.45	2.85	0	4	-1.140873016
206	15	136.03	2.29	0	4	-1.116071429
206	16	111.7	1.83	0	4	-1.041666667
206	17	81.74	2.06	0	4	-0.689484127
206	18	80.83	2.13	0	4	-0.659722222
206	19	117.42	1.53	0	5	-0.431547619
206	20	27.2	2.25	0	5	0.03968254
206	21	16.64	2.07	0	5	0.138888889
206	22	31.92	2.19	0	5	-0.25297619
206	23	37.93	2.85	0	5	-0.441468254
207	0	29.43	3.89	0	5	-0.362103175
207	1	21.26	4.61	0	5	-0.27281746

207	2	36.16	3.48	0	5	-0.228174603
207	3	31.83	2.78	0	5	-0.158730159
207	4	27.59	3.8	0	5	-0.277777778
207	5	64.82	1.81	0	4	-0.639880952
207	6	77.14	1.87	0	4	-1.031746032
207	7	73.2	1.99	0	4	-1.111111111
207	8	83.59	2.31	0	4	-1.393849206
207	9	83.44	2.64	0	4	-1.294642857
207	10	69.81	3.33	0	4	-1.28968254
207	11	143.12	2.53	0	4	-1.448412698
207	12	49.53	3	0	4	-1.364087302
207	13	172.71	3.94	0	4	-1.423611111
207	14	183.12	4.84	0	4	-1.418650794
207	15	182.19	4.21	0	4	-1.284722222
207	16	173.87	4.16	0	4	-1.319444444
207	17	167.13	4.28	0	4	-1.324404762
207	18	127.91	2.72	0	4	-1.125992063
207	19	145.37	2.76	0	4	-1.101190476
207	20	107.28	2.26	0	4	-0.89781746
207	21	111.08	2.44	0	4	-0.89781746
207	22	119.44	2.38	0	4	-1.026785714
207	23	65.52	2.29	0	4	-0.982142857
208	0	32.05	3.37	0	4	-1.056547619
208	1	36.48	3.64	0	4	-1.091269841
208	2	37.39	4.94	0	4	-1.116071429
208	3	30.32	4.84	0	4	-1.046626984
208	4	32.3	6.11	0	4	-1.051587302
208	5	32.7	5.82	0	4	-1.066468254
208	6	30.62	6.3	0	4	-1.130952381
208	7	20.99	5.89	0	4	-1.121031746
208	8	19.87	5.92	0.02	4	-1.026785714
208	9	23.68	5.05	0.05	4	-0.942460317
208	10	28.31	4.64	0.03	4	-0.952380952
208	11	21.82	4.74	0	4	-1.001984127
208	12	26.74	5.42	0	4	-0.962301587
208	13	20.96	6.01	0.02	4	-1.001984127
208	14	24.05	4.83	0.01	4	-0.947420635
208	15	25.91	4.52	0.09	4	-0.942460317
208	16	13.5	4.22	0.37	4	-0.838293651
208	17	20.09	3.62	0.07	4	-0.858134921
208	18	13.43	3.7	0.06	4	-0.823412698
208	19	6.13	2.27	0.04	4	-0.724206349
208	20	18.13	1.85	0.01	4	-0.66468254
208	21	19.91	4.39	0.01	4	-0.753968254
208	22	20.06	5.25	0	4	-0.798611111
208	23	24.41	3.53	0.09	4	-0.823412698
209	0	20.5	6.07	0.36	4	-0.853174603
209	1	26.18	7.19	0.04	4	-0.863095238
209	2	25.2	6.23	0.02	4	-0.87797619

209	3	27.18	4.91	0.05	4	-0.813492063
209	4	22.98	4.66	0.07	4	-0.793650794
209	5	28.7	5.62	0.09	4	-0.848214286
209	6	22.77	5.22	0.04	4	-0.887896825
209	7	21.04	5.24	0.05	4	-0.9375
209	8	25.38	5.87	0	4	-0.962301587
209	9	30.04	5.55	0	4	-0.987103175
209	10	26.72	4.32	0.01	4	-0.95734127
209	11	36.29	3.72	0	4	-0.907738095
209	12	33.91	4.26	0	4	-0.992063492
209	13	30.2	5.15	0	4	-1.006944444
209	14	30.46	4.69	0	4	-1.026785714
209	15	37.89	3.89	0	4	-0.97718254
209	16	62.4	2.27	0	4	-0.962301587
209	17	71.83	1.91	0	4	-0.932539683
209	18	88.64	1.67	0.01	4	-0.763888889
209	19	56.31	2.64	0.01	4	-0.793650794
209	20	44.16	2.95	0	4	-0.768849206
209	21	34.02	2.84	0	4	-0.833333333
209	22	43.47	3.86	0	4	-0.838293651
209	23	30.27	4	0	4	-0.833333333
210	0	30.34	4.03	0	4	-0.833333333
210	1	30.08	3.58	0	4	-0.813492063
210	2	38.71	2.8	0	4	-0.714285714
210	3	24.65	3.01	0	4	-0.744047619
210	4	51.17	2.27	0	4	-0.639880952
210	5	36.51	2.54	0	4	-0.749007937
210	6	16.14	3.5	0	4	-1.051587302
210	7	11.94	3.54	0	4	-1.135912698
210	8	32.01	3.34	0	4	-1.19047619
210	9	25.73	3.13	0	4	-1.205357143
210	10	29.52	4.05	0	4	-1.245039683
210	11	26.9	2.79	0	4	-1.170634921
210	12	16.3	2.9	0	4	-1.235119048
210	13	29.3	3.27	0	4	-1.225198413
210	14	177.66	3.43	0	4	-1.374007937
210	15	156.12	3.55	0	3	-1.597222222
210	16	171.79	4.49	0	4	-1.398809524
210	17	144.65	3.49	0	4	-1.23015873
210	18	172.04	3.28	0	4	-1.016865079
210	19	136.4	2.07	0	4	-0.833333333
210	20	165.87	1.78	0	4	-0.724206349
210	21	135.51	1.55	0	4	-0.500992063
210	22	133.94	1.55	0	5	-0.158730159
210	23	128.95	1.53	0	5	0.034722222
211	0	144.63	1.3	0	5	-0.084325397
211	1	167.94	1.9	0	5	-0.317460317
211	2	186.62	4.18	0	4	-0.773809524
211	3	185.71	2.97	0	4	-0.709325397

211	4	196.79	2.11	0	4	-0.694444444
211	5	30.4	1.6	0	4	-0.68452381
211	6	202.64	1.66	0	4	-0.863095238
211	7	186.11	1.9	0	4	-0.873015873
211	8	187.23	2.98	0	4	-1.155753968
211	9	174.44	3.43	0	4	-1.21031746
211	10	167.97	3.31	0	4	-1.364087302
211	11	191.16	3.53	0	4	-1.245039683
211	12	166.73	3	0	4	-1.215277778
211	13	157.6	2.73	0	4	-1.160714286
211	14	164.96	2.14	0	4	-0.907738095
211	15	169.33	4.53	0	4	-1.413690476
211	16	170.54	3.61	0	4	-1.25
211	17	173.52	4.29	0	4	-1.150793651
211	18	171.42	3.6	0	4	-0.828373016
211	19	167.75	2.63	0	4	-0.749007937
211	20	175.76	3.95	0	4	-0.744047619
211	21	177.78	4.02	0	4	-0.753968254
211	22	180.83	3.19	0	4	-0.768849206
211	23	164.93	2.01	0	4	-0.734126984
212	0	122.18	1.44	0	5	-0.456349206
212	1	129.76	1.6	0	5	-0.243055556
212	2	80.07	1.73	0	5	-0.406746032
212	3	139.82	1.49	0	5	-0.282738095
212	4	112.75	1.19	0	5	-0.173611111
212	5	84.95	1.49	0	5	-0.228174603
212	6	52.18	2.1	0	4	-0.505952381
212	7	77.04	1.49	0	4	-0.709325397
212	8	90.19	1.53	0	4	-0.749007937
212	9	81.15	1.81	0.04	4	-0.68452381
212	10	119.69	1.47	0.17	4	-0.798611111
212	11	143.02	1.37	0.03	4	-0.992063492
212	12	5.57	2.09	0.01	4	-0.962301587
212	13	7.01	2.99	0	4	-1.021825397
212	14	35.27	3.35	0	4	-1.036706349
212	15	60.19	3.28	0	4	-1.056547619
212	16	70.32	2.76	0	4	-1.026785714
212	17	95.71	1.69	0	4	-0.952380952
212	18	63.6	1.42	0	4	-0.927579365
212	19	139.76	1.12	0	4	-0.798611111
212	20	142.32	1.16	0	4	-0.739087302
212	21	63.07	1.48	0	4	-0.753968254
212	22	129.33	1.26	0	4	-0.580357143
212	23	94.94	1.4	0	4	-0.724206349
213	0	122.18	1.66	0	4	-0.783730159
213	1	101.96	1.38	0	4	-0.739087302
213	2	26.52	1.77	0	4	-0.813492063
213	3	39.95	2.43	0	4	-0.858134921
213	4	49.2	2.12	0	4	-0.768849206

213	5	21.6	2.12	0	4	-0.853174603
213	6	22.28	2.53	0	4	-0.947420635
213	7	42.97	2.67	0	4	-1.056547619
213	8	29.9	4.35	0	4	-1.23015873
213	9	38.32	4.37	0	4	-1.319444444
213	10	53.07	4.14	0	4	-1.170634921
213	11	76.73	3.36	0	4	-1.081349206
213	12	131.9	2.56	0	4	-1.026785714
213	13	105.94	2.78	0	4	-0.982142857
213	14	76.62	3.55	0	4	-0.952380952
213	15	74.74	3.49	0	4	-1.021825397
213	16	91.88	3.21	0	4	-1.001984127
213	17	86.18	3.69	0	4	-1.011904762
213	18	99.97	2.92	0	4	-0.952380952
213	19	83.34	2.91	0	4	-0.992063492
213	20	80.37	2.98	0	4	-1.026785714
213	21	142.81	2.14	0	4	-1.006944444
213	22	100.25	2.65	0	4	-0.952380952
213	23	82.69	2.02	0	4	-0.927579365
214	0	49.23	2.39	0	4	-0.843253968
214	1	45.53	3.02	0	4	-0.95734127
214	2	34.61	3.54	0	4	-0.97718254
214	3	30.62	4.66	0	4	-0.952380952
214	4	21.73	3.71	0.03	4	-0.843253968
214	5	26.22	2.64	0	4	-0.808531746
214	6	349.82	2.24	0	4	-0.87797619
214	7	32.51	2.64	0.01	4	-0.863095238
214	8	29.43	3.14	0	4	-1.016865079
214	9	25.68	3.54	0	4	-1.121031746
214	10	57.2	1.77	0	4	-1.155753968
214	11	202.16	3	0	4	-1.180555556
214	12	174.51	2.09	0.01	4	-1.195436508
214	13	194.73	3.12	0	4	-1.170634921
214	14	184.94	2.54	0	4	-1.215277778
214	15	185.2	3.82	0	4	-1.235119048
214	16	170.34	3	0	4	-1.215277778
214	17	190.53	2.83	0	4	-1.076388889
214	18	194.9	1.37	0	4	-0.818452381
214	19	78.73	1.22	0	4	-0.56547619
214	20	103.69	1.05	0	5	-0.481150794
214	21	102.08	1.22	0	4	-0.649801587
214	22	134.5	1.37	0.01	4	-0.530753968
214	23	183.25	2.82	0	4	-0.729166667
215	0	208.12	2.28	0	4	-0.793650794
215	1	164.11	1.8	0	4	-0.734126984
215	2	109.42	1.44	0	4	-0.515873016
215	3	181.19	1.64	0	4	-0.620039683
215	4	189.91	1.58	0	4	-0.600198413
215	5	194.9	2.48	0	4	-0.550595238

215	6	198.78	2.62	0	4	-0.629960317
215	7	196.27	1.95	0	4	-0.818452381
215	8	175.22	2.5	0	4	-1.19047619
215	9	173.15	3.47	0	4	-1.25
215	10	172.97	4.4	0	4	-1.284722222
215	11	178.09	4.51	0	4	-1.393849206
215	12	178.86	4.97	0	4	-1.468253968
215	13	177.53	5.97	0	3	-1.537698413
215	14	174.69	5.12	0	4	-1.378968254
215	15	189.51	8.28	0	4	-1.304563492
215	16	192.91	8.09	0	4	-1.086309524
215	17	192.01	6.44	0	4	-0.873015873
215	18	192.24	3.57	0	5	-0.386904762
215	19	225.79	2.3	0	5	0.347222222
215	20	162.72	1.07	0	5	0.887896825
215	21	178.65	2.58	0	5	0.932539683
215	22	173.05	2.73	0	5	1.086309524
215	23	181.02	3.31	0	5	0.089285714
216	0	177.08	3.93	0	5	-0.29265873
216	1	179.82	4.41	0	5	-0.441468254
216	2	178.61	3.55	0.01	5	-0.178571429
216	3	181.95	3.95	0.08	5	-0.277777778
216	4	175.62	2.04	0	5	-0.124007937
216	5	198	4	0	5	-0.357142857
216	6	202.59	3.75	0	5	-0.401785714
216	7	191.75	3.86	0	4	-0.763888889
216	8	187.06	5.1	0	4	-1.026785714
216	9	187.61	5.24	0	4	-1.155753968
216	10	181.58	5.04	0	4	-1.319444444
216	11	167.11	3.41	0	4	-1.240079365
216	12	177.28	4.79	0	4	-1.160714286
216	13	178.07	6.58	0	4	-1.279761905
216	14	184.32	8.16	0	4	-1.165674603
216	15	185.11	6.37	0	4	-0.788690476
216	16	189.31	6.2	0	4	-0.788690476
216	17	194.45	4.7	0	4	-0.639880952
216	18	61.04	3.53	0.27	5	-0.25297619
216	19	67.09	1.97	0.06	4	-0.505952381
216	20	168.29	2.5	0	4	-0.505952381
216	21	208.12	3.27	0	4	-0.570436508
216	22	188.48	2.65	0	4	-0.60515873
216	23	188.9	3.73	0	4	-0.58531746
217	0	187.02	3.65	0	4	-0.699404762
217	1	193.83	2.05	0	4	-0.60515873
217	2	169.53	1.1	0	5	-0.431547619
217	3	280.37	2.14	0	5	-0.381944444
217	4	24.79	3.58	0	4	-0.649801587
217	5	12.34	5.82	0	4	-0.882936508
217	6	5.41	6.39	0	4	-0.922619048

217	7	12.14	5.34	0	4	-1.066468254
217	8	3.12	4.82	0	4	-1.25
217	9	5.06	4.8	0	4	-1.359126984
217	10	21.35	5.85	0	4	-1.359126984
217	11	12.99	6.41	0	3	-1.552579365
217	12	13.86	6.13	0	4	-1.468253968
217	13	29.19	6.11	0	4	-1.478174603
217	14	36	4.55	0	4	-1.393849206
217	15	357.44	2.38	0	4	-1.299603175
217	16	317.06	2.18	0	4	-1.170634921
217	17	228.97	2.59	0	4	-0.873015873
217	18	306.4	1.68	0	5	-0.128968254
217	19	325.63	2.3	0	5	-0.183531746
217	20	18.3	4.53	0	4	-0.773809524
217	21	20.11	3.99	0	5	-0.446428571
217	22	27.21	5.41	0	5	0.248015873
217	23	26.92	5.05	0	5	0.257936508
218	0	10.9	6.53	0	4	-0.843253968
218	1	9.7	6.54	0	4	-0.922619048
218	2	26.1	5.52	0	4	-0.848214286
218	3	25.78	5.5	0	4	-0.803571429
218	4	19.12	4.86	0	4	-0.714285714
218	5	9.45	4.14	0	4	-0.783730159
218	6	12.53	5.09	0	4	-1.036706349
218	7	5.41	6.89	0	4	-1.046626984
218	8	6.86	8.11	0	4	-1.284722222
218	9	4.26	7.65	0	4	-1.473214286
218	10	0.84	6.65	0	3	-1.54265873
218	11	356.66	5.49	0	3	-1.636904762
218	12	1.75	5.23	0	3	-1.552579365
218	13	357.45	4.98	0	3	-1.58234127
218	14	5.09	5.06	0	4	-1.443452381
218	15	18.7	3.81	0	4	-1.408730159
218	16	339.79	2.41	0	4	-0.962301587
218	17	284.43	2.07	0	4	-1.046626984
218	18	256.97	1.75	0	5	0.203373016
218	19	6.24	1.85	0	5	0.987103175
218	20	22.37	2.91	0	5	1.195436508
218	21	19.53	3.76	0	6	1.607142857
218	22	22.13	2.97	0	6	1.52281746
218	23	30.44	2.61	0	6	2.043650794
219	0	31.68	4.1	0	6	2.14781746
219	1	30.1	3.82	0	6	1.666666667
219	2	37.58	2.16	0	5	0.709325397
219	3	25.54	3.09	0	5	1.051587302
219	4	29.81	3.39	0	6	1.617063492
219	5	28.71	3.35	0	6	1.612103175
219	6	24.84	3.93	0	5	0.327380952
219	7	48.9	2.44	0	5	-0.416666667

219	8	132.47	2.09	0	4	-0.987103175
219	9	189.99	3.28	0	4	-1.145833333
219	10	184.87	3.35	0	4	-1.215277778
219	11	184.73	5.84	0	4	-0.679563492
219	12	188.49	5.48	0	4	-0.525793651
219	13	182.68	5.95	0	4	-0.882936508
219	14	181.84	8.29	0	4	-0.694444444
219	15	173.64	7.72	0	4	-0.714285714
219	16	174.94	7.95	0	4	-0.734126984
219	17	177.12	7.65	0.01	5	-0.327380952
219	18	189.02	6.49	0	4	-0.674603175
219	19	191.38	5.07	0	4	-0.709325397
219	20	193.9	5.21	0	4	-0.793650794
219	21	197.43	3.95	0	4	-0.773809524
219	22	186.72	4.87	0	4	-0.739087302
219	23	195.59	3.19	0.13	4	-0.590277778
220	0	179.95	2.4	0	5	-0.456349206
220	1	170.06	3.38	0	5	-0.471230159
220	2	179.9	3.46	0	4	-0.56547619
220	3	187.34	4.37	0	4	-0.60515873
220	4	177.19	3.56	0	5	-0.466269841
220	5	174.2	2.47	0	5	-0.406746032
220	6	180.39	4.88	0	4	-0.64484127
220	7	179.81	5.87	0	4	-0.798611111
220	8	186.94	7.58	0	4	-1.121031746
220	9	205.13	7.67	0	4	-1.175595238
220	10	222.67	6.1	0	4	-1.195436508
220	11	233.43	5.54	0	4	-1.006944444
220	12	235.49	5.31	0	4	-1.284722222
220	13	218.93	6	0	4	-1.314484127
220	14	213.94	5.53	0	4	-1.041666667
220	15	206.87	6.45	0	4	-1.106150794
220	16	226.21	4.86	0	4	-1.076388889
220	17	227.29	4.12	0	4	-0.892857143
220	18	202.94	3.14	0	5	-0.347222222
220	19	195.28	3.59	0	5	-0.004960317
220	20	191.22	4.31	0	5	-0.03968254
220	21	186.65	3.29	0	5	0.342261905
220	22	170.22	2.58	0	5	0.99702381
220	23	153.02	2.18	0	5	0.892857143
221	0	210.15	1.3	0	5	0.654761905
221	1	137.11	1.28	0	5	1.076388889
221	2	155.25	2.38	0	5	0.570436508
221	3	137.71	1.75	0	5	0.912698413
221	4	166.19	2.48	0	5	0.972222222
221	5	114.18	1.93	0	5	0.887896825
221	6	236.04	3.17	0	5	-0.357142857
221	7	259.5	4.34	0	4	-1.051587302
221	8	256.27	3.51	0	4	-1.483134921

221	9	290.95	3.6	0	4	-1.403769841
221	10	349.2	4.39	0	4	-1.483134921
221	11	258.17	4.46	0	3	-1.666666667
221	12	265.66	4.69	0	3	-1.572420635
221	13	252.14	5.6	0	3	-1.552579365
221	14	247.53	5.29	0	4	-1.488095238
221	15	251.53	3.98	0	3	-1.54265873
221	16	247.79	4.05	0	4	-1.354166667
221	17	251.9	3.05	0	4	-0.848214286
221	18	230.52	2.26	0	5	0.575396825
221	19	227.34	2.97	0	5	1.091269841
221	20	260.3	1.87	0	5	0.342261905
221	21	224.73	1.58	0	5	0.634920635
221	22	236.5	1.64	0	5	1.21031746
221	23	4.67	1.77	0	5	1.458333333
222	0	359.86	1.47	0	5	1.051587302
222	1	39.45	1.87	0	5	1.195436508
222	2	13.38	1.49	0	5	1.284722222
222	3	32.5	1.85	0	5	1.180555556
222	4	20.61	1.39	0	5	0.848214286
222	5	183.75	5.48	0	5	0.357142857
222	6	188.01	5.89	0.02	5	-0.03968254
222	7	168.83	3.08	0	5	-0.124007937
222	8	162.89	3.03	0	4	-0.788690476
222	9	166.86	3.81	0	4	-1.240079365
222	10	174.52	4.91	0	3	-1.517857143
222	11	165.7	4.37	0	4	-1.339285714
222	12	188.87	2.84	0	4	-1.140873016
222	13	202.7	4.68	0	4	-1.116071429
222	14	193.93	7.05	0	4	-1.106150794
222	15	197.76	5.83	0	4	-1.185515873
222	16	201.14	4	0	4	-1.091269841
222	17	191.29	4.42	0	4	-0.778769841
222	18	190.9	4.46	0	5	-0.431547619
222	19	187.43	3.89	0	5	-0.099206349
222	20	165.29	2.29	0	5	0.277777778
222	21	193.15	1.78	0	5	0.213293651
222	22	217.06	1.94	0	5	0.342261905
222	23	184.39	1.98	0	5	0.545634921
223	0	296.29	3.84	0.07	5	-0.342261905
223	1	21.68	4.64	0	4	-0.570436508
223	2	10.21	6.54	0	4	-0.570436508
223	3	54.66	5.97	0	4	-0.545634921
223	4	63.02	2.54	0	4	-0.580357143
223	5	41.94	2.26	0	4	-0.66468254
223	6	0.66	2.6	0	4	-0.97718254
223	7	354.15	3.35	0	4	-1.279761905
223	8	2.23	3.88	0	4	-1.319444444
223	9	3.2	4.07	0	4	-1.378968254

223	10	2.47	4.05	0	4	-1.453373016
223	11	8.11	3.26	0	4	-1.274801587
223	12	10.2	3.47	0	4	-1.314484127
223	13	233.47	3.46	0	4	-1.418650794
223	14	293.23	3.42	0	4	-1.443452381
223	15	280.31	3.43	0	3	-1.532738095
223	16	248.83	3.02	0	3	-1.54265873
223	17	211.79	3.06	0	4	-1.170634921
223	18	234.39	1.62	0	5	-0.391865079
223	19	284.31	1.62	0	5	0.580357143
223	20	25.43	2.67	0	5	1.001984127
223	21	22.17	5.21	0	5	1.076388889
223	22	28.24	3.15	0	5	0.729166667
223	23	27.34	5.78	0	5	1.106150794
224	0	29.86	4.97	0	5	1.145833333
224	1	29.79	5.84	0	5	1.071428571
224	2	27.54	4.99	0	5	0.669642857
224	3	36.52	4.99	0	5	0.853174603
224	4	40.23	4.21	0	5	0.907738095
224	5	31.47	5.63	0	5	0.362103175
224	6	44.11	3.56	0	5	-0.163690476
224	7	44.9	2.43	0	4	-0.992063492
224	8	24.45	3.58	0	4	-1.200396825
224	9	295.9	2.62	0	4	-1.478174603
224	10	234.64	3.8	0	4	-1.30952381
224	11	174.65	2.67	0	4	-1.121031746
224	12	72.35	6.14	0	4	-0.982142857
224	13	19.43	9.58	0.03	4	-0.525793651
224	14	21.16	5.41	0	5	-0.277777778
224	15	9.4	3.04	0.03	5	-0.25297619
224	16	278.87	2.51	0.14	5	-0.094246032
224	17	171.13	2.42	0.01	5	-0.322420635
224	18	232.88	2.56	0	4	-0.669642857
224	19	19.18	2.4	0	5	-0.486111111
224	20	11.05	5.04	0	4	-0.858134921
224	21	25.97	6.54	0	4	-0.828373016
224	22	17.9	5.73	0	4	-0.828373016
224	23	13.73	6.22	0	4	-0.912698413
225	0	25.6	5.81	0	4	-0.89781746
225	1	27.71	5.6	0	4	-0.952380952
225	2	30.96	5.39	0	4	-0.942460317
225	3	17.11	4.29	0	4	-0.992063492
225	4	23.3	4.99	0	4	-0.932539683
225	5	18.51	4.46	0	4	-0.952380952
225	6	19	6.68	0.53	4	-0.674603175
225	7	19.52	5.92	0.04	4	-0.853174603
225	8	25.22	2.51	0	4	-0.863095238
225	9	27.66	4.56	0	4	-0.962301587
225	10	24.19	5.01	0	4	-1.021825397

225	11	27.56	5.34	0	4	-0.858134921
225	12	22.05	5.11	0	4	-0.858134921
225	13	20.62	5.18	0	4	-0.89781746
225	14	14	4.42	0	4	-0.97718254
225	15	10.5	3.75	0	4	-0.982142857
225	16	16.96	4.19	0	4	-0.89781746
225	17	25.09	3.89	0	4	-0.808531746
225	18	29.26	4.73	0	4	-0.714285714
225	19	25.99	5.08	0	4	-0.679563492
225	20	20.95	5.2	0	4	-0.87797619
225	21	86.19	2.36	0	4	-0.763888889
225	22	29.81	4.15	0	4	-0.863095238
225	23	50.53	3.46	0	4	-0.773809524
226	0	30.48	3.72	0	4	-0.739087302
226	1	30.61	5.2	0	4	-0.64484127
226	2	23.75	6.68	0	4	-0.912698413
226	3	20.83	7.45	0	4	-1.056547619
226	4	19.38	7.37	0	4	-1.061507937
226	5	21.73	7.26	0	4	-1.016865079
226	6	18.79	7.43	0	4	-1.121031746
226	7	19.22	7.23	0	4	-1.155753968
226	8	18.18	7.38	0	4	-1.200396825
226	9	19.24	7.76	0	4	-1.254960317
226	10	16.44	6.17	0	4	-1.264880952
226	11	25.95	6.75	0	4	-1.215277778
226	12	30.4	8.15	0	4	-1.240079365
226	13	27.46	7.7	0	4	-1.374007937
226	14	38.1	7.66	0	4	-1.066468254
226	15	33.9	7.7	0	4	-1.036706349
226	16	55.56	5.56	0	4	-0.962301587
226	17	61.86	3.1	0	4	-0.828373016
226	18	56.16	3.39	0	5	-0.476190476
226	19	26.55	7.12	0	4	-0.823412698
226	20	20.21	5.93	0	4	-0.863095238
226	21	23.09	4.69	0	4	-0.912698413
226	22	21.34	4.45	0	4	-0.932539683
226	23	23.61	5.27	0	4	-0.972222222
227	0	16.88	5.86	0	4	-0.99702381
227	1	10.21	6.99	0	4	-0.972222222
227	2	17.39	8.25	0	4	-0.982142857
227	3	18.75	7.85	0	4	-1.006944444
227	4	16.3	7.74	0	4	-1.086309524
227	5	18.55	8.08	0	4	-1.066468254
227	6	14.42	7.62	0	4	-1.170634921
227	7	16.62	8.96	0	4	-1.121031746
227	8	14.96	9.82	0	4	-1.215277778
227	9	17.12	9.53	0	4	-1.349206349
227	10	15.39	8.36	0	4	-1.334325397
227	11	10.34	7.38	0	4	-1.125992063

227	12	10.15	7.95	0	4	-1.125992063
227	13	34.12	5.74	0	4	-0.753968254
227	14	136.9	4.8	0.24	5	-0.163690476
227	15	16.03	9.95	0.05	4	-0.858134921
227	16	16.45	9.85	0	4	-0.763888889
227	17	14.18	10.82	0	4	-0.828373016
227	18	21.35	8.18	0	4	-0.858134921
227	19	17.98	9.36	0	4	-0.942460317
227	20	12.83	8.5	0	4	-0.987103175
227	21	11.88	7.33	0	4	-1.021825397
227	22	14.44	8.98	0	4	-1.051587302
227	23	15.55	6.69	0	4	-1.066468254
228	0	13.79	7.4	0	4	-1.056547619
228	1	11.13	7.66	0	4	-1.091269841
228	2	10.68	6.28	0.01	4	-1.235119048
228	3	13.94	6.84	0	4	-0.967261905
228	4	25.4	6.31	0	4	-0.823412698
228	5	15.79	5.84	0	4	-0.848214286
228	6	17.4	5.21	0	4	-0.97718254
228	7	3.94	5.76	0	4	-1.274801587
228	8	7.21	5.56	0	4	-1.398809524
228	9	16.19	6.88	0	4	-1.294642857
228	10	1.87	6.12	0	3	-1.636904762
228	11	1.98	4.78	0	3	-1.587301587
228	12	0.07	4.93	0	3	-1.52281746
228	13	3.57	5.57	0	3	-1.552579365
228	14	352.58	4.33	0	3	-1.517857143
228	15	359.04	4.32	0	4	-1.498015873
228	16	5.37	3.86	0	4	-1.284722222
228	17	357.51	2.62	0	4	-1.066468254
228	18	183.84	1.41	0	5	-0.094246032
228	19	226.98	1.36	0	5	1.101190476
228	20	41.76	1.93	0	5	1.413690476
228	21	17.29	1.91	0	5	1.175595238
228	22	23.25	1.69	0	5	1.205357143
228	23	15.24	1.14	0	5	1.130952381
229	0	17.65	1	0	5	0.763888889
229	1	251.31	1.22	0	5	0.942460317
229	2	198.04	2.67	0	5	0.659722222
229	3	182.51	4.34	0	5	0.004960317
229	4	193.2	4.43	0.31	5	-0.386904762
229	5	179.1	4.02	0.43	5	-0.248015873
229	6	217.47	1.21	0	5	-0.416666667
229	7	204.14	1.94	0	4	-0.570436508
229	8	182.93	4.13	0	4	-0.962301587
229	9	234.36	3.89	0	4	-1.016865079
229	10	245.32	4.65	0	4	-1.383928571
229	11	273.37	5.94	0	3	-1.577380952
229	12	330.12	6	0	3	-1.696428571

229	13	295.04	5.61	0	2	-1.716269841
229	14	329.8	5.8	0	4	-1.493055556
229	15	347.27	6	0	4	-1.408730159
229	16	311.37	4.96	0	4	-1.383928571
229	17	302.27	4.37	0	4	-1.130952381
229	18	310.02	3.57	0	4	-0.744047619
229	19	288.03	3.54	0	5	-0.491071429
229	20	340.21	4.87	0	4	-0.763888889
229	21	347.04	4.03	0	4	-0.749007937
229	22	292.64	3.08	0	4	-0.540674603
229	23	279.31	3.31	0	4	-0.555555556
230	0	289.05	4.8	0	4	-0.942460317
230	1	267.42	3.74	0	4	-0.967261905
230	2	265.47	4.79	0	4	-0.882936508
230	3	298.68	4.58	0	4	-0.972222222
230	4	354.61	3.54	0	4	-0.858134921
230	5	2.49	4.31	0	4	-0.858134921
230	6	266.67	3.94	0	4	-1.19047619
230	7	276.18	4.24	0	4	-1.438492063
230	8	344.1	5.01	0	4	-1.483134921
230	9	337.48	5.24	0	2	-1.701388889
230	10	355.32	5.3	0	2	-1.746031746
230	11	296.97	4.93	0	1	-1.919642857
230	12	309.87	4.34	0	1	-2.093253968
230	13	320.69	4.22	0	1	-1.979166667
230	14	308.24	3.74	0	2	-1.721230159
230	15	271.08	3.8	0	3	-1.617063492
230	16	248.12	3.47	0	4	-1.344246032
230	17	248.63	2.48	0	4	-0.758928571
230	18	232.31	2.77	0	5	-0.262896825
230	19	227.82	1.95	0	5	0.282738095
230	20	86.96	2.12	0	5	-0.337301587
230	21	41.5	2.95	0	5	0.322420635
230	22	42.3	2.8	0	5	0.233134921
230	23	23.91	5.58	0	5	0.391865079
231	0	28.27	5.66	0	5	-0.089285714
231	1	33.54	3.95	0	5	0.024801587
231	2	36.39	3.6	0	5	0.257936508
231	3	29.92	5.86	0	5	0.203373016
231	4	28.74	5.47	0	5	-0.223214286
231	5	33.11	4.73	0	5	-0.446428571
231	6	29	4.69	0	4	-0.902777778
231	7	21.44	4.11	0	4	-1.081349206
231	8	20.44	3.52	0	4	-1.091269841
231	9	45.18	2.06	0	4	-1.121031746
231	10	142.63	1.64	0	4	-1.200396825
231	11	171.09	2.2	0	4	-1.200396825
231	12	204.28	1.42	0	4	-1.066468254
231	13	123.98	2.02	0	4	-0.932539683

231	14	168.34	2.3	0	4	-0.639880952
231	15	22.05	2.41	0	4	-1.011904762
231	16	14.41	2.61	0	4	-1.026785714
231	17	10.14	3.7	0	4	-1.026785714
231	18	8.5	3.74	0	4	-0.99702381
231	19	5.51	4.18	0	4	-1.031746032
231	20	9.44	3.92	0	4	-1.016865079
231	21	11.29	3.83	0	4	-0.942460317
231	22	3.3	3.03	0	4	-0.753968254
231	23	15.21	3.78	0	4	-0.694444444
232	0	35.38	2.27	0	5	-0.233134921
232	1	13.3	3.95	0	4	-0.505952381
232	2	59.92	2.15	0	5	0.138888889
232	3	14.28	4.5	0	4	-0.689484127
232	4	31.08	3.65	0	5	-0.277777778
232	5	138.01	2.59	0	5	0.724206349
232	6	21.07	4.09	0	4	-0.629960317
232	7	4.33	5.6	0	4	-1.121031746
232	8	359.68	5.47	0	4	-1.284722222
232	9	4.51	7.37	0	4	-1.488095238
232	10	0.55	5.34	0	3	-1.612103175
232	11	7.78	5.61	0	3	-1.641865079
232	12	356.5	4.45	0	3	-1.54265873
232	13	5.42	6.02	0	3	-1.547619048
232	14	19.44	4.42	0	4	-1.299603175
232	15	7.95	4.22	0	4	-1.19047619
232	16	359.72	4.12	0	4	-1.155753968
232	17	346.05	3.37	0	4	-1.165674603
232	18	2.29	3.33	0	4	-0.674603175
232	19	14.56	3.58	0	5	-0.178571429
232	20	29.14	4.68	0	5	0.97718254
232	21	32.31	4.92	0	5	1.264880952
232	22	40.1	3.47	0	5	0.367063492
232	23	17.88	3.33	0	4	-0.595238095
233	0	5.79	5.08	0	4	-0.778769841
233	1	337.46	4.95	0	4	-0.902777778
233	2	348.48	5.67	0	4	-0.853174603
233	3	5.84	5.1	0	4	-0.620039683
233	4	12	5.87	0	4	-0.853174603
233	5	5.04	4.31	0	4	-0.719246032
233	6	9.27	6.01	0	4	-0.813492063
233	7	11.89	4.95	0	4	-1.155753968
233	8	24.83	5.42	0	4	-1.314484127
233	9	8.02	6.98	0	3	-1.557539683
233	10	7.38	6.41	0	3	-1.636904762
233	11	351.38	5.03	0	2	-1.795634921
233	12	9.3	6.27	0	3	-1.671626984
233	13	15	5.98	0	3	-1.527777778
233	14	11.24	5.91	0	3	-1.54265873

233	15	20	6.17	0	4	-1.443452381
233	16	22.01	5.88	0	4	-1.428571429
233	17	20.93	5.45	0	4	-1.170634921
233	18	18.27	5.41	0	4	-0.868055556
233	19	27.43	4.98	0	4	-0.600198413
233	20	22.87	4.04	0	5	0.004960317
233	21	26.81	4.49	0	5	0.808531746
233	22	19.97	4.94	0	5	1.344246032
233	23	28.91	5.9	0	5	1.21031746
234	0	34.36	6.4	0	6	1.656746032
234	1	51.06	3.79	0	6	1.5625
234	2	37.14	5.73	0	5	0.848214286
234	3	45.78	5.04	0	5	0.138888889
234	4	79.64	3.59	0	5	0.178571429
234	5	47.58	3.44	0	5	0.163690476
234	6	41.75	5.62	0	5	0.064484127
234	7	25.19	5.79	0	4	-0.97718254
234	8	8.85	5.99	0	4	-1.423611111
234	9	5.42	5.99	0	3	-1.5625
234	10	3.63	6.81	0	3	-1.651785714
234	11	3.32	5.7	0	3	-1.671626984
234	12	2.03	6.85	0	3	-1.666666667
234	13	9.74	7.4	0	3	-1.572420635
234	14	25.41	5.15	0	4	-1.388888889
234	15	15.93	5.15	0	4	-1.398809524
234	16	4.73	3.8	0	4	-1.274801587
234	17	15.79	3.68	0	4	-1.121031746
234	18	357.06	2.08	0	5	-0.223214286
234	19	23.41	3.68	0	5	1.111111111
234	20	13.26	4.32	0	6	1.612103175
234	21	18.16	3.93	0	6	1.944444444
234	22	29.52	3.53	0	6	2.450396825
234	23	26.82	4.72	0	6	2.197420635
235	0	23.48	4.08	0	6	2.108134921
235	1	30.92	4.65	0	6	2.192460317
235	2	32.75	3.97	0	6	1.557539683
235	3	35.44	4.2	0	5	1.150793651
235	4	40.37	3.36	0	5	0.709325397
235	5	49.56	3.25	0	5	0.629960317
235	6	37.9	3.81	0	5	0.163690476
235	7	39.49	2.35	0	4	-0.833333333
235	8	8.66	1.76	0	4	-0.97718254
235	9	304.17	2.57	0	4	-1.235119048
235	10	191.55	3.7	0	4	-1.339285714
235	11	189.57	4	0	4	-1.483134921
235	12	179.57	3.56	0	3	-1.661706349
235	13	162.85	3.85	0	2	-1.795634921
235	14	175.34	4.56	0	3	-1.54265873
235	15	180.81	4.26	0	4	-1.354166667

235	16	197.16	4.72	0	4	-1.279761905
235	17	193.3	3.17	0	4	-0.679563492
235	18	206.26	2.36	0	5	0.297619048
235	19	177.6	2.17	0	5	0.907738095
235	20	189.88	3.06	0	5	0.64484127
235	21	194.3	3.79	0	5	-0.119047619
235	22	192.1	2.61	0	5	0.133928571
235	23	209.58	1.81	0	5	0.327380952
236	0	216.26	2.58	0	5	0.104166667
236	1	228.83	2.01	0	5	0.27281746
236	2	295.51	1.69	0	5	0.322420635
236	3	241.05	1.82	0	5	-0.01984127
236	4	225.2	2.17	0	5	-0.074404762
236	5	219.48	2.67	0	5	-0.054563492
236	6	207.31	3.46	0	5	-0.486111111
236	7	196.77	4.27	0	4	-1.021825397
236	8	179.47	5.92	0	4	-1.299603175
236	9	176.42	6.05	0	4	-1.23015873
236	10	181.37	8.69	0	4	-1.116071429
236	11	179.43	9.79	0	4	-0.942460317
236	12	183.5	9.37	0	4	-0.56547619
236	13	183.02	7.53	0.02	5	-0.168650794
236	14	186.95	6.36	0.01	5	-0.436507937
236	15	182.48	7.39	0.07	4	-0.625
236	16	186.26	7.72	0.02	4	-0.540674603
236	17	189.93	6.75	0	4	-0.60515873
236	18	188.86	5.44	0.01	4	-0.639880952
236	19	169.04	4.22	0	5	-0.054563492
236	20	160.58	2.29	0	5	0.33234127
236	21	193.46	2.08	0	5	0.054563492
236	22	119.82	1.26	0	5	-0.193452381
236	23	114.59	1.16	0	5	-0.466269841
237	0	189.07	2.18	0	5	-0.277777778
237	1	187.54	2.19	0	5	-0.089285714
237	2	118.56	1.59	0	5	0.347222222
237	3	161.33	1.47	0	5	0.153769841
237	4	202.83	1.63	0	5	0.257936508
237	5	234.11	1.25	0	5	-0.302579365
237	6	36.85	1.64	0	5	-0.307539683
237	7	56.72	3.09	0	5	-0.248015873
237	8	23.59	5.83	0	4	-0.902777778
237	9	257.54	3.52	0	4	-1.081349206
237	10	183.28	4.08	0	4	-1.314484127
237	11	189.78	3.13	0	4	-1.374007937
237	12	198.72	3.78	0	4	-1.150793651
237	13	248.5	2.73	0	4	-1.364087302
237	14	347.07	3.22	0	4	-1.125992063
237	15	358.31	3.53	0	4	-1.165674603
237	16	356.67	4.27	0	4	-1.031746032

237	17	349.09	2.41	0	4	-0.649801587
237	18	326.94	2.96	0	5	0.277777778
237	19	13.79	3.14	0	4	-0.580357143
237	20	42.95	2.06	0	5	0.228174603
237	21	27.6	3.51	0	5	0.426587302
237	22	27	4.46	0	5	0.466269841
237	23	35.63	5.33	0	5	0.441468254
238	0	38.15	6.01	0	5	0.952380952
238	1	38.16	5.77	0	5	1.145833333
238	2	46.88	4.52	0	5	0.992063492
238	3	29.84	5.03	0	5	0.545634921
238	4	27.45	4.88	0	5	-0.153769841
238	5	22.19	5.76	0	5	-0.441468254
238	6	19.87	6.89	0	4	-0.843253968
238	7	14.74	9.12	0	4	-1.160714286
238	8	9.27	7.62	0	4	-1.443452381
238	9	0.93	6.3	0	3	-1.512896825
238	10	358.61	5.37	0	3	-1.54265873
238	11	358.47	4.87	0	3	-1.54265873
238	12	0.89	4.51	0	3	-1.54265873
238	13	357.4	4.5	0	3	-1.607142857
238	14	349.7	3.92	0	4	-1.498015873
238	15	335.6	3.07	0	4	-1.418650794
238	16	339.69	3.08	0	4	-1.319444444
238	17	358.76	2.08	0	4	-0.749007937
238	18	8.84	1.95	0	5	0.912698413
238	19	20.41	3.77	0	6	2.123015873
238	20	20.95	2.62	0	6	2.703373016
238	21	23.15	3.68	0	6	1.641865079
238	22	58.23	2.11	0	6	1.750992063
238	23	26.91	3.21	0	6	2.1875
239	0	20.75	3.86	0	6	1.746031746
239	1	25.52	4.35	0	6	1.984126984
239	2	25.85	4.42	0	6	2.232142857
239	3	29.15	4.87	0	6	2.495039683
239	4	37.58	3.66	0	6	1.646825397
239	5	32.75	5.43	0	6	1.527777778
239	6	35.41	3.99	0	5	0.724206349
239	7	34.08	2.93	0	5	-0.367063492
239	8	12.17	1.98	0	4	-1.001984127
239	9	4.42	2.58	0	4	-0.887896825
239	10	304.66	2.96	0	4	-1.235119048
239	11	189.3	3.27	0	4	-1.314484127
239	12	206.53	3.18	0	4	-1.354166667
239	13	196.58	3.78	0	3	-1.617063492
239	14	234.92	3.31	0	3	-1.50297619
239	15	229.76	2.82	0	4	-1.334325397
239	16	174.4	3.15	0	4	-1.215277778
239	17	178.05	2.63	0	4	-0.500992063

239	18	208.07	1.47	0	5	0.694444444
239	19	338.7	1.49	0	5	1.428571429
239	20	2.2	1.98	0	5	0.803571429
239	21	353.43	1.86	0	5	1.245039683
239	22	7.12	1.81	0	6	1.5625
239	23	0.52	1.51	0	6	1.636904762
240	0	357.48	1.51	0	5	1.304563492
240	1	9.5	1.37	0	5	1.175595238
240	2	3	1.7	0	5	0.793650794
240	3	37.08	1.2	0	5	0.823412698
240	4	18.05	1.57	0	5	0.595238095
240	5	42.25	1.34	0	5	0.575396825
240	6	42.02	1.95	0	5	0.223214286
240	7	161.77	1.69	0	4	-0.763888889
240	8	181.38	2.63	0	4	-1.304563492
240	9	183.57	3.49	0	4	-1.314484127
240	10	187.46	4.11	0	4	-1.364087302
240	11	195.26	3.42	0	4	-1.398809524
240	12	168.41	3.91	0	4	-1.488095238
240	13	166.37	3.67	0	3	-1.577380952
240	14	159.21	3.13	0	4	-1.334325397
240	15	173	3.19	0	4	-1.374007937
240	16	141.95	1.59	0	4	-0.863095238
240	17	231.98	1.33	0	4	-0.560515873
240	18	196.41	1.5	0	5	-0.148809524
240	19	160.65	1.47	0	5	-0.218253968
240	20	174.51	2.32	0	5	-0.302579365
240	21	100.68	1.58	0	5	-0.287698413
240	22	19.55	2.12	0	5	0.004960317
240	23	29.53	2.88	0	5	0
241	0	19.39	3.65	0	5	-0.119047619
241	1	28.59	4.46	0	5	0.104166667
241	2	33.82	4.62	0	5	-0.064484127
241	3	33.06	4.63	0	5	-0.362103175
241	4	37.68	4.64	0	4	-0.625
241	5	26.26	4.17	0	4	-0.9375
241	6	30.32	4.15	0	4	-1.066468254
241	7	27.84	4.84	0	4	-1.185515873
241	8	25.4	6.6	0	4	-1.279761905
241	9	40.92	4.24	0	4	-1.160714286
241	10	27.79	3.2	0	4	-1.125992063
241	11	26.2	3.88	0	4	-1.125992063
241	12	32.9	4.47	0	4	-1.299603175
241	13	86.9	2.84	0	4	-1.26984127
241	14	187.31	3.05	0.06	4	-0.803571429
241	15	181.84	2.84	0	4	-0.679563492
241	16	165.33	2	0	4	-0.922619048
241	17	217.31	1.69	0	4	-0.500992063
241	18	24.59	1.22	0	5	-0.069444444

241	19	81.62	1.99	0	4	-0.704365079
241	20	112.21	1.68	0	4	-0.843253968
241	21	135.89	1.98	0	4	-0.744047619
241	22	132.22	1.91	0	4	-0.758928571
241	23	157.68	1.86	0	4	-0.818452381
242	0	137.27	1.72	0	4	-0.744047619
242	1	77.23	2.14	0	4	-0.813492063
242	2	60.67	2.88	0	4	-0.987103175
242	3	79.02	2.19	0	4	-1.006944444
242	4	73.9	2.34	0	4	-0.932539683
242	5	28.43	4.22	0	4	-1.036706349
242	6	33.77	3.74	0	4	-1.116071429
242	7	28.39	4.44	0	4	-1.185515873
242	8	61.41	4.04	0	4	-1.245039683
242	9	101.77	3.42	0	4	-1.443452381
242	10	95	4.53	0	3	-1.52281746
242	11	92.26	4.38	0	3	-1.5625
242	12	70.46	5.22	0	4	-1.493055556
242	13	101.26	4.75	0	2	-1.810515873
242	14	75.57	5	0	3	-1.572420635
242	15	82.01	4.17	0	4	-1.418650794
242	16	102.98	3.73	0	4	-1.135912698
242	17	114.77	2.24	0	4	-0.709325397
242	18	66.5	3.06	0	4	-0.739087302
242	19	55.72	2.76	0	4	-0.783730159
242	20	34.98	2.41	0	4	-0.734126984
242	21	37.88	2.04	0	4	-0.689484127
242	22	20.52	3.18	0	4	-0.744047619
242	23	20.07	3.57	0	4	-0.982142857
243	0	21.53	4.45	0	4	-0.95734127
243	1	31.62	4.17	0	4	-0.902777778
243	2	24.38	5.69	0	4	-1.026785714
243	3	26.78	4.57	0	4	-1.011904762
243	4	21.47	4.63	0	4	-1.056547619
243	5	28.55	4.29	0	4	-1.066468254
243	6	17.48	4.1	0	4	-1.096230159
243	7	17.04	4.01	0	4	-1.160714286
243	8	36.73	3.19	0	4	-1.220238095
243	9	2.11	2.74	0	4	-1.334325397
243	10	0.58	3.56	0	4	-1.28968254
243	11	18.21	3.24	0	4	-1.205357143
243	12	351.17	4.03	0	4	-1.066468254
243	13	358.89	3.28	0	4	-1.378968254
243	14	207.09	4.21	0	4	-1.428571429
243	15	187.9	4.69	0	4	-1.388888889
243	16	169.34	3.28	0	4	-1.374007937
243	17	177.85	2.36	0	4	-0.927579365
243	18	177.34	3.37	0	4	-0.744047619
243	19	170.4	1.6	0	5	-0.496031746

243	20	165.61	1.36	0	4	-0.525793651
243	21	79.77	2.02	0	5	-0.426587302
243	22	104.84	1.73	0	5	-0.297619048
243	23	60.91	2.08	0	5	-0.466269841
244	0	30.78	1.92	0	5	-0.342261905
244	1	43.6	2.26	0	5	-0.436507937
244	2	29.82	3.71	0	4	-0.575396825
244	3	22.99	4.12	0	5	-0.466269841
244	4	15.35	4.2	0	4	-0.595238095
244	5	30.77	3.21	0	4	-0.773809524
244	6	48.21	2.17	0	4	-1.016865079
244	7	104.68	1.62	0	4	-1.135912698
244	8	217.37	1.8	0	4	-1.036706349
244	9	300.78	2.56	0	4	-1.205357143
244	10	358.2	2.8	0	4	-1.116071429
244	11	182.93	4.39	0	3	-1.52281746
244	12	174.83	4.5	0	3	-1.636904762
244	13	192.43	4.5	0	4	-1.463293651
244	14	188.93	5.27	0	3	-1.517857143
244	15	182.46	6.08	0	3	-1.567460317
244	16	173.26	5.85	0	4	-1.453373016
244	17	175.77	3.98	0	4	-1.056547619
244	18	169.46	3.09	0	4	-0.689484127
244	19	171.88	2.42	0	4	-0.629960317
244	20	168.65	3.57	0	4	-0.734126984
244	21	173.05	2.45	0	4	-0.560515873
244	22	139.18	1.26	0	5	-0.198412698
244	23	142.08	1.27	0	5	0.009920635
245	0	166.03	1.39	0	5	-0.282738095
245	1	116.36	1.83	0	5	-0.411706349
245	2	127.16	1.68	0	5	-0.456349206
245	3	65.88	1.55	0	4	-0.600198413
245	4	49.16	2.58	0	4	-0.500992063
245	5	27.13	3.46	0	4	-0.615079365
245	6	199.47	1.97	0	4	-0.744047619
245	7	182.8	3.69	0	4	-1.066468254
245	8	182.02	4.22	0	4	-1.28968254
245	9	168.94	3.06	0	4	-1.259920635
245	10	158.13	2.98	0	4	-1.354166667
245	11	133.23	2.77	0	4	-1.26984127
245	12	178.14	3	0.08	4	-1.026785714
245	13	170.23	2.48	0.02	4	-0.868055556
245	14	160.52	4.23	0	4	-0.892857143
245	15	166.11	4.36	0	4	-0.853174603
245	16	169.34	4.37	0	4	-0.500992063
245	17	177.03	3.9	0	4	-0.515873016
245	18	172.03	2.17	0	5	-0.342261905
245	19	132.03	1.52	0	5	-0.034722222
245	20	30.66	1.67	0	5	-0.317460317

245	21	35.87	1.31	0	5	-0.317460317
245	22	15.39	2.23	0	5	-0.367063492
245	23	85.65	1.46	0	5	-0.228174603
246	0	161.54	1.3	0	5	-0.173611111
246	1	190.86	3.47	0	5	-0.396825397
246	2	193.11	2.51	0	5	-0.401785714
246	3	218.88	1.36	0	5	-0.476190476
246	4	74.8	1.32	0	4	-0.620039683
246	5	170.14	1.3	0	5	-0.471230159
246	6	183.42	1.76	0	4	-0.560515873
246	7	177.58	1.19	0	4	-0.828373016
246	8	179.45	2.8	0	4	-1.150793651
246	9	183.01	2.59	0	4	-1.130952381
246	10	205.52	2.83	0	4	-1.101190476
246	11	186.59	4.5	0.01	4	-1.066468254
246	12	203.87	3.23	0	4	-0.848214286
246	13	171.64	3.9	0	4	-1.433531746
246	14	171.38	2.84	0	4	-1.180555556
246	15	164.25	3.47	0	4	-1.359126984
246	16	110.05	2.31	0	4	-0.838293651
246	17	83.9	2.25	0	4	-0.863095238
246	18	140.26	5.92	0	4	-0.992063492
246	19	110.3	3.94	0	5	0.649801587
246	20	173.43	2.44	0	5	0.843253968
246	21	22.58	6.07	0	5	0.079365079
246	22	39.52	4.1	0	5	-0.257936508
246	23	183.87	2	0	5	-0.089285714
247	0	184.75	1.37	0	5	0.381944444
247	1	43.54	3.3	0	5	-0.029761905
247	2	36.17	4.6	0	5	-0.143849206
247	3	26.06	3.59	0	5	-0.208333333
247	4	27.67	4.66	0	5	-0.411706349
247	5	28.46	4.03	0	4	-0.68452381
247	6	20.32	3.76	0	4	-0.629960317
247	7	29.52	5.26	0	5	-0.446428571
247	8	25.36	5.36	0	4	-0.639880952
247	9	12.91	4.49	0	4	-1.155753968
247	10	17.24	5.12	0	4	-1.279761905
247	11	3.4	5.09	0	3	-1.512896825
247	12	5.96	5.47	0	4	-1.463293651
247	13	16.65	4.41	0	4	-1.339285714
247	14	61.46	3.14	0	4	-1.259920635
247	15	180.78	4.86	0	4	-1.319444444
247	16	174.01	4.49	0	4	-1.031746032
247	17	176.38	3.18	0	4	-0.773809524
247	18	178.73	2.07	0	5	-0.421626984
247	19	189.51	2.78	0	4	-0.56547619
247	20	202.7	2.51	0	4	-0.595238095
247	21	200.63	2.14	0	4	-0.639880952

247	22	199.03	2.75	0	4	-0.600198413
247	23	203.47	2.66	0	5	-0.451388889
248	0	180.44	2.81	0	5	-0.35218254
248	1	187.75	4.26	0	4	-0.734126984
248	2	191.31	1.44	0	4	-0.580357143
248	3	204.81	1.29	0	5	-0.381944444
248	4	240.57	1.24	0	4	-0.639880952
248	5	176	0.99	0	4	-0.500992063
248	6	73.36	1.52	0	5	-0.233134921
248	7	184	2.04	0	4	-0.873015873
248	8	22.57	3.75	0	4	-1.111111111
248	9	14.52	6.77	0	4	-1.473214286
248	10	5.34	6.12	0	4	-1.403769841
248	11	4.41	5.09	0	4	-1.438492063
248	12	3.6	5.27	0	3	-1.537698413
248	13	4.93	6.62	0	4	-1.418650794
248	14	8.8	9.25	0	4	-1.344246032
248	15	11.01	10.76	0	4	-1.28968254
248	16	11.09	10.63	0	4	-1.374007937
248	17	14.04	11.23	0	4	-1.28968254
248	18	12.33	11.98	0	4	-1.19047619
248	19	14.08	13.24	0	4	-1.19047619
248	20	16.18	13.34	0	4	-1.170634921
248	21	14.95	11.69	0	4	-1.111111111
248	22	19.68	9.67	0	4	-1.071428571
248	23	17.99	9.12	0	4	-1.076388889
249	0	20.99	10.12	0	4	-1.016865079
249	1	19.03	11.2	0	4	-1.071428571
249	2	15.85	11.39	0	4	-1.101190476
249	3	18.44	11.21	0	4	-1.051587302
249	4	20.75	11.25	0	4	-0.987103175
249	5	22.47	10.18	0	4	-0.992063492
249	6	20.93	9.38	0	4	-1.071428571
249	7	12.75	8.97	0	4	-1.433531746
249	8	14.79	8.13	0	3	-1.62202381
249	9	11.95	7.63	0	2	-1.805555556
249	10	10.87	7.35	0	2	-1.785714286
249	11	6.96	6.92	0	2	-1.870039683
249	12	2.43	6.77	0	2	-1.879960317
249	13	355.7	6.72	0	2	-1.805555556
249	14	358.68	6.91	0	2	-1.741071429
249	15	1.93	6.68	0	3	-1.666666667
249	16	1.83	6.58	0	4	-1.478174603
249	17	9.86	7.32	0	4	-1.274801587
249	18	20.66	6.54	0	4	-0.932539683
249	19	24.14	6.52	0	4	-0.709325397
249	20	26.89	5.7	0	5	-0.381944444
249	21	26.43	4.37	0	5	-0.024801587
249	22	26.88	5.26	0	5	0.396825397

249	23	37.8	5.15	0	5	0.882936508
250	0	24.46	5.91	0	5	0.481150794
250	1	22.39	5.81	0	5	-0.084325397
250	2	18.44	6.83	0	4	-0.773809524
250	3	23.79	6.66	0	4	-0.729166667
250	4	29.5	6.82	0	4	-0.793650794
250	5	24.77	7.59	0	4	-0.932539683
250	6	28.89	7.59	0	4	-0.992063492
250	7	25.92	8.15	0	4	-1.195436508
250	8	26.59	5.5	0	4	-1.274801587
250	9	30.89	3.22	0	4	-1.294642857
250	10	38.81	4.22	0	4	-1.423611111
250	11	31.92	4.68	0	3	-1.517857143
250	12	5.39	4.91	0	3	-1.651785714
250	13	51.74	4.19	0	3	-1.5625
250	14	240.3	3.54	0	3	-1.617063492
250	15	250.68	3.11	0	4	-1.319444444
250	16	127.03	2.57	0	4	-1.324404762
250	17	151.01	2.22	0	4	-0.972222222
250	18	224.24	1.54	0	5	0.238095238
250	19	276.75	1.28	0	5	0.094246032
250	20	354.44	2.31	0	5	0.282738095
250	21	28.43	3.17	0	5	1.071428571
250	22	31.26	3.96	0	5	1.334325397
250	23	35.94	2.69	0	5	0.987103175
251	0	35.93	2.67	0	5	1.23015873
251	1	29.66	3.72	0	6	1.681547619
251	2	31.39	4.01	0	6	1.62202381
251	3	38.4	4.1	0	6	1.845238095
251	4	25.52	2.76	0	5	1.240079365
251	5	26.72	2.09	0	5	1.056547619
251	6	26.78	3.24	0	5	0.788690476
251	7	32.53	3.22	0	5	-0.337301587
251	8	127.88	1.88	0	4	-1.135912698
251	9	173.27	3.23	0	4	-1.339285714
251	10	160.82	3.93	0	4	-1.408730159
251	11	173	4.76	0	2	-1.755952381
251	12	166	4.76	0	2	-1.865079365
251	13	166.35	5.21	0	1	-1.969246032
251	14	190.07	6.76	0	2	-1.711309524
251	15	186.81	5.88	0	4	-1.488095238
251	16	186.22	6.12	0	4	-1.339285714
251	17	191.16	6.79	0	4	-0.87797619
251	18	195.79	4.77	0	5	-0.406746032
251	19	189.63	2.58	0	5	0.138888889
251	20	187.7	3.85	0	5	0.193452381
251	21	200.15	4.3	0	5	0.054563492
251	22	192.66	4.43	0	5	0.173611111
251	23	180.01	4.76	0	5	0

252	0	186.12	4.07	0	5	-0.104166667
252	1	206.79	2.77	0	5	-0.114087302
252	2	207.63	2.92	0	5	-0.178571429
252	3	198.08	3.77	0	5	0.029761905
252	4	193.33	3.33	0	5	0.079365079
252	5	175.41	3.57	0	5	0.972222222
252	6	194.69	3.53	0	5	0.376984127
252	7	183.53	5.09	0	4	-0.922619048
252	8	178.94	5.12	0	4	-1.374007937
252	9	175.11	5.51	0	4	-1.498015873
252	10	173.03	5.29	0	3	-1.607142857
252	11	164.98	4.33	0	2	-1.845238095
252	12	169.37	5.21	0	2	-1.810515873
252	13	182.92	5.17	0	3	-1.617063492
252	14	191.87	5.98	0	4	-1.413690476
252	15	198.32	5.51	0	4	-1.319444444
252	16	193.22	6.42	0	4	-1.155753968
252	17	189.44	4.09	0	4	-0.768849206
252	18	183.03	5.34	0	5	-0.496031746
252	19	181.72	4.66	0	5	-0.307539683
252	20	186.51	1.69	0	5	-0.024801587
252	21	47.56	1.48	0	5	0.089285714
252	22	59.5	1.58	0	5	0.411706349
252	23	175.22	2.07	0	5	0.699404762
253	0	160.14	1.88	0	5	0.178571429
253	1	139.09	1.75	0	5	-0.079365079
253	2	149.8	1.64	0	5	0.35218254
253	3	157.32	1.14	0	5	0.277777778
253	4	117.31	1.38	0	5	0.262896825
253	5	52.61	1.38	0	5	0.203373016
253	6	73.84	1.62	0	5	0.228174603
253	7	143.33	1.88	0	4	-0.724206349
253	8	183.15	2.97	0	4	-1.130952381
253	9	187.27	4.08	0	4	-1.339285714
253	10	209.57	4.12	0	4	-1.150793651
253	11	207.25	2.61	0	4	-1.215277778
253	12	9.3	3.16	0	4	-1.453373016
253	13	46.88	2.97	0	4	-1.438492063
253	14	314.53	2.47	0	4	-0.97718254
253	15	95.26	2.94	0	4	-0.580357143
253	16	168.59	2.44	0	5	-0.491071429
253	17	199.4	2.58	0	5	-0.396825397
253	18	138.24	1.44	0	5	0.124007937
253	19	356.09	2.12	0	5	0.119047619
253	20	30.55	5.43	0	5	0.228174603
253	21	40.37	3.99	0	5	0.386904762
253	22	32.77	3.18	0	5	0.069444444
253	23	33.62	2.8	0	5	0.089285714
254	0	30.95	3.56	0	5	0.540674603

254	1	31.52	5.68	0	5	0.873015873
254	2	29.08	6.41	0	5	0.773809524
254	3	27.38	4.71	0	5	-0.277777778
254	4	27.79	3.61	0	5	-0.307539683
254	5	43.2	2.27	0	5	-0.337301587
254	6	34.76	4.83	0	4	-0.575396825
254	7	34.28	3.91	0	4	-0.873015873
254	8	35.56	4.15	0	4	-1.215277778
254	9	25.2	3.6	0	4	-1.130952381
254	10	259.93	3.88	0	4	-1.383928571
254	11	199.19	4.76	0	4	-1.483134921
254	12	190.02	4.91	0	4	-1.493055556
254	13	187.53	5.22	0	4	-1.438492063
254	14	180.08	5.82	0	3	-1.50297619
254	15	176.58	4.42	0	4	-1.488095238
254	16	176.22	4.4	0	4	-1.195436508
254	17	157.51	2.02	0	4	-0.689484127
254	18	161.46	2.07	0	5	-0.198412698
254	19	104.52	2.22	0	5	0.327380952
254	20	122.27	1.91	0	5	0.758928571
254	21	132.31	1.18	0	5	0.868055556
254	22	176.24	1.6	0	5	0.783730159
254	23	164.93	1.49	0	5	0.307539683
255	0	149.08	1.51	0	5	-0.327380952
255	1	120.33	1.73	0	5	-0.238095238
255	2	120.37	1.53	0	5	0.034722222
255	3	110.78	2.16	0	5	0.228174603
255	4	84.45	2.01	0	5	0.143849206
255	5	102.23	1.34	0	5	-0.302579365
255	6	101.44	1.7	0	5	-0.33234127
255	7	142.69	1.6	0	4	-0.882936508
255	8	230.73	2.44	0	4	-1.091269841
255	9	176.99	4.33	0	4	-1.488095238
255	10	165.83	5.77	0	2	-1.775793651
255	11	171.19	6.3	0	2	-1.870039683
255	12	168.18	5.51	0	2	-1.865079365
255	13	168.86	6.08	0	2	-1.736111111
255	14	169.2	6.32	0	3	-1.607142857
255	15	169.25	4.7	0	4	-1.25
255	16	165.55	4.27	0	4	-1.066468254
255	17	167.4933333	4.323333333	0	4	-0.97718254
255	18	169.4366667	4.376666667	0	4	-0.887896825
255	19	171.38	4.43	0	4	-0.798611111
255	20	170.15	5.62	0	4	-0.932539683
255	21	171.07	5.32	0	4	-0.9375
255	22	170.73	4.43	0	4	-0.922619048
255	23	173.9	4.25	0	4	-0.892857143
256	0	182.36	4.42	0	4	-0.863095238
256	1	190.66	4.83	0	4	-0.798611111

256	2	204.27	3.53	0	4	-0.629960317
256	3	189.17	3.51	0	4	-0.634920635
256	4	187.63	4.52	0	4	-0.704365079
256	5	199.52	4.31	0	4	-0.600198413
256	6	193.19	5.58	0	4	-0.788690476
256	7	186.88	6.15	0	4	-1.150793651
256	8	179.09	5.73	0	4	-1.259920635
256	9	178.9	6.23	0	4	-1.413690476
256	10	178.24	6.72	0	3	-1.597222222
256	11	184.39	6.93	0	4	-1.388888889
256	12	189.1	6.98	0	4	-1.26984127
256	13	189.46	7.44	0	4	-1.245039683
256	14	189.74	8.56	0	4	-1.344246032
256	15	174.95	6.39	0	4	-1.26984127
256	16	170.47	5.76	0	4	-0.992063492
256	17	170.67	5.51	0	4	-0.798611111
256	18	169.81	4.51	0	4	-0.60515873
256	19	164.98	3.84	0	4	-0.595238095
256	20	177.87	6.25	0	4	-0.550595238
256	21	183.84	7.33	0	4	-0.729166667
256	22	179.99	7.59	0	4	-0.783730159
256	23	177.89	6.23	0	4	-0.783730159
257	0	191.66	5.71	0	4	-0.813492063
257	1	186.56	5.46	0.22	5	-0.376984127
257	2	175.3	3.43	0.07	5	-0.099206349
257	3	144.27	1.99	0.02	5	-0.243055556
257	4	189	2.07	0	5	-0.109126984
257	5	210.99	2.29	0	5	-0.426587302
257	6	254.39	2.43	0	5	-0.357142857
257	7	98.7	3.45	0	4	-0.758928571
257	8	14.24	5.29	0	4	-1.259920635
257	9	359.38	4.84	0	4	-1.294642857
257	10	359.25	5.71	0	4	-1.344246032
257	11	4.26	6.44	0	3	-1.567460317
257	12	12.33	5.92	0	3	-1.517857143
257	13	7.36	5.79	0	3	-1.537698413
257	14	8.22	5.64	0	4	-1.473214286
257	15	0.53	4.58	0	4	-1.284722222
257	16	12.25	5.32	0	4	-1.245039683
257	17	359.98	4.03	0	4	-0.679563492
257	18	18	3.64	0	5	0.054563492
257	19	30.84	5.21	0	5	0.674603175
257	20	28.76	3.67	0	5	0.803571429
257	21	23.61	4.81	0	5	1.314484127
257	22	26.22	6.1	0	6	1.820436508
257	23	28.56	5.23	0	5	0.987103175
258	0	26.3	5.07	0	5	0.798611111
258	1	21.02	6.05	0	5	-0.064484127
258	2	21.31	5.63	0	5	-0.381944444

258	3	25.46	5.49	0	5	-0.119047619
258	4	28.12	6.56	0	5	-0.079365079
258	5	36.43	4.99	0	5	0.198412698
258	6	37.95	5.23	0	5	0.60515873
258	7	39.43	4.98	0	5	0.158730159
258	8	41.82	4.26	0	4	-0.823412698
258	9	331.19	3.06	0	4	-1.299603175
258	10	214.83	4.37	0	4	-1.393849206
258	11	179.58	5.53	0	3	-1.532738095
258	12	157.17	4.48	0	1	-1.984126984
258	13	169.63	6.42	0	2	-1.83531746
258	14	170.21	6.75	0	3	-1.617063492
258	15	169.32	5.13	0	4	-1.329365079
258	16	167.8	4.38	0	4	-1.170634921
258	17	150.8	2.85	0	4	-0.669642857
258	18	148.46	3.03	0	5	-0.381944444
258	19	166.36	4.92	0	4	-0.818452381
258	20	158.4	3.21	0	4	-0.887896825
258	21	140.08	3.1	0	4	-0.625
258	22	91.31	2.42	0	5	-0.406746032
258	23	155.28	3.91	0	4	-0.689484127
259	0	189.84	5.42	0.32	4	-0.704365079
259	1	171.02	4.05	0.2	4	-0.525793651
259	2	187.69	5.57	0.08	4	-0.600198413
259	3	202.37	3.89	0.06	4	-0.540674603
259	4	217.79	2.22	0	4	-0.595238095
259	5	169.24	2.31	0	4	-0.535714286
259	6	207.26	2.51	0	4	-0.620039683
259	7	348.1	4.09	0	4	-0.768849206
259	8	134.38	2.97	0	4	-0.753968254
259	9	238.97	3.49	0	4	-1.150793651
259	10	274	4.81	0	4	-1.388888889
259	11	260.38	5.6	0	3	-1.507936508
259	12	252.27	5.29	0	3	-1.617063492
259	13	304.1	4.87	0	2	-1.785714286
259	14	258.7	5.13	0	3	-1.686507937
259	15	278.68	4.21	0	3	-1.636904762
259	16	248.86	4.3	0	4	-1.294642857
259	17	273.57	3.79	0	4	-0.848214286
259	18	329.58	3.89	0	4	-1.031746032
259	19	298.84	4.15	0	4	-1.021825397
259	20	302.17	4.41	0	4	-1.036706349
259	21	243.48	4.88	0	4	-1.061507937
259	22	257.88	4.84	0	4	-1.101190476
259	23	276.38	5.53	0	4	-1.150793651
260	0	319	5.31	0	4	-1.155753968
260	1	324.66	4.93	0	4	-1.116071429
260	2	356.11	5.45	0	4	-1.016865079
260	3	3.96	5.04	0	4	-0.962301587

260	4	3.57	4.27	0	4	-0.91765873
260	5	9.15	3.74	0	4	-0.868055556
260	6	9.03	3.46	0	4	-0.967261905
260	7	336.75	3.47	0	4	-1.334325397
260	8	340.05	4.64	0	4	-1.418650794
260	9	305.98	5.2	0	3	-1.676587302
260	10	295.39	4.8	0	2	-1.810515873
260	11	325.7	4.69	0	3	-1.676587302
260	12	286.42	4.28	0	3	-1.671626984
260	13	262.71	4.5	0	4	-1.498015873
260	14	299.06	4.52	0	4	-1.369047619
260	15	343.87	3.79	0	4	-1.339285714
260	16	335.35	4.31	0	4	-1.433531746
260	17	234.72	2.65	0	4	-1.021825397
260	18	228.25	2.75	0	5	0.009920635
260	19	183.01	2.52	0	5	0.01984127
260	20	233.56	2.36	0	5	0.302579365
260	21	231.27	3.01	0	5	0.183531746
260	22	243.14	2.76	0	5	-0.347222222
260	23	217.02	2.89	0	5	-0.183531746
261	0	221.41	3.26	0	5	0.257936508
261	1	217.74	3.33	0	5	0.486111111
261	2	230.16	2.79	0	5	0.064484127
261	3	256.86	4.07	0	4	-0.580357143
261	4	205.95	3.45	0	4	-0.550595238
261	5	195.27	3.14	0	5	-0.198412698
261	6	192.95	3.12	0	5	-0.401785714
261	7	196.49	4.52	0	4	-1.205357143
261	8	221.03	4.04	0	4	-1.453373016
261	9	210.15	5.34	0	3	-1.612103175
261	10	195.59	6.6	0	3	-1.587301587
261	11	204.43	7.06	0	2	-1.840277778
261	12	224.68	7.19	0	2	-1.770833333
261	13	203.82	8.37	0	2	-1.810515873
261	14	214.8	6.8	0	3	-1.696428571
261	15	209.23	7.24	0	4	-1.473214286
261	16	201.53	6.83	0	4	-1.066468254
261	17	185.89	6.4	0	4	-0.669642857
261	18	181.85	5.41	0	5	-0.282738095
261	19	184.46	5.29	0	5	-0.213293651
261	20	179.4	3.98	0	5	-0.03968254
261	21	175.68	2.3	0	5	0.550595238
261	22	189.04	2.96	0	5	0.228174603
261	23	214.07	2.07	0	5	0.213293651
262	0	337.15	1.98	0	5	-0.133928571
262	1	238.05	1.91	0	5	-0.178571429
262	2	228.45	1.92	0	5	0.153769841
262	3	228.66	2.06	0	5	0.907738095
262	4	17.66	1.76	0	6	1.60218254

262	5	26.7	1.8	0	5	1.354166667
262	6	81.5	1.68	0	6	2.20734127
262	7	144.53	1.44	0	5	0.05952381
262	8	131.63	2.14	0	4	-1.081349206
262	9	183.51	3.36	0	4	-1.259920635
262	10	209.99	3.56	0	4	-1.279761905
262	11	181.23	4.53	0	4	-1.413690476
262	12	191.39	4.61	0	4	-1.339285714
262	13	177.68	4.54	0	4	-1.473214286
262	14	166.65	3.6	0	4	-1.428571429
262	15	164.14	3.05	0	4	-1.160714286
262	16	208.37	2.83	0	4	-0.773809524
262	17	191.58	5.43	0	4	-0.763888889
262	18	187.72	3.96	0	5	-0.446428571
262	19	163.25	1.86	0	5	0.024801587
262	20	160.28	2.92	0	5	-0.124007937
262	21	174.63	2.32	0	5	0.094246032
262	22	304.85	1.95	0	5	0.243055556
262	23	29.14	1.96	0	5	0.580357143
263	0	14.53	2.17	0	5	0.615079365
263	1	24.71	1.5	0	5	0.932539683
263	2	39.57	1.74	0	5	0.724206349
263	3	18.52	2.98	0	5	0.570436508
263	4	27.38	2.96	0	5	0.486111111
263	5	24.71	2.08	0	5	0.238095238
263	6	23.49	2.41	0	5	0.158730159
263	7	25.68	5.2	0	5	0.327380952
263	8	27.34	3.03	0	4	-0.803571429
263	9	253.89	2.46	0	4	-1.096230159
263	10	250.07	2.17	0	4	-1.245039683
263	11	285.48	2.4	0	4	-1.19047619
263	12	337.28	2.5	0	4	-0.773809524
263	13	44.6	3.35	0	4	-0.887896825
263	14	17.66	4.69	0	4	-0.9375
263	15	22.23	5.74	0.33	4	-0.882936508
263	16	19.63	9.47	1.04	4	-0.758928571
263	17	356.12	4.71	0.47	4	-0.744047619
263	18	19.87	8.01	0.02	4	-0.719246032
263	19	16.18	8.03	0	4	-0.907738095
263	20	15.8	6.27	0	4	-0.848214286
263	21	20.49	6.41	0.02	4	-0.818452381
263	22	10.89	5.92	0	4	-0.818452381
263	23	15.36	5.68	0	4	-0.887896825
264	0	9.58	4.61	0	4	-0.828373016
264	1	7.08	5.27	0	4	-0.818452381
264	2	2.64	3.97	0	4	-0.719246032
264	3	247.66	2.92	0	4	-0.699404762
264	4	276.48	3.8	0	4	-0.739087302
264	5	253.32	3.2	0	4	-0.530753968

264	6	342.83	3.67	0	4	-0.724206349
264	7	82.06	2.86	0	4	-1.026785714
264	8	140.62	2.47	0	4	-1.130952381
264	9	220.11	3.02	0	4	-1.398809524
264	10	215.06	3.33	0	3	-1.577380952
264	11	201.6	3.94	0	4	-1.478174603
264	12	181.76	4.51	0	4	-1.319444444
264	13	178.91	4.13	0	3	-1.527777778
264	14	164.84	3.78	0	4	-1.364087302
264	15	178.05	3.89	0	4	-1.30952381
264	16	190.15	7.1	0	4	-1.011904762
264	17	186.27	5.16	0	5	-0.391865079
264	18	198.28	2.61	0	5	0.461309524
264	19	176.11	3.01	0	5	0.97718254
264	20	175.03	3.07	0	5	0.942460317
264	21	179.88	1.33	0	6	1.706349206
264	22	299.88	1.33	0	6	1.651785714
264	23	247.97	2.02	0	5	1.493055556
265	0	232.61	1.93	0	5	0.674603175
265	1	189.01	2.64	0	5	0.337301587
265	2	186.47	3.38	0	5	0.203373016
265	3	191.85	3.23	0	5	0.3125
265	4	182.42	4.08	0	5	-0.089285714
265	5	189.67	2.73	0	5	-0.034722222
265	6	185.06	3.08	0	5	-0.203373016
265	7	240.54	3.99	0	4	-0.649801587
265	8	247.91	5.64	0	4	-0.689484127
265	9	252.26	5.02	0	4	-1.006944444
265	10	267.74	5.01	0	4	-1.378968254
265	11	284.6	5.99	0	3	-1.54265873
265	12	254.15	6.18	0	3	-1.597222222
265	13	264.23	6.17	0	3	-1.557539683
265	14	251.2	6.39	0	4	-1.458333333
265	15	249.78	5.16	0	4	-1.279761905
265	16	256.7	5.24	0	4	-1.125992063
265	17	261.5	4.41	0	4	-0.714285714
265	18	291.53	2.75	0	5	-0.223214286
265	19	346.47	3.77	0	4	-0.803571429
265	20	317.03	3.29	0	4	-0.714285714
265	21	243.23	3.61	0	4	-0.595238095
265	22	245.6	3.49	0	4	-0.520833333
265	23	256.99	3.47	0	4	-0.64484127
266	0	294.82	3.04	0	4	-0.570436508
266	1	346.69	3.6	0	4	-0.768849206
266	2	272.45	3	0	4	-0.66468254
266	3	238.82	4.36	0	4	-0.674603175
266	4	243.69	4.18	0	4	-0.64484127
266	5	190.5	3.79	0	4	-0.525793651
266	6	206.55	4.21	0	4	-0.729166667

266	7	207.95	3.8	0	4	-1.061507937
266	8	355.63	4.43	0	4	-1.493055556
266	9	347.47	4.36	0	2	-1.701388889
266	10	4.89	5.1	0	3	-1.60218254
266	11	33.96	4.08	0	4	-1.433531746
266	12	346.56	3.18	0	3	-1.557539683
266	13	311.56	3.21	0	4	-1.483134921
266	14	349.5	2.81	0	4	-1.408730159
266	15	319.39	2.91	0	4	-1.245039683
266	16	308.54	2.61	0	4	-1.225198413
266	17	238.06	2.25	0	4	-0.674603175
266	18	318.37	1.77	0	5	0.411706349
266	19	19.9	3.5	0	5	1.235119048
266	20	25.06	4.33	0	6	1.547619048
266	21	44.79	3.53	0	6	1.716269841
266	22	31.99	3.26	0	6	1.592261905
266	23	68.73	2.57	0	5	1.185515873
267	0	21.52	3.02	0	6	1.572420635
267	1	25.56	3.36	0	6	1.825396825
267	2	22.48	4.8	0	6	2.073412698
267	3	30.18	3.29	0	5	1.359126984
267	4	29.27	4.29	0	5	0.863095238
267	5	35.96	4.02	0	5	0.560515873
267	6	70.1	1.73	0	5	-0.168650794
267	7	40.71	2.71	0	5	-0.471230159
267	8	52.53	2.41	0	4	-0.64484127
267	9	83.06	2.1	0	4	-0.808531746
267	10	355.9	1.81	0	4	-1.026785714
267	11	185.3	2.69	0	4	-1.031746032
267	12	188.29	3.54	0	4	-1.036706349
267	13	186.56	5.46	0	4	-0.967261905
267	14	191.97	4.92	0	4	-0.838293651
267	15	185.07	4.13	0	4	-0.838293651
267	16	171.11	3.55	0	4	-0.744047619
267	17	164.69	2.06	0	4	-0.580357143
267	18	137.96	1.57	0	5	-0.421626984
267	19	138.42	1.15	0	5	-0.302579365
267	20	139.96	1.27	0	5	-0.267857143
267	21	119.49	1.18	0	5	-0.248015873
267	22	56.36	1.59	0	5	-0.064484127
267	23	103.44	1.58	0	5	-0.109126984
268	0	353.26	1.17	0	5	-0.357142857
268	1	81.31	1.41	0	5	0.044642857
268	2	140.44	1.21	0	5	0.138888889
268	3	144.69	1.13	0	5	-0.148809524
268	4	190.35	1.76	0	5	-0.29265873
268	5	209.73	1.39	0	5	-0.446428571
268	6	192.35	1.79	0	5	-0.471230159
268	7	212.77	2.35	0	4	-0.600198413

268	8	167.97	1.93	0	4	-0.753968254
268	9	172.29	2.52	0	4	-0.689484127
268	10	187.37	2.99	0	4	-1.086309524
268	11	245.57	3.03	0	4	-1.319444444
268	12	306.11	3.99	0	4	-1.418650794
268	13	348.11	4.84	0	4	-1.145833333
268	14	1.47	5.69	0	4	-1.071428571
268	15	9.31	6.8	0	4	-1.106150794
268	16	5.55	6.67	0	4	-1.031746032
268	17	0.85	5.58	0	4	-0.99702381
268	18	5.76	5.24	0	4	-1.011904762
268	19	4.16	4.92	0	4	-0.967261905
268	20	12.69	6.91	0	4	-1.026785714
268	21	18.66	8.15	0	4	-1.051587302
268	22	16.45	7.28	0	4	-0.962301587
268	23	24.93	5.02	0	4	-0.838293651
269	0	32.37	3.8	0	4	-0.615079365
269	1	15.61	4.41	0	4	-0.882936508
269	2	24.44	4.35	0	4	-0.778769841
269	3	19.2	4.17	0	4	-0.803571429
269	4	14.82	6.49	0	4	-0.947420635
269	5	19.05	6.96	0	4	-1.046626984
269	6	17.95	5.94	0	4	-1.016865079
269	7	16.26	6.48	0	4	-1.225198413
269	8	10.12	7.03	0	4	-1.408730159
269	9	8.8	7.98	0	3	-1.567460317
269	10	6.66	6.92	0	3	-1.636904762
269	11	9.74	7.95	0	3	-1.587301587
269	12	5.99	6.69	0	3	-1.507936508
269	13	8.41	6.92	0	4	-1.324404762
269	14	11.42	5.5	0	4	-1.130952381
269	15	26.98	5.21	0	4	-1.001984127
269	16	20.42	6.34	0	4	-0.962301587
269	17	22.68	7.32	0	4	-0.99702381
269	18	24.55	7.82	0	4	-0.962301587
269	19	20.31	8.05	0	4	-1.021825397
269	20	21.36	7.02	0	4	-1.036706349
269	21	29.48	6.02	0	4	-0.91765873
269	22	21.21	6.78	0	4	-0.982142857
269	23	27.97	6.7	0	4	-0.942460317
270	0	22.53	5.62	0	4	-0.853174603
270	1	21.77	7.18	0	4	-0.858134921
270	2	25.51	6.92	0	4	-0.947420635
270	3	18.48	7.63	0	4	-1.106150794
270	4	21.5	8.1	0	4	-1.091269841
270	5	19.51	9.07	0	4	-1.140873016
270	6	18.67	8.4	0	4	-1.130952381
270	7	21.06	9.52	0.02	4	-1.001984127
270	8	21.18	10.58	0	4	-1.061507937

270	9	20.94	10.17	0	4	-1.121031746
270	10	19.28	9.49	0	4	-1.155753968
270	11	13.68	9.26	0	4	-1.493055556
270	12	11.63	9.33	0.07	3	-1.592261905
270	13	10.38	9.64	0.08	3	-1.527777778
270	14	12.02	10.07	0.07	3	-1.52281746
270	15	16.24	10.2	0.02	4	-1.056547619
270	16	13.32	8.24	0	4	-1.081349206
270	17	12.07	7.23	0	4	-1.031746032
270	18	10.24	6.25	0	4	-0.95734127
270	19	11.72	6.64	0	4	-0.927579365
270	20	27.06	4.31	0	4	-0.595238095
270	21	61.73	2.16	0	5	-0.104166667
270	22	58.75	2.21	0	5	0.079365079
270	23	28.18	3.51	0	5	0.35218254
271	0	46.03	3.97	0	5	0.3125
271	1	43.65	3.22	0	5	0.763888889
271	2	68.11	2.52	0	5	0.823412698
271	3	56.64	2.66	0	5	0.932539683
271	4	72.61	2.73	0	5	0.461309524
271	5	60.15	2.49	0	5	0.322420635
271	6	35.07	2.53	0	5	0.505952381
271	7	71.9	1.44	0	5	-0.233134921
271	8	130.65	1.73	0	4	-1.051587302
271	9	180.36	3.05	0	4	-1.23015873
271	10	184.33	4.35	0	4	-1.21031746
271	11	179.39	3.02	0	4	-1.314484127
271	12	212.48	4.12	0	4	-1.453373016
271	13	208.73	4.21	0	4	-1.498015873
271	14	204.71	4.87	0	4	-1.423611111
271	15	205.42	3.58	0	4	-1.334325397
271	16	207.69	4.01	0	4	-1.121031746
271	17	201.65	3.84	0	5	-0.496031746
271	18	249.08	1.93	0	5	0.500992063
271	19	145.34	2.33	0	5	0.337301587
271	20	98.92	2.28	0	5	1.116071429
271	21	48.15	1.63	0	6	1.661706349
271	22	66.29	1.29	0	6	1.884920635
271	23	28.28	1.16	0	6	2.078373016
272	0	19.88	1.8	0	6	2.113095238
272	1	32.6	2.58	0	6	2.410714286
272	2	68.28	2.37	0	6	1.870039683
272	3	31.92	4.73	0	5	0.297619048
272	4	43.5	3.82	0	5	-0.27281746
272	5	49.06	3.56	0	5	-0.178571429
272	6	69.59	3.3	0	5	-0.357142857
272	7	66.17	3.77	0	4	-0.823412698
272	8	21.71	7.28	0	4	-1.225198413
272	9	8.2	8.64	0	3	-1.597222222

272	10	2.69	8.31	0	2	-1.780753968
272	11	13.2	8.76	0	3	-1.631944444
272	12	6.43	7.97	0	4	-1.478174603
272	13	6.41	7.58	0	2	-1.750992063
272	14	3.05	6.55	0	3	-1.661706349
272	15	8.43	6.64	0	4	-1.493055556
272	16	20.92	7.52	0	4	-1.299603175
272	17	21.87	7.47	0	4	-1.016865079
272	18	21.33	7.35	0	4	-0.843253968
272	19	20.14	7.67	0	4	-0.783730159
272	20	21.83	6.22	0	4	-0.749007937
272	21	28.05	5.51	0	4	-0.699404762
272	22	35.16	4.68	0	5	-0.357142857
272	23	49.16	3.77	0	5	-0.128968254
273	0	39.69	4.44	0	5	-0.099206349
273	1	23	6.44	0	4	-0.545634921
273	2	39.43	5.1	0	5	-0.337301587
273	3	10.64	7.24	0	4	-0.838293651
273	4	18.21	6.85	0	4	-0.719246032
273	5	18.73	5.75	0	5	-0.491071429
273	6	19.42	5.76	0	4	-0.823412698
273	7	17.47	5.66	0	4	-1.170634921
273	8	8.78	5.3	0	4	-1.393849206
273	9	11.91	4.14	0	4	-1.383928571
273	10	337.3	3.41	0	3	-1.512896825
273	11	348.76	4.2	0	3	-1.567460317
273	12	6.53	3.38	0	4	-1.408730159
273	13	345.25	3.92	0	4	-1.483134921
273	14	352.15	3.28	0	4	-1.354166667
273	15	359.19	2.9	0	4	-1.329365079
273	16	104.62	1.87	0	4	-1.066468254
273	17	134.64	1.2	0	5	-0.441468254
273	18	68.54	2.18	0	5	0.555555556
273	19	63.58	1.73	0	5	0.257936508
273	20	26.29	2.56	0	5	0.530753968
273	21	24.48	3.2	0	5	0.907738095
273	22	29.29	3.99	0	5	1.453373016
273	23	28.49	4.06	0	6	1.641865079
274	0	24.33	3.63	0	6	1.597222222
274	1	27.38	4.11	0	6	1.825396825
274	2	24.59	3.32	0	6	1.820436508
274	3	30.12	4.47	0	6	2.078373016
274	4	28.81	4.98	0	6	1.875
274	5	38.17	3.78	0	6	1.840277778
274	6	36.91	3.17	0	6	1.612103175
274	7	39.46	2.67	0	5	0.451388889
274	8	108.51	1.69	0	4	-0.947420635
274	9	188.08	3.04	0	4	-1.155753968
274	10	181.67	4.89	0	4	-1.413690476

274	11	179.12	5.92	0	3	-1.617063492
274	12	178.25	6.69	0	2	-1.711309524
274	13	178.48	6.5	0	2	-1.721230159
274	14	167.76	5.08	0	2	-1.736111111
274	15	166.75	4.53	0	3	-1.587301587
274	16	174.34	4.91	0	4	-1.121031746
274	17	182.55	4.71	0	5	-0.33234127
274	18	191.81	4.17	0	5	-0.109126984
274	19	192.01	5.41	0	5	-0.362103175
274	20	216.37	2.84	0	5	-0.029761905
274	21	221.62	2.03	0	5	-0.044642857
274	22	179.19	1.22	0	5	0.902777778
274	23	22.68	1.84	0	5	1.23015873
275	0	25.92	2.08	0	5	1.185515873
275	1	22.42	2.84	0	6	1.651785714
275	2	26.48	2.67	0	6	1.507936508
275	3	30.83	3.18	0	6	1.974206349
275	4	33.43	2.32	0	5	1.334325397
275	5	31.07	2.22	0	5	0.669642857
275	6	74.34	1.54	0	5	-0.287698413
275	7	80.09	1.35	0	4	-0.64484127
275	8	37.84	1.97	0	4	-0.530753968
275	9	98.44	2.38	0	4	-0.699404762
275	10	212.12	3.31	0	4	-0.912698413
275	11	194.85	3.73	0	3	-1.676587302
275	12	173.55	4.88	0	1	-2.033730159
275	13	165.57	4.84	0	2	-1.825396825
275	14	153.8	3.6	0	3	-1.671626984
275	15	163.88	3.86	0	3	-1.537698413
275	16	164.9	2.6	0	4	-0.833333333
275	17	174.75	2.32	0	5	-0.163690476
275	18	126.38	1.81	0	5	0.01984127
275	19	158.1	1.27	0	5	0.302579365
275	20	162.51	1.75	0	5	0.763888889
275	21	340.64	1.89	0	5	0.406746032
275	22	22.39	2.34	0	5	0.729166667
275	23	25.23	3.59	0	5	0.907738095
276	0	26.23	4.59	0	5	1.116071429
276	1	29.69	5.86	0	5	1.378968254
276	2	31.17	5.08	0	5	1.398809524
276	3	26.47	5.12	0	5	0.257936508
276	4	43.38	4.11	0	5	-0.193452381
276	5	56.33	3.65	0	5	-0.456349206
276	6	57.06	2.72	0	5	-0.416666667
276	7	50.46	3.45	0	4	-0.66468254
276	8	35.46	2.47	0	4	-0.808531746
276	9	20.33	3.25	0	4	-0.952380952
276	10	41.28	4.59	0	4	-1.408730159
276	11	1.84	2.92	0	1	-2.316468254

276	12	45.44	3.19	0	2	-1.830357143
276	13	17.78	3.12	0	4	-1.274801587
276	14	219.15	2.96	0	4	-1.30952381
276	15	219.38	2.68	0	4	-1.279761905
276	16	224.26	2.38	0	4	-0.987103175
276	17	181.94	1.52	0	5	0.044642857
276	18	28.78	2.45	0	5	0.932539683
276	19	27.82	3.11	0	6	2.018849206
276	20	21.1	3.58	0	6	1.696428571
276	21	17.87	2.86	0	6	1.537698413
276	22	26.2	3.16	0	6	1.716269841
276	23	22.21	3.06	0	6	2.098214286
277	0	35.29	2.49	0	6	2.847222222
277	1	45.29	2.1	0	6	2.073412698
277	2	32.84	1.94	0	5	0.555555556
277	3	24.58	2.06	0	5	0.818452381
277	4	42.71	1.38	0	5	0.486111111
277	5	79.47	1.69	0	5	0.590277778
277	6	28.59	2.53	0	5	0.575396825
277	7	157.34	2	0	5	0.987103175
277	8	127.45	2.22	0	5	1.205357143
277	9	180.33	3.14	0	5	-0.054563492
277	10	201.26	1.94	0	5	-0.426587302
277	11	155.75	2.14	0	5	-0.307539683
277	12	288	4.53	0	4	-1.116071429
277	13	307.72	5.04	0	4	-1.438492063
277	14	304.06	3.77	0	4	-1.354166667
277	15	247.27	3.4	0	4	-1.150793651
277	16	248.57	2.99	0	4	-0.699404762
277	17	318.14	3	0	5	-0.188492063
277	18	359.25	5.43	0	4	-0.545634921
277	19	359.01	4.59	0	4	-0.520833333
277	20	1.99	6.06	0	5	-0.466269841
277	21	6.36	4.37	0	5	-0.198412698
277	22	166.75	1.89	0	5	1.413690476
277	23	57.62	2.17	0	6	1.567460317
278	0	5.28	1.67	0	6	2.20734127
278	1	17.39	3.8	0	6	2.668650794
278	2	352.03	2.74	0	6	2.698412698
278	3	35.61	4.29	0	6	1.979166667
278	4	24.23	3.71	0	6	1.736111111
278	5	27.37	3.19	0	6	2.291666667
278	6	142.74	1.85	0	5	0.932539683
278	7	192.04	1.76	0	5	-0.044642857
278	8	39.01	2.5	0	4	-0.595238095
278	9	142.19	2.75	0	4	-0.882936508
278	10	181.8	2.64	0	4	-1.026785714
278	11	164.58	3.25	0	4	-1.403769841
278	12	66.2	3.51	0	4	-1.205357143

278	13	142.77	3.14	0	4	-1.388888889
278	14	171.43	5.82	0	3	-1.52281746
278	15	168.14	4.74	0	4	-1.180555556
278	16	169.71	3.4	0	4	-0.535714286
278	17	39.47	2.27	0	5	-0.153769841
278	18	9.86	6.71	0	4	-0.838293651
278	19	10.46	7.11	0	4	-0.778769841
278	20	31.63	4.99	0	4	-0.793650794
278	21	30.53	5.07	0	4	-0.744047619
278	22	5.25	6.23	0	4	-0.927579365
278	23	4.07	8.55	0	4	-1.046626984
279	0	4.55	7.53	0	4	-1.016865079
279	1	8.47	7.08	0	4	-0.99702381
279	2	13.39	5.83	0	4	-0.753968254
279	3	18.47	5.62	0	4	-0.674603175
279	4	23.83	6.55	0	4	-0.858134921
279	5	23.65	6.92	0	4	-0.848214286
279	6	34.8	5	0	4	-0.828373016
279	7	19.95	5.16	0	4	-0.9375
279	8	29.83	4.45	0	4	-0.962301587
279	9	28.68	3.45	0.02	4	-0.788690476
279	10	17.88	4.6	0.03	4	-0.803571429
279	11	27.73	6.19	0	4	-0.882936508
279	12	35.54	3.98	0	4	-0.982142857
279	13	55.2	3.29	0	4	-0.843253968
279	14	35.79	4.87	0	4	-0.848214286
279	15	40.96	4.66	0	4	-0.87797619
279	16	40.74	3.73	0	4	-0.853174603
279	17	55.55	2.74	0	4	-0.922619048
279	18	158.05	1.59	0	4	-0.882936508
279	19	40.97	1.58	0.01	4	-0.66468254
279	20	36.89	1.85	0	4	-0.590277778
279	21	9.09	2.89	0	5	-0.486111111
279	22	27.79	4.62	0	5	-0.491071429
279	23	29.94	5.18	0	4	-0.639880952
280	0	25.26	3.43	0	4	-0.654761905
280	1	17	2.23	0	4	-0.659722222
280	2	25.12	1.23	0	4	-0.530753968
280	3	52.72	1.44	0	5	-0.33234127
280	4	92.91	1.53	0	5	-0.307539683
280	5	63.51	1.68	0	5	-0.208333333
280	6	140.7	1.47	0	5	-0.054563492
280	7	112.13	1.48	0	5	-0.074404762
280	8	178.63	2.34	0	5	-0.35218254
280	9	184.94	2.81	0	4	-0.753968254
280	10	179.63	2.61	0	4	-0.863095238
280	11	168.3	3.13	0	4	-1.071428571
280	12	184.42	1.93	0	4	-1.180555556
280	13	184.08	2.23	0	4	-1.364087302

280	14	287.25	1.8	0	4	-1.215277778
280	15	320.02	2.65	0	4	-0.848214286
280	16	261.83	4.71	0	4	-0.97718254
280	17	333.26	7.1	0	4	-0.947420635
280	18	2.22	8.25	0	4	-0.902777778
280	19	0.31	6.77	0	4	-0.838293651
280	20	358.43	5.8	0	4	-0.868055556
280	21	356.28	5.6	0	4	-0.873015873
280	22	2.35	5.61	0	4	-0.828373016
280	23	80.48	4.01	0	4	-0.704365079
281	0	350.11	4.76	0	4	-0.709325397
281	1	76.2	4.37	0	4	-0.575396825
281	2	356.19	5.38	0	4	-0.749007937
281	3	358.29	5.78	0	4	-0.823412698
281	4	347.72	2.88	0	4	-0.669642857
281	5	320.48	2.46	0	4	-0.550595238
281	6	285.29	3.31	0	4	-0.818452381
281	7	5.75	2.64	0	4	-1.086309524
281	8	347.29	3.93	0	4	-1.364087302
281	9	313.89	3.47	0	2	-1.706349206
281	10	334.71	3.92	0	3	-1.646825397
281	11	333.79	3.84	0	4	-1.458333333
281	12	256.96	3.36	0	4	-1.448412698
281	13	288.36	4.07	0	3	-1.552579365
281	14	320.66	4.06	0	3	-1.592261905
281	15	324.92	3.89	0	4	-1.279761905
281	16	348.64	3.63	0	4	-0.967261905
281	17	290.72	4.05	0	4	-0.87797619
281	18	317.83	4.61	0	4	-0.967261905
281	19	280.69	3.57	0	4	-0.858134921
281	20	275.49	3.76	0	4	-0.848214286
281	21	286.66	3.53	0	4	-0.868055556
281	22	301.21	3.53	0	4	-0.922619048
281	23	253.24	4.17	0	4	-0.833333333
282	0	262.79	3.87	0	4	-0.828373016
282	1	330.55	3.71	0	4	-0.882936508
282	2	287.21	3.12	0	4	-0.902777778
282	3	194.94	2.36	0	5	-0.491071429
282	4	183.66	1.79	0	5	-0.401785714
282	5	188.1	2.82	0	4	-0.629960317
282	6	183.85	3.14	0	4	-0.56547619
282	7	209.3	3.26	0	4	-1.125992063
282	8	253.34	4.14	0	3	-1.572420635
282	9	328.83	4.56	0	1	-1.954365079
282	10	335.55	5.61	0	1	-1.909722222
282	11	276.75	5.9	0	1	-2.008928571
282	12	317.27	5.83	0	1	-2.008928571
282	13	262.33	5.46	0	1	-1.919642857
282	14	292.07	5.21	0	2	-1.820436508

282	15	288.09	5.17	0	3	-1.567460317
282	16	294.67	3.92	0	4	-1.304563492
282	17	347.98	3.36	0	4	-0.9375
282	18	5.2	3.32	0	4	-0.798611111
282	19	4.06	3.64	0	4	-0.778769841
282	20	13.37	3.27	0	4	-0.694444444
282	21	24.67	4.73	0	5	-0.37202381
282	22	33.3	5.37	0	4	-0.60515873
282	23	37.57	5.65	0	4	-0.535714286
283	0	29.03	5.82	0	4	-0.699404762
283	1	33.98	4.02	0	5	-0.406746032
283	2	27.73	5.11	0	4	-0.56547619
283	3	17.85	5.04	0	4	-0.868055556
283	4	27.08	3.87	0	5	-0.491071429
283	5	11.94	5.77	0	4	-0.873015873
283	6	8.65	7.79	0	4	-1.016865079
283	7	6.9	7.02	0	4	-1.245039683
283	8	5.4	8.44	0	4	-1.364087302
283	9	8.18	7.53	0	3	-1.631944444
283	10	2.28	7.74	0	3	-1.681547619
283	11	4.43	7.95	0	2	-1.820436508
283	12	358.16	8.31	0	3	-1.676587302
283	13	350.85	5.87	0	4	-1.334325397
283	14	6.16	7.43	0	4	-1.160714286
283	15	6.18	6.82	0	4	-1.170634921
283	16	0.53	6.24	0	4	-1.135912698
283	17	358.91	4.94	0	4	-1.001984127
283	18	8.67	5.62	0	4	-0.942460317
283	19	355.53	4.15	0	4	-0.912698413
283	20	358.7	4.3	0	4	-1.021825397
283	21	3.04	3.9	0	4	-1.111111111
283	22	331.2	4.07	0	4	-1.061507937
283	23	354.94	3.93	0	4	-1.066468254
284	0	164.92	3.38	0	4	-0.580357143
284	1	133.37	2.24	0	5	0.049603175
284	2	138.18	2.53	0	5	-0.069444444
284	3	130.08	2.29	0	5	-0.421626984
284	4	156.83	2.72	0	5	-0.471230159
284	5	127.24	3.11	0	5	-0.421626984
284	6	197.65	4.64	0	4	-0.763888889
284	7	286.5	3.74	0	4	-0.95734127
284	8	274.35	4.4	0	3	-1.597222222
284	9	323.14	4.1	0	3	-1.681547619
284	10	248.7	5.38	0	2	-1.840277778
284	11	266.77	5.8	0	3	-1.612103175
284	12	257.25	5.59	0	4	-1.378968254
284	13	259.49	6.05	0	4	-1.418650794
284	14	265.69	4.87	0	4	-1.274801587
284	15	271.24	5.32	0	4	-1.23015873

284	16	257.78	4.3	0	4	-1.076388889
284	17	252.3	3.48	0	4	-0.734126984
284	18	229.73	2.15	0	5	-0.064484127
284	19	194.28	2.77	0	5	-0.188492063
284	20	181.89	3.46	0	5	-0.25297619
284	21	201.42	3.39	0	5	-0.396825397
284	22	193.95	2.64	0	5	-0.35218254
284	23	155	2.6	0	5	0.074404762
285	0	107.8	2.05	0	5	0.515873016
285	1	179.39	1.1	0	5	0.456349206
285	2	203.56	1.77	0	5	0.838293651
285	3	181.69	3.04	0	5	1.349206349
285	4	171.64	3.58	0	5	0.763888889
285	5	171.1	2.71	0	5	0.778769841
285	6	170.55	1.75	0	5	0.595238095
285	7	191.5	2.91	0	5	0.337301587
285	8	183.39	4.32	0	5	-0.297619048
285	9	278.87	4.59	0	4	-1.364087302
285	10	275.64	6.3	0	3	-1.631944444
285	11	305.23	5.19	0	3	-1.641865079
285	12	310.74	5.87	0	3	-1.612103175
285	13	288.81	5.13	0	3	-1.592261905
285	14	269.03	4.91	0	4	-1.478174603
285	15	264.15	3.54	0	4	-1.001984127
285	16	231.74	3.19	0	4	-0.575396825
285	17	216.39	3.47	0	5	0.094246032
285	18	259.94	3.99	0	5	0.257936508
285	19	355.08	5.85	0	4	-0.58531746
285	20	357.02	6.1	0	4	-0.610119048
285	21	3.23	5.87	0	4	-0.58531746
285	22	351.08	5.29	0	4	-0.679563492
285	23	1.08	4.92	0	4	-0.639880952
286	0	11.96	4.57	0	5	-0.044642857
286	1	30.92	2.42	0	5	1.091269841
286	2	23.53	2.23	0	6	1.820436508
286	3	23.29	2.56	0	6	2.371031746
286	4	33.13	2.43	0	6	2.251984127
286	5	18.85	3.36	0	6	2.643849206
286	6	32.97	4.21	0	6	2.619047619
286	7	26.26	4.82	0	5	1.30952381
286	8	25.96	2.27	0	4	-0.634920635
286	9	215.6	2.2	0	4	-1.016865079
286	10	307.78	2.36	0	4	-0.932539683
286	11	182.55	4.87	0	4	-1.304563492
286	12	181.87	3.9	0	4	-1.423611111
286	13	202	4.29	0	4	-1.388888889
286	14	204.22	3.75	0	4	-1.180555556
286	15	180.46	3.14	0	4	-0.843253968
286	16	165.45	2.35	0	5	0.3125

286	17	224.88	2.54	0	5	1.279761905
286	18	347.64	1.31	0	6	2.802579365
286	19	351.84	1.85	0	7	4.548611111
286	20	18.13	1.58	0	7	4.98015873
286	21	20.6	1.8	0	7	5.982142857
286	22	14.68	2.7	0	7	5.322420635
286	23	8.49	1.82	0	7	4.231150794
287	0	327.07	1.5	0	7	4.489087302
287	1	8.77	1.85	0	7	4.816468254
287	2	25.34	2.36	0	7	4.6875
287	3	15.44	2.56	0	6	3.625992063
287	4	17.88	2.14	0	6	3.933531746
287	5	27.85	2.57	0	7	4.365079365
287	6	68.54	1.97	0	7	4.126984127
287	7	155.45	1.42	0	6	2.614087302
287	8	190.61	2.22	0	5	0.188492063
287	9	198.21	3.71	0	4	-1.071428571
287	10	187.33	4	0	4	-1.235119048
287	11	183.98	4.57	0	4	-1.359126984
287	12	178.26	5.3	0	4	-1.448412698
287	13	169.41	3.17	0	4	-1.096230159
287	14	168.45	3.18	0	4	-1.180555556
287	15	176.51	2.99	0	4	-0.927579365
287	16	188.97	2.06	0	5	0.104166667
287	17	214.27	2.35	0	6	2.103174603
287	18	171.01	1.85	0	6	2.569444444
287	19	29.91	1.88	0	6	3.39781746
287	20	107.87	1.5	0	7	4.156746032
287	21	88.73	1.91	0	6	3.675595238
287	22	333.12	1.81	0	6	3.501984127
287	23	311.05	1.68	0	6	2.157738095
288	0	21.48	1.82	0	6	1.954365079
288	1	0.86	2.05	0	6	2.951388889
288	2	22.27	2.15	0	7	5.173611111
288	3	129.43	2.07	0	7	4.216269841
288	4	321.57	1.55	0	6	3.601190476
288	5	274.12	1.29	0	6	3.283730159
288	6	17.38	1.51	0	6	3.49702381
288	7	187.17	2.03	0	6	2.77281746
288	8	177.35	3.34	0	6	1.527777778
288	9	180.13	3.31	0	5	-0.307539683
288	10	186.17	3.88	0	4	-1.106150794
288	11	181.76	3.86	0	4	-1.121031746
288	12	186.01	3.76	0	4	-0.892857143
288	13	184.78	4.32	0	4	-0.87797619
288	14	175.27	3.79	0	4	-0.912698413
288	15	182.93	3.54	0	5	-0.421626984
288	16	175.12	2.92	0	5	0.744047619
288	17	207.01	2.64	0	5	1.314484127

288	18	222.58	1.91	0	6	1.979166667
288	19	133.18	1.69	0	6	2.212301587
288	20	145.08	1.96	0	6	2.380952381
288	21	297.81	1.39	0	6	2.728174603
288	22	329.56	1.38	0	6	3.888888889
288	23	8.99	1.68	0	7	4.399801587
289	0	25.6	1.62	0	7	5.29265873
289	1	25.08	1.92	0	7	5.625
289	2	224.45	1.8	0	7	5.714285714
289	3	275.98	1.87	0	7	4.399801587
289	4	28	3.35	0	7	4.6875
289	5	40.78	2.63	0	6	3.903769841
289	6	178.15	1.99	0	6	3.10515873
289	7	295.02	1.9	0	6	2.643849206
289	8	235.1	1.58	0	5	0.188492063
289	9	197.64	2.72	0	4	-1.056547619
289	10	358.24	3.28	0	4	-1.180555556
289	11	294.16	2.42	0	4	-1.26984127
289	12	2.36	3.27	0	4	-1.240079365
289	13	13.63	3.77	0	4	-1.121031746
289	14	27.12	3.34	0	4	-1.274801587
289	15	338.02	2.3	0	4	-0.972222222
289	16	185.94	1.74	0	5	-0.03968254
289	17	16.49	2.37	0	5	1.393849206
289	18	28.81	2.81	0	6	1.706349206
289	19	23.48	2.91	0	6	1.820436508
289	20	30.51	5.69	0	6	2.256944444
289	21	26.53	6.06	0	5	1.121031746
289	22	28.59	4.57	0	5	-0.114087302
289	23	32.28	5.21	0	5	-0.421626984
290	0	41.76	4.28	0	4	-0.749007937
290	1	73.93	3.92	0	4	-0.838293651
290	2	43.69	3.43	0	4	-0.848214286
290	3	62.15	3.43	0	4	-0.882936508
290	4	46.85	3.65	0	4	-1.001984127
290	5	64.35	2.86	0	4	-0.97718254
290	6	84.3	2.63	0	4	-0.947420635
290	7	76.63	2.24	0	4	-0.783730159
290	8	90.63	2.15	0.01	4	-0.818452381
290	9	86.01	2.1	0	4	-0.863095238
290	10	109.9	2.09	0	4	-0.91765873
290	11	95.14	2.09	0	4	-0.952380952
290	12	74.7	2.28	0	4	-1.041666667
290	13	48.93	2.27	0	4	-1.051587302
290	14	21.68	3.15	0	4	-1.021825397
290	15	10.74	3.97	0	4	-0.863095238
290	16	23.5	5.65	0	4	-0.843253968
290	17	25.92	6.72	0	4	-0.89781746
290	18	31	6.05	0	4	-0.972222222

290	19	36.28	5.04	0	4	-1.001984127
290	20	29.45	5.4	0	4	-1.021825397
290	21	31.26	5.69	0	4	-0.987103175
290	22	27.76	5.5	0	4	-1.001984127
290	23	30.99	4.85	0	4	-1.051587302
291	0	32.37	4.61	0	4	-1.011904762
291	1	29.92	4.86	0	4	-1.016865079
291	2	35.24	4.95	0	4	-1.021825397
291	3	36.17	3.83	0	4	-1.026785714
291	4	27.92	3.48	0	4	-1.011904762
291	5	30.38	3.85	0	4	-0.987103175
291	6	30.58	3.65	0	4	-1.036706349
291	7	21.06	4.66	0	4	-1.031746032
291	8	25.78	4.65	0	4	-1.081349206
291	9	27.42	4.08	0	4	-1.150793651
291	10	24.51	3.73	0	4	-1.200396825
291	11	12.85	2.73	0	4	-1.235119048
291	12	221.03	4.79	0	4	-1.388888889
291	13	189.11	5.16	0	4	-1.314484127
291	14	181.98	5.13	0	4	-1.091269841
291	15	179.85	2.68	0.01	4	-0.610119048
291	16	138.85	1.58	0	5	-0.491071429
291	17	77.7	1.92	0	5	-0.486111111
291	18	172.42	1.49	0	5	-0.287698413
291	19	191.17	1.13	0	4	-0.520833333
291	20	39.95	2.1	0	4	-0.649801587
291	21	43.49	1.55	0	4	-0.694444444
291	22	77.5	1.23	0	4	-0.500992063
291	23	201.71	1.51	0	4	-0.515873016
292	0	41.13	3.44	0	4	-0.699404762
292	1	58.6	3.82	0	4	-0.947420635
292	2	39.52	3.48	0	4	-1.006944444
292	3	43.28	2.71	0	4	-1.046626984
292	4	44.07	2.51	0	4	-1.021825397
292	5	97.41	2.01	0	4	-0.982142857
292	6	47.75	2.78	0	4	-0.99702381
292	7	9.94	4.05	0	4	-0.868055556
292	8	27.68	3.46	0.01	4	-0.9375
292	9	303.04	1.89	0	4	-0.967261905
292	10	31.91	2.76	0	4	-1.016865079
292	11	20.99	3.95	0.06	4	-0.972222222
292	12	17.72	3.53	0.06	4	-0.907738095
292	13	9.11	3.3	0.07	4	-0.91765873
292	14	24.85	2.79	0.01	4	-0.768849206
292	15	33.07	5.13	0	4	-0.89781746
292	16	13.76	5.35	0	4	-0.768849206
292	17	19.98	4.08	0	4	-0.828373016
292	18	12.81	6.05	0	4	-0.9375
292	19	10.4	5.87	0	4	-0.9375

292	20	11.65	6.4	0	4	-0.863095238
292	21	12.01	5.11	0	4	-0.783730159
292	22	3.48	4.62	0	4	-0.783730159
292	23	2.61	4.49	0	4	-0.758928571
293	0	5.32	5.32	0	4	-0.689484127
293	1	2.65	4.53	0	4	-0.649801587
293	2	12.24	3.06	0	5	-0.322420635
293	3	6.39	3.47	0	5	-0.223214286
293	4	350.26	4.16	0	5	-0.441468254
293	5	316.45	3.93	0	5	-0.406746032
293	6	312.11	4.73	0	4	-0.659722222
293	7	293.22	4.5	0	4	-0.783730159
293	8	273.16	5.25	0	4	-1.180555556
293	9	291.16	4.56	0	4	-1.448412698
293	10	305.19	4.36	0	4	-1.314484127
293	11	305.78	5.42	0	4	-1.398809524
293	12	313.93	5.74	0	4	-1.478174603
293	13	339.27	6.76	0	4	-1.478174603
293	14	342.35	6.14	0	4	-1.369047619
293	15	352.33	4.99	0	4	-1.19047619
293	16	309.95	4.69	0	4	-0.952380952
293	17	297.04	3.6	0	4	-0.634920635
293	18	349.05	3.53	0	4	-0.590277778
293	19	1.22	4.33	0	4	-0.659722222
293	20	8.22	5.35	0	4	-0.744047619
293	21	2.59	2.81	0	5	-0.148809524
293	22	30.65	2.79	0	5	1.195436508
293	23	40.79	2.34	0	6	1.60218254
294	0	40.95	2.23	0	6	1.780753968
294	1	23.35	2.22	0	6	2.202380952
294	2	45.86	2.5	0	6	2.658730159
294	3	146.35	1.67	0	6	1.790674603
294	4	28.22	1.65	0	5	1.359126984
294	5	23.46	2.67	0	6	2.043650794
294	6	17.39	2.36	0	6	2.217261905
294	7	20.58	2.01	0	5	1.488095238
294	8	359.79	1.81	0	5	0.416666667
294	9	298.9033333	2.41	0	5	-0.145502646
294	10	238.0166667	3.01	0	4	-0.707671958
294	11	177.13	3.61	0	4	-1.26984127
294	12	172.85	4.84	0	4	-1.438492063
294	13	173.55	3.65	0	4	-1.388888889
294	14	180.43	4.85	0	4	-1.418650794
294	15	164.32	3.79	0	4	-1.324404762
294	16	158.54	2.93	0	5	-0.347222222
294	17	187.67	2.1	0	5	0.625
294	18	136.9	1.33	0	5	0.729166667
294	19	187.54	2.53	0	5	0.694444444
294	20	201.33	1.81	0	5	0.58531746

294	21	252.27	1.45	0	5	1.081349206
294	22	15.78	1.28	0	6	1.651785714
294	23	18.41	1.49	0	5	1.235119048
295	0	13.29	1.84	0	5	1.388888889
295	1	2.29	1.82	0	5	1.304563492
295	2	16.55	1.67	0	5	1.28968254
295	3	10.14	1.89	0	5	1.245039683
295	4	14.66	1.83	0	5	0.972222222
295	5	345.55	1.43	0	5	0.87797619
295	6	37.7	1.71	0	5	0.932539683
295	7	84.09	1.29	0	5	0.461309524
295	8	161.77	2.18	0	4	-0.620039683
295	9	178.92	3.76	0	4	-1.121031746
295	10	195.82	4.85	0	4	-1.19047619
295	11	215.37	3.57	0	4	-1.081349206
295	12	192.92	4.65	0	4	-1.200396825
295	13	183.49	4.8	0	4	-1.140873016
295	14	166.52	3.41	0	4	-1.28968254
295	15	167.69	3.24	0	4	-1.026785714
295	16	259.25	2.07	0	5	0.307539683
295	17	235.39	1.59	0	6	2.177579365
295	18	87.58	1.49	0	6	2.658730159
295	19	351.91	1.53	0	6	3.402777778
295	20	34.3	3.85	0	6	3.591269841
295	21	37.54	2.52	0	6	3.382936508
295	22	20.98	6.7	0	5	1.121031746
295	23	9.26	9.04	0	5	-0.267857143
296	0	14.31	10.91	0	4	-0.753968254
296	1	11.7	9.71	0	4	-0.808531746
296	2	14.41	10	0	4	-0.858134921
296	3	19.39	9.82	0	4	-0.887896825
296	4	19.95	8.83	0	4	-0.873015873
296	5	14.26	10.68	0	4	-0.962301587
296	6	21.42	11.11	0	4	-0.922619048
296	7	13.89	9.8	0	4	-1.076388889
296	8	11.43	8.85	0	4	-1.324404762
296	9	3	7.22	0	4	-1.458333333
296	10	354.41	7.35	0	3	-1.572420635
296	11	357.04	7.1	0	3	-1.612103175
296	12	352.82	6.65	0	3	-1.646825397
296	13	350.16	6.99	0	3	-1.517857143
296	14	0.11	7.11	0	4	-1.413690476
296	15	2.56	7.01	0	4	-1.235119048
296	16	1.57	6.81	0	4	-0.9375
296	17	17.15	8.44	0	4	-0.669642857
296	18	23.3	7.46	0	4	-0.510912698
296	19	27.75	5.38	0	5	-0.317460317
296	20	13.75	5.48	0	5	-0.35218254
296	21	33.45	4.64	0	5	0.545634921

296	22	38.08	4.43	0	5	0.803571429
296	23	31.83	5.13	0	5	0.699404762
297	0	33.37	5.71	0	5	1.259920635
297	1	33.96	4.77	0	6	1.607142857
297	2	31.46	6.25	0	5	1.086309524
297	3	31.69	5.61	0	5	1.458333333
297	4	33.5	5.48	0	5	1.369047619
297	5	35.41	5.29	0	5	1.259920635
297	6	43.19	3.72	0	5	1.016865079
297	7	32.51	4.05	0	5	0.074404762
297	8	34.02	4.19	0	4	-0.967261905
297	9	14.53	3.37	0	4	-1.086309524
297	10	269.02	3.66	0	4	-1.200396825
297	11	210.9	4.82	0	4	-1.28968254
297	12	175.52	4.6	0	3	-1.50297619
297	13	176.08	5.51	0	3	-1.527777778
297	14	162.75	4.56	0	3	-1.636904762
297	15	153.03	3.6	0	3	-1.517857143
297	16	147.99	2.7	0	4	-0.669642857
297	17	156.24	1.93	0	5	0.243055556
297	18	160.68	1.76	0	5	0.029761905
297	19	181.49	2.35	0	5	0.014880952
297	20	190.19	2.45	0	5	0.133928571
297	21	179.95	1.59	0	5	0.35218254
297	22	225.62	1.7	0	5	0.441468254
297	23	286.13	1.74	0	5	0.714285714
298	0	354.58	1.36	0	5	0.758928571
298	1	307.63	1.9	0	5	0.33234127
298	2	11.49	1.85	0	5	0.634920635
298	3	353.85	2.13	0	5	0.520833333
298	4	24.77	1.95	0	5	0.610119048
298	5	201.96	1.55	0	5	0.143849206
298	6	272.7	1.68	0	5	0.079365079
298	7	212.82	1.58	0	5	-0.396825397
298	8	203.39	3.69	0	4	-1.026785714
298	9	168.63	2.83	0	4	-1.101190476
298	10	170.45	3.38	0	4	-1.205357143
298	11	213.49	3.94	0	4	-0.907738095
298	12	156.05	7.31	0	4	-1.066468254
298	13	194.31	5.23	0	4	-1.284722222
298	14	173.21	4.75	0	4	-1.453373016
298	15	171.45	3.6	0	4	-1.200396825
298	16	158.96	2.17	0	5	-0.446428571
298	17	139	1.67	0	5	0.773809524
298	18	17.9	1.27	0	6	1.651785714
298	19	355.54	1.56	0	5	1.413690476
298	20	22.5	2.61	0	5	1.046626984
298	21	17.64	2.73	0	6	1.592261905
298	22	28.16	2.07	0	6	2.470238095

298	23	25.76	2.56	0	6	3.199404762
299	0	15.86	3.27	0	6	3.521825397
299	1	27.8	5.72	0	7	4.072420635
299	2	37.59	5.87	0	6	2.862103175
299	3	39.08	4.52	0	6	2.108134921
299	4	38.78	3.21	0	6	2.346230159
299	5	25.35	4.91	0	6	2.202380952
299	6	54.41	3.94	0	6	2.564484127
299	7	41.14	3.44	0	6	2.301587302
299	8	42.65	2.92	0	5	1.264880952
299	9	98.28	2.13	0	4	-0.615079365
299	10	254.46	1.96	0	5	-0.302579365
299	11	240.44	1.98	0	4	-0.60515873
299	12	199.4	3.52	0	4	-1.061507937
299	13	192.17	4.91	0	4	-1.205357143
299	14	188.56	5.29	0	4	-1.259920635
299	15	173.76	4.24	0	4	-1.081349206
299	16	168.36	2.92	0	5	-0.089285714
299	17	184.01	2.45	0	5	0.768849206
299	18	173.05	4.03	0	5	0.37202381
299	19	167.47	3.55	0	5	0.248015873
299	20	202.48	1.49	0	5	0.540674603
299	21	20.28	1.24	0	5	0.853174603
299	22	10.81	2.06	0	5	1.165674603
299	23	11.27	1.94	0	6	1.552579365
300	0	26.7	2.77	0	6	1.746031746
300	1	26.75	2.93	0	6	1.661706349
300	2	26.03	3.18	0	6	1.721230159
300	3	22.34	1.38	0	5	1.458333333
300	4	23.08	2.12	0	6	1.656746032
300	5	23.5	2.13	0	6	1.537698413
300	6	23.42	3.28	0	6	1.597222222
300	7	59.79	1.9	0	5	1.428571429
300	8	96.55	1.63	0	5	0.079365079
300	9	186.75	3.43	0	4	-0.833333333
300	10	184.97	4.07	0	4	-0.798611111
300	11	201.02	4.66	0	4	-0.962301587
300	12	221.01	4.79	0	4	-0.500992063
300	13	182.03	4.66	0	4	-0.967261905
300	14	161.53	4.19	0	4	-1.433531746
300	15	156.25	3.06	0	4	-0.753968254
300	16	165.54	2.23	0	5	0.119047619
300	17	185.75	3.58	0	5	0.347222222
300	18	181.46	2.38	0	5	0.654761905
300	19	67.91	1.52	0	5	1.081349206
300	20	7.57	1.66	0	5	1.493055556
300	21	6.84	1.92	0	6	2.048611111
300	22	9.81	1.92	0	6	1.954365079
300	23	11.56	1.28	0	6	2.053571429

301	0	25.55	2.5	0	6	1.984126984
301	1	24.49	2.67	0	6	1.974206349
301	2	31.72	3.3	0	6	2.177579365
301	3	26.36	2.66	0	6	2.266865079
301	4	23	3.19	0	6	2.20734127
301	5	26.09	2.55	0	6	1.631944444
301	6	26.81	2.77	0	6	1.736111111
301	7	23.25	2.73	0	5	1.334325397
301	8	55.76	2.27	0	5	0.89781746
301	9	173.12	1.44	0	5	0.094246032
301	10	106.78	1.73	0	5	-0.431547619
301	11	219.88	1.91	0	4	-0.778769841
301	12	222.29	2.3	0	4	-0.967261905
301	13	237.32	3.34	0	4	-0.778769841
301	14	222.13	2.42	0	4	-0.882936508
301	15	205.55	2.25	0	4	-0.66468254
301	16	186.32	1.18	0	5	0.029761905
301	17	318.75	1.51	0	5	0.932539683
301	18	35.44	3.75	0	6	1.949404762
301	19	24.73	2.89	0	6	1.765873016
301	20	16.97	3.54	0	6	1.944444444
301	21	28.9	2.87	0	6	2.023809524
301	22	25.94	3.29	0	6	2.301587302
301	23	88.41	1.5	0	5	1.205357143
302	0	25.46	2.52	0	6	1.646825397
302	1	31.11	4.3	0	6	2.896825397
302	2	48.41	4.77	0	6	2.678571429
302	3	60.4	2.94	0	6	1.721230159
302	4	19.36	3.33	0	5	0.570436508
302	5	349.13	4.18	0	5	0.014880952
302	6	7.97	8.81	0	5	-0.451388889
302	7	10.52	9.68	0	4	-1.036706349
302	8	7.87	12.39	0	4	-1.135912698
302	9	5.63	12.35	0	4	-1.388888889
302	10	2.89	11.7	0	3	-1.52281746
302	11	2.16	11.36	0	3	-1.577380952
302	12	5.4	12.1	0	3	-1.537698413
302	13	6.52	13.8	0	4	-1.468253968
302	14	357.52	13.25	0	4	-1.349206349
302	15	353.84	10.46	0	4	-1.225198413
302	16	0.58	10.92	0	4	-1.056547619
302	17	346.43	8.58	0	4	-0.9375
302	18	332.96	8.44	0	4	-0.9375
302	19	341.54	7.28	0	4	-0.912698413
302	20	342.1	5.96	0	4	-0.863095238
302	21	342.99	6.41	0	4	-0.873015873
302	22	339.43	5.61	0	4	-0.873015873
302	23	325.2	4.94	0	4	-0.868055556
303	0	332.34	5.37	0	4	-0.823412698

303	1	346.65	4.69	0	4	-0.793650794
303	2	330.69	4.66	0	4	-0.887896825
303	3	322.17	4.85	0	4	-0.97718254
303	4	332.05	4.4	0	4	-0.932539683
303	5	337.54	5.02	0	4	-0.91765873
303	6	336.78	6.4	0	4	-1.056547619
303	7	340.76	7.06	0	4	-1.150793651
303	8	331.22	6.31	0	4	-1.294642857
303	9	328.52	7.01	0	3	-1.592261905
303	10	334.15	6.01	0	2	-1.770833333
303	11	337.44	5.85	0	2	-1.716269841
303	12	338.59	6.83	0	4	-1.488095238
303	13	4.11	9.09	0	4	-1.364087302
303	14	11.68	8.96	0	4	-1.284722222
303	15	345.7	7.29	0	4	-1.175595238
303	16	341.62	5.45	0	4	-0.922619048
303	17	351.37	7.34	0	4	-0.967261905
303	18	356.78	10.07	0	4	-1.071428571
303	19	348.88	9.88	0	4	-1.021825397
303	20	349.08	9.1	0	4	-1.041666667
303	21	350.1	8.21	0	4	-0.902777778
303	22	338.07	6.59	0	4	-0.89781746
303	23	343.76	5.67	0	4	-0.89781746
304	0	298.9	3.29	0	4	-0.709325397
304	1	281.13	3.5	0	5	-0.486111111
304	2	321.12	3.59	0	4	-0.649801587
304	3	346.17	5.3	0	4	-0.798611111
304	4	312.76	4.55	0	4	-0.749007937
304	5	309.49	2.93	0	4	-0.639880952
304	6	335.01	4.77	0	4	-0.803571429
304	7	350.03	8.64	0	4	-1.101190476
304	8	1.17	13.41	0	4	-1.259920635
304	9	358.43	12.56	0	4	-1.468253968
304	10	1.96	13.04	0	3	-1.656746032
304	11	1.97	13.71	0	3	-1.617063492
304	12	359.66	11.53	0	3	-1.557539683
304	13	2.02	9.21	0	4	-1.488095238
304	14	8.26	8.51	0	4	-1.26984127
304	15	9.72	9.32	0	4	-1.165674603
304	16	9.44	10.14	0	4	-1.130952381
304	17	6.36	8.56	0	4	-1.076388889
304	18	4.8	9.92	0	4	-0.987103175
304	19	359.04	10.11	0	4	-0.962301587
304	20	353.35	10.62	0	4	-0.947420635
304	21	344.2	7.46	0	4	-0.87797619
304	22	349.74	7.19	0	4	-0.873015873
304	23	348.34	5.17	0	4	-0.873015873
305	0	352.46	9.18	0	4	-0.91765873
305	1	350.36	8.89	0	4	-0.927579365

305	2	350.4	11.2	0	4	-0.992063492
305	3	357.06	13.16	0	4	-1.021825397
305	4	351.8	11.47	0	4	-0.97718254
305	5	352.08	11.73	0	4	-0.987103175
305	6	1.48	11.77	0	4	-1.001984127
305	7	2.97	11.5	0	4	-1.056547619
305	8	1.35	10.13	0	4	-1.195436508
305	9	358.4	11.47	0	4	-1.413690476
305	10	4.01	11.62	0	4	-1.408730159
305	11	357.58	9.73	0	3	-1.597222222
305	12	3.09	12.45	0	3	-1.537698413
305	13	359.17	12.81	0	4	-1.433531746
305	14	0.53	12.62	0	4	-1.329365079
305	15	11.39	11.6	0	4	-1.116071429
305	16	12.72	9.34	0	4	-1.026785714
305	17	8.83	8.35	0	4	-0.952380952
305	18	13.41	10.33	0	4	-0.952380952
305	19	12.77	10.11	0	4	-0.992063492
305	20	10.18	10.2	0	4	-1.061507937
305	21	0.13	8.81	0	4	-1.006944444
305	22	7.77	9.18	0	4	-0.987103175
305	23	355.95	8.98	0	4	-0.982142857
306	0	3.95	11.2	0	4	-0.992063492
306	1	6.97	9.65	0	4	-0.932539683
306	2	9.75	10.34	0	4	-0.927579365
306	3	9.47	8.4	0	4	-0.87797619
306	4	11.25	8.21	0	4	-0.87797619
306	5	12.42	9.9	0	4	-0.947420635
306	6	12.72	10.69	0	4	-0.947420635
306	7	8.9	10.31	0	4	-1.041666667
306	8	3.67	10.78	0	4	-1.240079365
306	9	356.13	12.26	0	4	-1.364087302
306	10	355.18	10.72	0	4	-1.493055556
306	11	358.78	12.82	0	4	-1.493055556
306	12	0.42	13.42	0	4	-1.483134921
306	13	358.1	12.02	0	4	-1.468253968
306	14	353.87	10.91	0	4	-1.339285714
306	15	358.18	10.76	0	4	-1.175595238
306	16	6.13	8.27	0	4	-0.947420635
306	17	14.75	7.32	0	4	-0.798611111
306	18	13.33	10.23	0	4	-0.833333333
306	19	12.34	11.09	0	4	-0.853174603
306	20	11.97	11.71	0	4	-0.828373016
306	21	15.32	12.2	0	4	-0.853174603
306	22	12.62	8.97	0	4	-0.902777778
306	23	359.6	8.58	0	4	-0.858134921
307	0	8.84	10.75	0	4	-0.887896825
307	1	14.6	9.99	0	4	-0.828373016
307	2	11.3	9.75	0	4	-0.868055556

307	3	10.46	11.21	0	4	-0.848214286
307	4	10.92	10.09	0	4	-0.843253968
307	5	21.65	8.51	0	4	-0.659722222
307	6	17.39	12.9	0	4	-0.798611111
307	7	23.54	8.45	0	4	-0.882936508
307	8	13.65	8.62	0	4	-1.155753968
307	9	10.19	10.33	0	4	-1.294642857
307	10	5.03	10.91	0	4	-1.398809524
307	11	0.31	10.42	0	4	-1.483134921
307	12	2.22	9.4	0	4	-1.453373016
307	13	0.14	10.64	0	4	-1.319444444
307	14	0.82	9.73	0	4	-1.225198413
307	15	5.54	7.78	0	4	-1.096230159
307	16	12.5	8.25	0	4	-0.887896825
307	17	9.49	8.51	0	4	-0.719246032
307	18	9.78	8.36	0	4	-0.679563492
307	19	15.45	7.85	0	4	-0.654761905
307	20	19.03	7.3	0	4	-0.520833333
307	21	7.57	8.8	0	4	-0.719246032
307	22	7.83	9.7	0	4	-0.719246032
307	23	12.96	10.87	0	4	-0.749007937
308	0	15.83	11.09	0	4	-0.739087302
308	1	11.65	11.42	0	4	-0.758928571
308	2	15.15	9.14	0	4	-0.709325397
308	3	10.4	5.71	0	4	-0.654761905
308	4	15.7	6.52	0	4	-0.679563492
308	5	9.68	7.28	0	4	-0.788690476
308	6	12.09	6.64	0	4	-0.749007937
308	7	8.6	7.52	0	4	-0.922619048
308	8	9.66	7.36	0	4	-1.001984127
308	9	7.04	7.69	0	4	-1.25
308	10	353.33	6.05	0	4	-1.403769841
308	11	349.95	5.66	0	4	-1.364087302
308	12	358.64	6.2	0	3	-1.537698413
308	13	7.32	6.32	0	4	-1.359126984
308	14	25.87	4.39	0	4	-1.116071429
308	15	350.29	3.01	0	4	-0.992063492
308	16	1.15	3.52	0	5	-0.138888889
308	17	24.24	4.07	0	5	0.510912698
308	18	53.68	3.56	0	5	1.339285714
308	19	46.43	2.55	0	6	1.676587302
308	20	65.83	2.89	0	6	2.197420635
308	21	16.96	3.26	0	6	1.919642857
308	22	31.82	3.05	0	6	1.884920635
308	23	26.85	2.83	0	6	1.527777778
309	0	71.79	1.96	0	6	1.760912698
309	1	55.42	1.98	0	5	0.610119048
309	2	38.58	2.54	0	5	1.116071429
309	3	39	5.81	0	5	1.354166667

309	4	44.84	4.58	0	6	1.661706349
309	5	34.48	6.21	0	6	1.845238095
309	6	33.66	6.53	0	6	2.579365079
309	7	60.75	2.78	0	6	1.552579365
309	8	40.26	3.67	0	5	1.111111111
309	9	21.7	2.81	0	5	0.029761905
309	10	203.31	3.6	0	4	-0.699404762
309	11	223.63	3.38	0	4	-0.853174603
309	12	339.75	2.96	0	4	-0.89781746
309	13	283.31	4.21	0	4	-1.418650794
309	14	285.6	4.4	0	4	-1.264880952
309	15	303.11	3.86	0	4	-1.046626984
309	16	308.52	2.84	0	4	-0.699404762
309	17	307.19	4.57	0	4	-0.783730159
309	18	290.63	6.25	0	4	-0.838293651
309	19	306.39	6.86	0	4	-0.912698413
309	20	306.57	5.87	0	4	-0.882936508
309	21	322.27	5.34	0	4	-0.843253968
309	22	330.58	4.4	0	4	-0.868055556
309	23	316.65	5.06	0	4	-0.972222222
310	0	316.21	4.42	0	4	-0.907738095
310	1	327.02	4.02	0	4	-0.843253968
310	2	315.78	5.18	0	4	-0.87797619
310	3	305.95	7.59	0	4	-0.87797619
310	4	312.57	4.87	0	4	-0.87797619
310	5	306.3	5.62	0	4	-0.868055556
310	6	325.92	4.63	0	4	-0.818452381
310	7	313.28	4.42	0	4	-0.922619048
310	8	325.27	5.13	0	4	-1.215277778
310	9	323.51	7.46	0	4	-1.413690476
310	10	323.79	7.9	0	4	-1.453373016
310	11	335.69	7.9	0	4	-1.259920635
310	12	315.3	7.01	0	4	-1.428571429
310	13	328.66	7.69	0	4	-1.428571429
310	14	332.45	8.04	0	4	-1.488095238
310	15	353.48	9.09	0	4	-1.140873016
310	16	338.62	6.77	0	4	-1.026785714
310	17	328.89	7.18	0	4	-0.952380952
310	18	329.64	7.33	0	4	-0.992063492
310	19	331.42	7.27	0	4	-0.99702381
310	20	347.63	7.51	0	4	-0.97718254
310	21	338.36	6.51	0	4	-0.992063492
310	22	337.36	6.51	0	4	-0.972222222
310	23	346.75	6.28	0	4	-0.907738095
311	0	341.33	6.17	0	4	-0.843253968
311	1	344.45	6.67	0	4	-0.823412698
311	2	343.52	7.64	0	4	-0.833333333
311	3	327.49	5.89	0	4	-0.793650794
311	4	326.66	4.56	0	4	-0.798611111

311	5	313.29	4.01	0	4	-0.753968254
311	6	341.09	3.72	0	4	-0.694444444
311	7	334.5	3.85	0	4	-0.927579365
311	8	341.43	6.07	0	4	-1.245039683
311	9	356.8	7.36	0	4	-1.378968254
311	10	0.8	8.48	0	3	-1.50297619
311	11	4.34	8.64	0	3	-1.62202381
311	12	10.04	7.68	0	3	-1.577380952
311	13	12.7	7.04	0	4	-1.448412698
311	14	11.93	6.45	0	4	-1.334325397
311	15	4.74	6.57	0	4	-1.245039683
311	16	345.41	5.02	0	4	-0.932539683
311	17	2.77	4.55	0	4	-0.798611111
311	18	11.35	2.88	0	5	-0.481150794
311	19	22.97	2.88	0	5	-0.163690476
311	20	21.62	3.89	0	5	-0.257936508
311	21	17.54	6.25	0	4	-0.66468254
311	22	9.5	8.96	0	4	-0.9375
311	23	2.59	7.34	0	4	-0.882936508
312	0	11.67	4.18	0	4	-0.823412698
312	1	0.83	5.75	0	4	-0.838293651
312	2	5.03	6.21	0	4	-0.823412698
312	3	2.21	6.5	0	4	-0.853174603
312	4	11.56	6.19	0	4	-0.773809524
312	5	0.59	6.12	0	4	-0.808531746
312	6	2.24	7.1	0	4	-0.853174603
312	7	11.59	8.98	0	4	-1.011904762
312	8	0.84	7.98	0	4	-1.165674603
312	9	356.86	7.05	0	4	-1.369047619
312	10	2.62	7.44	0	3	-1.50297619
312	11	351.68	6.55	0	3	-1.646825397
312	12	358.15	6.23	0	4	-1.423611111
312	13	359.25	7.33	0	4	-1.294642857
312	14	2.97	7.27	0	4	-1.26984127
312	15	0.96	5.94	0	4	-1.23015873
312	16	0.11	5.87	0	4	-0.922619048
312	17	6.65	4.65	0	4	-0.778769841
312	18	5.03	5.37	0	4	-0.818452381
312	19	18.54	4.29	0	4	-0.704365079
312	20	4.34	5.9	0	4	-0.828373016
312	21	12.92	5.82	0	4	-0.689484127
312	22	11.02	5.48	0	4	-0.719246032
312	23	7.64	5.19	0	4	-0.649801587
313	0	4.47	6.22	0	4	-0.863095238
313	1	20.19	6.58	0	4	-0.863095238
313	2	1.18	5.91	0	4	-0.863095238
313	3	5.59	7.46	0	4	-0.882936508
313	4	7.31	6.5	0	4	-0.843253968
313	5	7.64	7.38	0	4	-0.91765873

313	6	8.8	6.72	0	4	-0.868055556
313	7	52.35	3.75	0	4	-0.709325397
313	8	12.29	6.29	0	4	-1.170634921
313	9	7.45	5.35	0	4	-1.135912698
313	10	19.91	5.5	0	4	-1.121031746
313	11	21.68	6.27	0	4	-1.121031746
313	12	34.13	4.8	0	4	-1.116071429
313	13	39.24	3.33	0	4	-1.170634921
313	14	340.13	2.87	0	4	-0.922619048
313	15	19	1.98	0	4	-1.016865079
313	16	234.59	1.52	0	4	-0.520833333
313	17	42.93	3.63	0	5	0.560515873
313	18	34.75	4.71	0	5	0.972222222
313	19	74.03	2.59	0	5	0.595238095
313	20	50.05	2.74	0	5	1.383928571
313	21	23.74	5.82	0	5	1.21031746
313	22	24.1	4.91	0	5	0.510912698
313	23	38.74	3.41	0	5	0.952380952
314	0	47.87	2.36	0	5	1.140873016
314	1	31	5.57	0	6	2.22718254
314	2	32.93	4.91	0	6	2.083333333
314	3	33.18	5.82	0	6	1.999007937
314	4	29.67	4.45	0	5	1.051587302
314	5	83.26	2.95	0	5	0.9375
314	6	67.12	3.07	0	5	1.175595238
314	7	24.91	4.14	0	5	0.173611111
314	8	36.23	3.04	0	5	0.104166667
314	9	294.74	2.09	0	5	-0.282738095
314	10	20.2	2.54	0	4	-0.64484127
314	11	235.61	2.11	0	5	-0.282738095
314	12	237.4	2.4	0	4	-0.952380952
314	13	170.67	2.65	0	4	-1.111111111
314	14	184.89	4.63	0	4	-0.863095238
314	15	174.41	3.9	0	5	-0.3125
314	16	170.63	4.15	0	4	-0.530753968
314	17	162.56	2.8	0	4	-0.600198413
314	18	163.58	2.83	0	4	-0.734126984
314	19	153.98	2.74	0	4	-0.649801587
314	20	162.32	2.6	0.03	5	-0.406746032
314	21	131.84	1.32	0.01	5	-0.282738095
314	22	166.72	2.87	0.01	5	-0.376984127
314	23	165.03	3.46	0.1	4	-0.510912698
315	0	177.35	3.5	0.01	5	-0.431547619
315	1	172.35	3.85	0.05	4	-0.515873016
315	2	207.47	1.89	0.03	5	-0.466269841
315	3	115.22	1.93	0.26	4	-0.515873016
315	4	46.38	2.61	0.25	4	-0.634920635
315	5	38.69	2.43	0.01	4	-0.56547619
315	6	36.52	4.62	0.07	4	-0.739087302

315	7	66.52	3.72	0.19	4	-0.753968254
315	8	5.19	3.57	0.1	4	-0.724206349
315	9	17.84	5.8	0	4	-0.768849206
315	10	65.89	3.52	0	4	-0.952380952
315	11	23.01	2.61	0	4	-0.858134921
315	12	343.55	3.92	0	4	-0.704365079
315	13	305.25	2.82	0.01	4	-0.659722222
315	14	267.79	4.87	0	4	-0.788690476
315	15	238.92	3.92	0	4	-0.793650794
315	16	265.43	4.79	0	4	-0.87797619
315	17	267.71	4.22	0	4	-0.813492063
315	18	278.68	4.94	0	4	-0.838293651
315	19	293.14	5.38	0	4	-0.833333333
315	20	336.13	4.95	0	4	-0.838293651
315	21	355.96	4.62	0	4	-0.813492063
315	22	1.92	4.33	0	4	-0.758928571
315	23	8.83	5.04	0.01	4	-0.942460317
316	0	353.35	5.85	0.01	4	-0.858134921
316	1	347.02	5.32	0.04	4	-0.749007937
316	2	342.59	6.83	0.01	4	-0.858134921
316	3	339.34	6.41	0.01	4	-0.868055556
316	4	345	7.38	0	4	-0.768849206
316	5	335.74	7.35	0	4	-0.68452381
316	6	337.37	6.7	0	4	-0.882936508
316	7	338.45	5.96	0	4	-0.907738095
316	8	347.45	5.15	0	4	-0.907738095
316	9	343.45	4.46	0	4	-0.9375
316	10	357.08	8.04	0	4	-1.170634921
316	11	6.24	9.7	0	4	-1.121031746
316	12	357.65	8.45	0	4	-1.021825397
316	13	353.51	8.62	0	4	-0.952380952
316	14	357.47	8.71	0	4	-0.9375
316	15	351.68	8.9	0	4	-0.912698413
316	16	354.7	8.51	0	4	-0.89781746
316	17	351.19	8.66	0	4	-0.887896825
316	18	347.57	8.77	0	4	-0.887896825
316	19	347.88	9.31	0	4	-0.907738095
316	20	349.06	9.79	0	4	-0.927579365
316	21	350.47	8.97	0	4	-0.962301587
316	22	354.1	10.02	0	4	-0.962301587
316	23	357.06	10.47	0	4	-0.982142857
317	0	354.96	11.62	0	4	-0.99702381
317	1	2.89	11.08	0	4	-0.967261905
317	2	356.08	10.75	0	4	-0.97718254
317	3	2.05	10.99	0	4	-0.982142857
317	4	357.23	8.64	0	4	-0.987103175
317	5	8.04	10.18	0	4	-0.97718254
317	6	0.01	8.78	0	4	-1.001984127
317	7	353.43	10.46	0	4	-1.056547619

317	8	355.05	11	0	4	-1.235119048
317	9	353.43	9.57	0	4	-1.26984127
317	10	356.75	9.47	0	4	-1.403769841
317	11	0.76	9.55	0	3	-1.567460317
317	12	353.27	7.97	0	3	-1.641865079
317	13	346.62	7.56	0	3	-1.5625
317	14	341.83	6.63	0	4	-1.418650794
317	15	353.94	6.59	0	4	-1.235119048
317	16	12.25	6.12	0	4	-1.066468254
317	17	16.7	7.15	0	4	-0.987103175
317	18	8.64	6.56	0	4	-0.97718254
317	19	5.89	6.35	0	4	-0.95734127
317	20	356.57	5.14	0	4	-0.912698413
317	21	353.71	6.1	0	4	-0.927579365
317	22	357.26	6.49	0	4	-0.932539683
317	23	0.18	7.46	0	4	-0.952380952
318	0	2.23	7.43	0	4	-0.97718254
318	1	4.87	6.91	0	4	-0.947420635
318	2	1.48	5.2	0	4	-0.947420635
318	3	19.79	5.71	0	4	-0.882936508
318	4	4.78	4.9	0	4	-0.907738095
318	5	3.53	5.7	0	4	-0.967261905
318	6	21.63	5.36	0	4	-0.912698413
318	7	13.68	3.65	0	4	-0.987103175
318	8	12.72	3.25	0	4	-1.016865079
318	9	23.39	2.57	0	4	-1.016865079
318	10	48.52	3.71	0	4	-1.051587302
318	11	22.37	2.12	0	4	-1.066468254
318	12	152.27	2.75	0	4	-1.096230159
318	13	192.1	4.2	0	4	-1.116071429
318	14	161.66	3.79	0	4	-1.160714286
318	15	154.01	2.83	0	4	-1.001984127
318	16	159.74	2.32	0	4	-0.788690476
318	17	128.75	2.3	0	4	-0.610119048
318	18	143.25	2.23	0	4	-0.595238095
318	19	107.61	1.96	0	4	-0.60515873
318	20	158.46	2.62	0	4	-0.540674603
318	21	156.61	3.54	0	4	-0.788690476
318	22	158.6	2.82	0	4	-0.739087302
318	23	187.38	3.84	0	4	-0.749007937
319	0	149.81	1.55	0	4	-0.679563492
319	1	159.99	1.42	0	4	-0.555555556
319	2	58.52	2.22	0	4	-0.580357143
319	3	56.62	2.57	0	4	-0.555555556
319	4	71.63	2.75	0	5	-0.411706349
319	5	74.75	2.18	0	5	-0.496031746
319	6	81.4	2.51	0	5	-0.376984127
319	7	107.94	1.79	0	4	-0.540674603
319	8	140.77	4.42	0	4	-0.64484127

319	9	172.77	1.6	0.07	5	-0.317460317
319	10	130.45	1.45	0.01	4	-0.639880952
319	11	139.44	2.33	0	4	-0.674603175
319	12	157.56	3.52	0.01	4	-0.654761905
319	13	157.82	3.93	0	4	-0.758928571
319	14	133.14	1.64	0.01	4	-0.749007937
319	15	168.85	4.81	0	4	-0.575396825
319	16	270.11	5.59	0.11	4	-0.729166667
319	17	327.86	5.67	0	4	-0.843253968
319	18	346.69	5.91	0	4	-0.803571429
319	19	299.29	4.13	0	4	-0.758928571
319	20	300.3	6.74	0	4	-0.892857143
319	21	314.01	6.09	0	4	-0.972222222
319	22	305.93	7	0	4	-1.101190476
319	23	311.19	7.54	0	4	-0.987103175
320	0	312.67	5.96	0	4	-0.927579365
320	1	310.38	7.12	0	4	-0.912698413
320	2	295.95	6.69	0	4	-0.882936508
320	3	292.55	8.62	0	4	-0.808531746
320	4	286.8	7.26	0	4	-0.818452381
320	5	289.28	5.98	0	4	-0.808531746
320	6	291.86	6.36	0	4	-0.853174603
320	7	291.23	6.88	0	4	-0.942460317
320	8	291.54	8.7	0	4	-1.076388889
320	9	292.96	10.23	0	4	-1.215277778
320	10	295.72	7.34	0	4	-1.304563492
320	11	307.39	6.28	0	4	-1.150793651
320	12	310.52	8.13	0	4	-1.329365079
320	13	319.64	7.53	0	4	-1.478174603
320	14	303.59	5.75	0	4	-1.279761905
320	15	287	8.36	0	4	-1.056547619
320	16	283.67	6.03	0	4	-0.873015873
320	17	275.94	5.05	0	4	-0.813492063
320	18	278.15	6.33	0	4	-0.753968254
320	19	284.77	6.16	0	4	-0.724206349
320	20	287.36	5.89	0	4	-0.729166667
320	21	279.73	6.7	0	4	-0.753968254
320	22	282.91	5.55	0	4	-0.744047619
320	23	276.19	6.68	0	4	-0.739087302
321	0	281.99	7.6	0	4	-0.68452381
321	1	269.56	6	0	4	-0.744047619
321	2	284.2	5.53	0	4	-0.753968254
321	3	280.87	5.06	0	4	-0.719246032
321	4	272.85	4.15	0	4	-0.64484127
321	5	277.29	4.39	0	4	-0.768849206
321	6	264.07	3.25	0	4	-0.853174603
321	7	224.58	3.66	0	4	-0.813492063
321	8	214.74	4.87	0	4	-1.21031746
321	9	216.5	4.72	0	4	-1.25

321	10	200.2	5.17	0	4	-1.28968254
321	11	199.5	5.61	0	4	-1.319444444
321	12	207.3	5.8	0	4	-1.393849206
321	13	196.48	6.28	0	4	-1.448412698
321	14	190.35	7.4	0	4	-1.245039683
321	15	187.97	8.08	0	4	-0.992063492
321	16	182.43	6.14	0	4	-0.863095238
321	17	191.02	9.18	0	4	-0.868055556
321	18	190.52	10.02	0	4	-0.882936508
321	19	188.79	8.54	0	4	-0.87797619
321	20	186.94	8.69	0	4	-0.873015873
321	21	187.49	7.92	0	4	-0.833333333
321	22	184.98	7.42	0	4	-0.818452381
321	23	191.77	6.34	0	4	-0.843253968
322	0	190.95	6.04	0	4	-0.838293651
322	1	191.04	5.49	0	4	-0.813492063
322	2	192.6	5.87	0	4	-0.793650794
322	3	192.82	6.01	0	4	-0.763888889
322	4	184.81	5.94	0	4	-0.679563492
322	5	180.89	6.57	0	5	-0.416666667
322	6	181.43	5.79	0	5	-0.223214286
322	7	174.67	5.61	0	5	0.282738095
322	8	172.32	6.06	0	4	-0.659722222
322	9	193.94	7.08	0	4	-1.314484127
322	10	276.36	9.15	0	4	-1.225198413
322	11	268.1	8.08	0	4	-1.433531746
322	12	270.77	8.47	0	3	-1.517857143
322	13	282.45	9.01	0	4	-1.240079365
322	14	293.63	7.88	0	4	-1.30952381
322	15	294.36	7.46	0	4	-1.096230159
322	16	301.92	6.62	0	4	-0.927579365
322	17	293.95	8.87	0	4	-0.853174603
322	18	291.47	9.07	0	4	-0.818452381
322	19	299.55	7.61	0	4	-0.818452381
322	20	297.93	8.21	0	4	-0.843253968
322	21	302.15	5.76	0	4	-0.788690476
322	22	297.38	4.44	0	4	-0.749007937
322	23	278.64	5.35	0	4	-0.734126984
323	0	287.17	5.2	0	4	-0.719246032
323	1	286	5.3	0	4	-0.704365079
323	2	286.35	5.54	0	4	-0.714285714
323	3	278.08	4.19	0	4	-0.724206349
323	4	278.26	4.56	0	4	-0.704365079
323	5	281.37	5.32	0	4	-0.729166667
323	6	277.93	5.59	0	4	-0.68452381
323	7	279.76	5.85	0	4	-0.778769841
323	8	295.51	8.05	0	4	-1.086309524
323	9	303.49	6.17	0	4	-1.374007937
323	10	304.66	7.57	0	4	-1.483134921

323	11	295.8	6.86	0	3	-1.50297619
323	12	286.21	6.78	0	3	-1.567460317
323	13	273.47	6.25	0	4	-1.279761905
323	14	276.86	6.94	0	4	-1.215277778
323	15	258.8	6.5	0	4	-1.061507937
323	16	259.35	5.57	0	4	-0.912698413
323	17	239.73	5.04	0	4	-0.95734127
323	18	259.4	5.81	0	4	-0.9375
323	19	267.7	4.37	0	4	-0.873015873
323	20	255.55	4.9	0	4	-0.887896825
323	21	233.79	3.38	0	4	-0.758928571
323	22	239.24	3.25	0	4	-0.66468254
323	23	197.17	2.93	0	4	-0.550595238
324	0	191.1	3.38	0	4	-0.694444444
324	1	187.4	3.66	0	4	-0.669642857
324	2	233.83	2.57	0	4	-0.634920635
324	3	256.77	4.33	0	4	-0.788690476
324	4	261.58	4.82	0	4	-0.778769841
324	5	296.13	6.61	0	4	-0.773809524
324	6	292.01	4.77	0	4	-0.833333333
324	7	309	3.98	0	4	-0.858134921
324	8	289.05	3.81	0	4	-1.076388889
324	9	303.16	4.42	0	4	-1.259920635
324	10	307.64	5.3	0	4	-1.393849206
324	11	299.11	4.16	0	3	-1.617063492
324	12	318.62	3.06	0	4	-1.215277778
324	13	162.4	3.05	0	4	-1.200396825
324	14	167.01	3.27	0	4	-1.086309524
324	15	199.31	3.43	0	4	-1.026785714
324	16	205	2.37	0	4	-0.798611111
324	17	213.31	1.84	0	4	-0.570436508
324	18	152.09	1.72	0	5	-0.109126984
324	19	160.34	2.09	0	5	-0.094246032
324	20	52.98	1.91	0	5	0.228174603
324	21	35.36	3.43	0	5	0.89781746
324	22	49.59	3.2	0	5	1.125992063
324	23	30.8	2.65	0	5	0.590277778
325	0	35.32	3.57	0	5	1.116071429
325	1	30.42	3.5	0	5	1.245039683
325	2	38.62	2.57	0	5	0.902777778
325	3	36.94	2.91	0	5	1.071428571
325	4	26.51	2.38	0	5	1.006944444
325	5	23.28	2.41	0	5	1.116071429
325	6	45.06	2.14	0	5	0.739087302
325	7	35.36	1.73	0	5	0.649801587
325	8	128.16	1.33	0	5	0.03968254
325	9	178.04	2.96	0	4	-1.066468254
325	10	170.21	4.58	0	4	-1.354166667
325	11	175.91	6.96	0	4	-1.493055556

325	12	170.99	7.39	0	3	-1.52281746
325	13	165.77	6.12	0	3	-1.512896825
325	14	174.1	7	0	4	-1.274801587
325	15	184.57	7.69	0	4	-1.001984127
325	16	191.69	5.72	0	4	-0.763888889
325	17	216.52	6.66	0	4	-0.902777778
325	18	246.94	4.54	0	4	-0.89781746
325	19	174.54	4.38	0	4	-0.694444444
325	20	210.46	3.92	0	4	-0.714285714
325	21	264.05	5.32	0	4	-0.808531746
325	22	272.75	6.89	0	4	-0.843253968
325	23	270.43	6.29	0	4	-0.887896825
326	0	272.12	4.64	0	4	-0.803571429
326	1	275.9	4.51	0	4	-0.773809524
326	2	247.48	4.29	0	4	-0.803571429
326	3	212.99	3.69	0	4	-0.66468254
326	4	266.02	3.74	0	4	-0.749007937
326	5	180.76	3.03	0	4	-0.629960317
326	6	187.62	3.5	0	4	-0.510912698
326	7	232.15	4.43	0	4	-0.808531746
326	8	231.84	4.92	0	4	-1.081349206
326	9	265.9	5.03	0	4	-1.220238095
326	10	298.51	4.87	0	4	-1.418650794
326	11	285.11	7.37	0	4	-1.483134921
326	12	289.58	6.39	0	3	-1.547619048
326	13	282	7.34	0	4	-1.304563492
326	14	278.61	7.12	0	4	-1.25
326	15	267.4	6.55	0	4	-1.145833333
326	16	281.48	6.69	0	4	-0.9375
326	17	276.74	5.58	0	4	-0.838293651
326	18	286.85	7.47	0	4	-0.89781746
326	19	285.75	7.11	0	4	-0.868055556
326	20	290.55	8.5	0	4	-0.887896825
326	21	288.13	7.43	0	4	-0.863095238
326	22	297.32	7.45	0	4	-0.892857143
326	23	297.32	7.41	0	4	-0.902777778
327	0	270.24	5.35	0	4	-0.853174603
327	1	274.72	5.53	0	4	-0.868055556
327	2	280.1	5.39	0	4	-0.882936508
327	3	286.88	5.89	0	4	-0.873015873
327	4	291.9	5.39	0	4	-0.858134921
327	5	285.91	4.69	0	4	-0.863095238
327	6	270.09	5.28	0	4	-0.848214286
327	7	282.03	5.92	0	4	-0.907738095
327	8	291.9	5.26	0	4	-1.041666667
327	9	299.81	6.43	0	4	-1.106150794
327	10	290.1	8.38	0	4	-1.23015873
327	11	290.1	9.6	0	4	-1.408730159
327	12	299.99	9.07	0	4	-1.453373016

327	13	284.14	8.96	0	3	-1.552579365
327	14	280.77	8.16	0	4	-1.378968254
327	15	276.84	7.33	0	4	-1.205357143
327	16	274.87	5.68	0	4	-0.922619048
327	17	277.26	5.22	0	4	-0.818452381
327	18	274.02	8.07	0	4	-0.907738095
327	19	275.08	7.59	0	4	-0.912698413
327	20	280.38	7.36	0	4	-0.882936508
327	21	285.11	7.9	0	4	-0.89781746
327	22	294.39	6	0	4	-0.902777778
327	23	295.06	5.38	0	4	-0.868055556
328	0	315.54	7.69	0	4	-0.947420635
328	1	304.75	6.75	0	4	-0.9375
328	2	309.29	5.69	0	4	-0.932539683
328	3	310.45	7.03	0	4	-0.992063492
328	4	309.73	6.15	0	4	-0.99702381
328	5	318.58	5.52	0	4	-0.882936508
328	6	335.35	4.65	0	4	-0.87797619
328	7	273.45	4.71	0	4	-0.972222222
328	8	296.47	5.02	0	4	-1.245039683
328	9	302.51	5.39	0	4	-1.403769841
328	10	324.86	4.54	0	4	-1.428571429
328	11	329.72	5.91	0	3	-1.517857143
328	12	327.33	5.5	0	3	-1.5625
328	13	307.83	4.52	0	3	-1.5625
328	14	308.53	4.84	0	3	-1.517857143
328	15	301.08	5.96	0	4	-1.329365079
328	16	296.5	6.08	0	4	-0.987103175
328	17	291.45	5.92	0	4	-0.868055556
328	18	311.54	6.08	0	4	-0.95734127
328	19	314.29	7.18	0	4	-1.021825397
328	20	341.44	6.33	0	4	-0.972222222
328	21	337.42	5.71	0	4	-0.9375
328	22	324.56	5.6	0	4	-0.887896825
328	23	316.21	5.84	0	4	-0.868055556
329	0	338.64	5.63	0	4	-0.882936508
329	1	341.54	4.8	0	4	-0.858134921
329	2	337.22	4.67	0	4	-0.783730159
329	3	339.52	4.69	0	4	-0.873015873
329	4	338.8	4.22	0	4	-0.89781746
329	5	42.81	3.56	0	5	-0.451388889
329	6	63.2	2.71	0	5	-0.188492063
329	7	45.53	3.69	0	5	-0.034722222
329	8	44.54	3.26	0	4	-0.629960317
329	9	122.24	2.49	0	4	-1.101190476
329	10	64.89	2.84	0	4	-1.140873016
329	11	4.76	2.92	0	4	-1.195436508
329	12	283.9	4.91	0	3	-1.5625
329	13	296.52	5.73	0	3	-1.52281746

329	14	299.13	5.04	0	4	-1.428571429
329	15	332.94	4.38	0	4	-1.180555556
329	16	350.03	3.64	0	4	-0.89781746
329	17	353.68	3.22	0	4	-0.793650794
329	18	26.53	2.5	0	4	-0.510912698
329	19	51.61	2.64	0	4	-0.625
329	20	71.64	2.55	0	5	-0.481150794
329	21	74.34	2.74	0	5	-0.203373016
329	22	43.85	3.54	0	5	0.044642857
329	23	41.03	3	0	5	0.277777778
330	0	31.25	5.7	0	5	1.076388889
330	1	38	4.58	0	5	0.922619048
330	2	40.49	3.24	0	5	1.016865079
330	3	31.4	6.13	0	5	1.339285714
330	4	35.96	5.1	0	5	0.982142857
330	5	35.32	4.37	0	5	0.99702381
330	6	38.5	3.71	0	5	0.987103175
330	7	47.79	3.3	0	5	0.704365079
330	8	52.21	2.56	0	5	-0.27281746
330	9	35.26	3.54	0	4	-0.744047619
330	10	44.96	2.1	0	4	-1.001984127
330	11	14.23	2.88	0	4	-1.096230159
330	12	345.1	2.84	0	4	-1.091269841
330	13	352.92	2.06	0	4	-1.041666667
330	14	229.28	1.74	0	4	-1.066468254
330	15	181.2	1.79	0	4	-0.863095238
330	16	85.15	1.69	0	4	-0.744047619
330	17	96.05	1.76	0	4	-0.813492063
330	18	73.19	1.88	0	4	-0.848214286
330	19	48.26	2.05	0	4	-0.783730159
330	20	24.19	2.52	0	4	-0.60515873
330	21	18.28	4.34	0	4	-0.714285714
330	22	23.03	4.83	0	4	-0.833333333
330	23	19.92	4.24	0	4	-0.813492063
331	0	19.57	4.2	0	4	-0.828373016
331	1	14.47	4.79	0	4	-0.813492063
331	2	15.16	4.56	0	4	-0.763888889
331	3	17.78	5.31	0	4	-0.848214286
331	4	12.82	5.18	0.01	4	-0.813492063
331	5	358.75	4.49	0.03	4	-0.68452381
331	6	351.92	4.77	0.03	5	-0.109126984
331	7	24.54	4.92	0.02	5	0.297619048
331	8	60.38	4.58	0.08	5	-0.337301587
331	9	60.33	4.41	0.15	4	-0.590277778
331	10	77.25	5.08	0.26	4	-0.56547619
331	11	127.69	4.29	0.27	4	-0.625
331	12	78.9	3.68	0.03	4	-0.649801587
331	13	23.89	4.17	0.12	4	-0.615079365
331	14	358.66	3.42	0.03	5	-0.481150794

331	15	353.01	4.38	0	5	-0.441468254
331	16	18.33	6.86	0	4	-0.783730159
331	17	17.19	7.11	0	4	-0.922619048
331	18	9.74	4.99	0	4	-0.803571429
331	19	11.74	5.38	0	4	-0.704365079
331	20	13.54	3.76	0	4	-0.788690476
331	21	6.68	3.06	0	4	-0.709325397
331	22	18.12	3.18	0	4	-0.729166667
331	23	135.22	1.53	0	5	-0.386904762
332	0	133.81	1.8	0	5	0.014880952
332	1	192.21	2.49	0	5	0.238095238
332	2	147.58	2.2	0	5	0.773809524
332	3	157.3	2.39	0	5	1.096230159
332	4	168.35	1.99	0	5	0.56547619
332	5	196.21	1.41	0	5	0.3125
332	6	160.49	1.53	0	5	0.114087302
332	7	176.86	1.76	0	5	0.58531746
332	8	156.91	2.34	0	5	0.35218254
332	9	210.93	3.47	0	4	-0.575396825
332	10	279.75	6.5	0	4	-0.9375
332	11	267.58	6.75	0	4	-0.962301587
332	12	271.42	7.61	0	4	-1.051587302
332	13	272.53	5.82	0	4	-1.046626984
332	14	274.58	4.92	0	4	-0.91765873
332	15	276.65	5.5	0	4	-0.887896825
332	16	272.27	4.81	0	4	-0.768849206
332	17	258.21	4.4	0	4	-0.719246032
332	18	261.95	4.35	0	4	-0.749007937
332	19	228.08	3.28	0	4	-0.739087302
332	20	225.31	3.43	0	4	-0.719246032
332	21	203.46	3.38	0	4	-0.778769841
332	22	246.57	3.63	0	4	-0.778769841
332	23	235.68	4	0	4	-0.763888889
333	0	257	4.57	0	4	-0.744047619
333	1	262.95	3.8	0	4	-0.68452381
333	2	284.98	4.84	0	4	-0.68452381
333	3	300.02	3.88	0	4	-0.744047619
333	4	290.25	4.19	0	4	-0.679563492
333	5	259.41	3.36	0	4	-0.620039683
333	6	242.82	2.96	0	4	-0.629960317
333	7	232.12	2.41	0	5	-0.431547619
333	8	229.02	3.47	0	4	-0.734126984
333	9	229.44	2.98	0	4	-1.011904762
333	10	279.79	3.6	0	4	-1.116071429
333	11	305.13	3.51	0	4	-1.175595238
333	12	283.07	4.27	0	4	-1.086309524
333	13	263.96	4.1	0	4	-0.962301587
333	14	242.51	3.02	0	4	-0.982142857
333	15	210.53	2.92	0	4	-0.982142857

333	16	186.08	3.21	0	4	-0.753968254
333	17	173.29	2.6	0	4	-0.520833333
333	18	200.1	1.33	0	5	-0.317460317
333	19	231.04	1.35	0	5	-0.243055556
333	20	154.51	1.92	0	5	0.133928571
333	21	191.07	2.9	0	5	0.099206349
333	22	275.92	4.44	0	4	-0.535714286
333	23	264.83	4.63	0	4	-0.625
334	0	284	8.43	0	4	-0.699404762
334	1	290.21	7.88	0	4	-0.749007937
334	2	311.44	6.62	0	4	-0.818452381
334	3	312.27	6.77	0	4	-0.853174603
334	4	295.69	4.99	0	4	-0.763888889
334	5	288.24	5.44	0	4	-0.620039683
334	6	282.04	4.91	0	4	-0.505952381
334	7	291.75	5.83	0	5	-0.406746032
334	8	292.53	6.21	0	4	-1.021825397
334	9	305.19	4.91	0	4	-1.235119048
334	10	301.03	5.77	0	4	-1.240079365
334	11	289.07	5.2	0	3	-1.537698413
334	12	275.09	4.85	0	3	-1.537698413
334	13	291.08	5.03	0	4	-1.279761905
334	14	282.15	4.3	0	4	-1.021825397
334	15	296.91	2.95	0	4	-0.982142857
334	16	32.79	1.77	0	4	-0.625
334	17	114.13	1.53	0	5	-0.128968254
334	18	84.1	2.13	0	5	0.089285714
334	19	336.31	2.12	0	5	0.024801587
334	20	135.8	2.16	0	5	-0.406746032
334	21	84.37	1.75	0	5	-0.451388889
334	22	95.91	2.03	0	5	-0.257936508
334	23	117.2	2.75	0	5	-0.486111111
335	0	126.13	2.69	0.01	4	-0.689484127
335	1	188.24	1.54	0.02	4	-0.753968254
335	2	59.45	2.41	0	4	-0.813492063
335	3	33.43	4.08	0	4	-0.818452381
335	4	20.59	4.58	0	4	-0.848214286
335	5	13.57	4.24	0	4	-0.942460317
335	6	12.83	5.1	0	4	-0.972222222
335	7	348.83	5.07	0	4	-1.041666667
335	8	340.69	5.2	0	4	-1.016865079
335	9	352.9	6.01	0	4	-1.036706349
335	10	347.41	6.5	0	4	-1.116071429
335	11	345.71	6.07	0	4	-1.26984127
335	12	358.38	5.35	0	4	-1.056547619
335	13	323.58	5.68	0	4	-1.046626984
335	14	307.55	8.89	0	4	-1.324404762
335	15	311.71	9.2	0	4	-1.130952381
335	16	313.83	8.54	0	4	-0.982142857

335	17	313.86	7.84	0	4	-0.927579365
335	18	317.12	6.82	0	4	-0.927579365
335	19	315.59	6.14	0	4	-0.927579365
335	20	298.49	5.99	0	4	-0.962301587
335	21	291.82	7.28	0	4	-0.962301587
335	22	290.4	8.63	0	4	-0.927579365
335	23	292.74	8.84	0	4	-0.952380952
336	0	294.82	8.91	0	4	-0.932539683
336	1	293.45	9.32	0	4	-0.902777778
336	2	291.05	8.84	0	4	-0.853174603
336	3	291.09	7.78	0	4	-0.833333333
336	4	290.11	7.46	0	4	-0.89781746
336	5	287.2	6.11	0	4	-0.892857143
336	6	293.45	6.62	0	4	-0.912698413
336	7	289.94	6.42	0	4	-0.942460317
336	8	293.02	5.27	0	4	-1.116071429
336	9	302.18	5.48	0	3	-1.517857143
336	10	291.36	5.96	0	3	-1.651785714
336	11	303.18	5.04	0	4	-1.483134921
336	12	296.57	5.79	0	3	-1.50297619
336	13	298.21	5.99	0	3	-1.50297619
336	14	314.53	6.33	0	4	-1.393849206
336	15	313.02	5.46	0	4	-1.185515873
336	16	313.36	4.77	0	4	-1.026785714
336	17	294.39	4.26	0	4	-0.887896825
336	18	325.92	5.1	0	4	-0.892857143
336	19	333.19	5.63	0	4	-0.932539683
336	20	327.73	5.44	0	4	-0.932539683
336	21	333.03	5.61	0	4	-1.001984127
336	22	332.32	5.76	0	4	-1.066468254
336	23	323.02	6.16	0	4	-1.116071429
337	0	336.9	6.52	0	4	-1.061507937
337	1	332.02	6.71	0	4	-1.021825397
337	2	342.14	4.98	0	4	-0.952380952
337	3	347.9	4.74	0	4	-0.932539683
337	4	335.89	4.13	0	4	-0.887896825
337	5	336.77	5.93	0	4	-0.952380952
337	6	339.33	5.12	0	4	-0.927579365
337	7	354.02	6.1	0	4	-0.932539683
337	8	339.38	5.47	0	4	-1.135912698
337	9	348.82	7.17	0	4	-1.383928571
337	10	356.86	6.82	0	4	-1.418650794
337	11	7.05	7.73	0	4	-1.498015873
337	12	6.22	6.92	0	4	-1.423611111
337	13	11.36	7.25	0	4	-1.433531746
337	14	3.52	6.97	0	4	-1.339285714
337	15	333.51	6.93	0	4	-1.155753968
337	16	328.15	5.66	0	4	-0.922619048
337	17	327.11	6.03	0	4	-0.907738095

337	18	336.75	6.32	0	4	-0.912698413
337	19	346.85	6.7	0	4	-0.9375
337	20	336.86	5.04	0	4	-0.932539683
337	21	334.79	5.08	0	4	-0.962301587
337	22	340.77	5.08	0	4	-0.952380952
337	23	340.15	5.26	0	4	-0.962301587
338	0	6.73	3.74	0	4	-0.793650794
338	1	66.6	3.15	0	5	-0.223214286
338	2	40.97	3.47	0	5	-0.476190476
338	3	6.67	4.99	0	4	-0.912698413
338	4	351.48	3.93	0	4	-0.853174603
338	5	4.83	4.25	0	4	-0.853174603
338	6	15.83	4.53	0	4	-0.818452381
338	7	4.55	3.72	0	4	-0.882936508
338	8	359.02	5.9	0	4	-1.145833333
338	9	14.05	4.53	0	4	-1.195436508
338	10	11.52	4.58	0	4	-1.259920635
338	11	357.19	5.7	0	4	-1.498015873
338	12	7.45	7.2	0	3	-1.54265873
338	13	11.03	8.21	0	4	-1.428571429
338	14	2.93	6.69	0	4	-1.364087302
338	15	359.39	5.08	0	4	-1.101190476
338	16	330.7	2.38	0	4	-0.724206349
338	17	348.14	2.93	0	5	-0.476190476
338	18	67.7	3.35	0	5	-0.109126984
338	19	52.03	3.43	0	5	0.188492063
338	20	38.28	4.91	0	5	0.823412698
338	21	19.57	6.87	0	5	1.21031746
338	22	11.22	7.18	0	5	0.486111111
338	23	62.75	4.25	0	5	0.798611111
339	0	12.97	7.33	0	5	0.27281746
339	1	7.37	9.28	0	5	-0.436507937
339	2	6.54	8.81	0	5	-0.456349206
339	3	10.46	5.56	0	4	-0.639880952
339	4	92.24	3.03	0	5	-0.168650794
339	5	50.26	3.71	0	4	-0.56547619
339	6	90.4	3.14	0	5	-0.317460317
339	7	51.7	4.35	0	5	-0.367063492
339	8	26.04	7.83	0	5	-0.496031746
339	9	15.51	10	0	4	-0.813492063
339	10	13.53	8.82	0	4	-1.170634921
339	11	13.65	7.93	0	4	-1.334325397
339	12	14.11	7.94	0	4	-1.101190476
339	13	21.03	6.87	0	4	-1.215277778
339	14	29.65	6.06	0	4	-0.987103175
339	15	38.04	4.09	0	4	-0.803571429
339	16	14.81	2.93	0	5	-0.381944444
339	17	53.74	2.86	0	5	1.001984127
339	18	34.99	5.24	0	6	2.256944444

339	19	33	5.19	0	6	2.46031746
339	20	32.46	4.22	0	6	2.668650794
339	21	33.63	2.87	0	6	2.028769841
339	22	32.2	3.23	0	6	2.465277778
339	23	21.81	2.83	0	6	2.053571429
340	0	23.24	2.06	0	6	1.805555556
340	1	12.71	1.68	0	6	1.512896825
340	2	8.39	1.5	0	5	1.349206349
340	3	32.59	1.31	0	5	0.952380952
340	4	23.78	1.52	0	5	0.505952381
340	5	33.72	1.35	0	5	0.089285714
340	6	4.21	1.4	0	5	0.094246032
340	7	232.62	1.48	0	5	0.143849206
340	8	256.91	1.87	0	4	-0.510912698
340	9	181.7	6.17	0	4	-1.056547619
340	10	164.57	4.5	0	4	-1.175595238
340	11	173.78	6.05	0	4	-1.378968254
340	12	176.86	7.44	0	4	-1.383928571
340	13	221.19	8.51	0	4	-1.329365079
340	14	252.69	6.94	0	4	-1.145833333
340	15	232.31	5.48	0	4	-0.947420635
340	16	211.3	6.57	0	4	-0.699404762
340	17	199.37	6.28	0	4	-0.570436508
340	18	259.42	6.94	0	4	-0.758928571
340	19	283.71	7.69	0	4	-0.833333333
340	20	292.38	7.53	0	4	-0.828373016
340	21	310.15	8.25	0	4	-0.907738095
340	22	303.36	6.89	0	4	-0.89781746
340	23	305.02	8.43	0	4	-0.952380952
341	0	294.6	7.33	0	4	-0.892857143
341	1	297.95	6.52	0	4	-0.892857143
341	2	295.43	6.5	0	4	-0.907738095
341	3	293.01	5.45	0	4	-0.863095238
341	4	298.13	6.63	0	4	-0.912698413
341	5	302.32	5.57	0	4	-0.907738095
341	6	289.07	5.89	0	4	-0.91765873
341	7	285.05	5.47	0	4	-0.932539683
341	8	305.82	6.04	0	4	-1.185515873
341	9	302.9	6.49	0	4	-1.374007937
341	10	307.58	5.98	0	3	-1.547619048
341	11	301.01	5.16	0	3	-1.607142857
341	12	281.49	5.16	0	3	-1.607142857
341	13	275.71	4.18	0	4	-1.458333333
341	14	284.08	5.41	0	4	-1.378968254
341	15	273.78	5.01	0	4	-1.165674603
341	16	213.28	3.59	0	4	-0.853174603
341	17	195.38	3.83	0	4	-0.625
341	18	192.9	4.41	0	4	-0.649801587
341	19	191.81	3.59	0	5	-0.491071429

341	20	186.37	4.79	0	5	-0.466269841
341	21	185.03	3.69	0	4	-0.515873016
341	22	184.45	3.24	0	5	-0.451388889
341	23	176.11	3.56	0	5	-0.33234127
342	0	168.62	2.99	0	5	-0.178571429
342	1	154.74	2.22	0	5	-0.357142857
342	2	187.07	5.77	0	4	-0.823412698
342	3	188.54	5.43	0	4	-0.907738095
342	4	192.41	5.44	0	4	-0.912698413
342	5	191.82	5.85	0	4	-0.89781746
342	6	212.9	4.49	0	4	-0.887896825
342	7	252.86	6.25	0	4	-1.011904762
342	8	257.07	5.67	0	4	-1.061507937
342	9	269.46	5.67	0	4	-1.23015873
342	10	284.94	7.34	0	4	-1.364087302
342	11	278	7.61	0	4	-1.468253968
342	12	309.92	7.05	0	4	-1.354166667
342	13	313.19	6.9	0	4	-1.170634921
342	14	285.95	8.1	0	4	-1.28968254
342	15	316.44	6.78	0	4	-1.23015873
342	16	321.63	5.71	0	4	-0.982142857
342	17	304.01	4.3	0	4	-0.818452381
342	18	314.59	4.16	0	4	-0.828373016
342	19	304.74	3.72	0	4	-0.778769841
342	20	311.64	3.71	0	4	-0.87797619
342	21	306.68	3.23	0	4	-0.932539683
342	22	307.15	2.93	0	4	-0.868055556
342	23	4.68	2.36	0	4	-0.882936508
343	0	25.4	3.32	0	4	-0.922619048
343	1	98.38	2.1	0	4	-0.838293651
343	2	93.6	2.33	0	4	-0.9375
343	3	71.78	2.99	0	4	-1.021825397
343	4	72.7	2.43	0	4	-0.987103175
343	5	80.2	2.06	0	4	-0.838293651
343	6	44.1	3.22	0	4	-0.763888889
343	7	38.92	4.42	0	4	-0.952380952
343	8	36.2	4.78	0	4	-0.912698413
343	9	29.71	4.4	0	4	-0.947420635
343	10	26.79	4.81	0	4	-1.006944444
343	11	24.74	5.75	0	4	-1.026785714
343	12	16.68	4.83	0	4	-1.101190476
343	13	11.08	5.11	0	4	-1.091269841
343	14	20.29	4.14	0	4	-1.056547619
343	15	18.32	4.31	0	4	-1.041666667
343	16	37.77	4.42	0	4	-0.942460317
343	17	5.39	3.9	0	4	-0.972222222
343	18	36.4	4.56	0	4	-0.922619048
343	19	6.39	4.79	0	4	-0.987103175
343	20	5.15	4.76	0	4	-0.99702381

343	21	26.71	4.01	0	4	-0.892857143
343	22	64.37	2.97	0	4	-0.58531746
343	23	24.49	3.68	0	4	-0.892857143
344	0	83.22	2.23	0	5	-0.481150794
344	1	102.81	2.26	0	5	-0.248015873
344	2	352.08	3.28	0	4	-0.674603175
344	3	271.26	4.64	0	5	-0.238095238
344	4	287.61	5.01	0	4	-0.734126984
344	5	288.95	3.68	0	4	-0.704365079
344	6	323.66	4	0	4	-0.689484127
344	7	68.83	2.79	0	5	0.982142857
344	8	60.21	3.46	0	5	0.297619048
344	9	354.59	7.16	0	4	-1.011904762
344	10	2.68	7.72	0	4	-1.225198413
344	11	4.92	7.41	0	4	-1.279761905
344	12	0.68	6.07	0	4	-1.319444444
344	13	35.78	6.37	0	4	-1.170634921
344	14	40.87	5.89	0	4	-1.140873016
344	15	21.33	3.83	0	4	-1.006944444
344	16	64.17	2.67	0	4	-0.749007937
344	17	69.7	2.47	0	4	-0.575396825
344	18	41.93	3.1	0	5	-0.064484127
344	19	24.72	4.16	0	5	0.208333333
344	20	32.37	5.79	0	5	0.381944444
344	21	37.47	5.25	0	5	0.342261905
344	22	29.34	3.45	0	5	0.203373016
344	23	13.72	3.35	0	5	0.03968254
345	0	45.19	3.1	0	5	0.386904762
345	1	33.75	3.87	0	5	0.873015873
345	2	31.42	4	0	5	1.116071429
345	3	28.3	4.25	0	5	1.279761905
345	4	41.88	4.76	0	5	1.279761905
345	5	37.82	5.39	0	5	1.334325397
345	6	44.25	4.26	0	5	1.180555556
345	7	37.4	3.38	0	5	1.116071429
345	8	41.34	3.59	0	5	0.441468254
345	9	28.77	3.89	0	4	-0.575396825
345	10	25.69	2.56	0	4	-0.868055556
345	11	355.16	2.92	0	4	-0.967261905
345	12	340.82	2.57	0	4	-0.907738095
345	13	340.53	2.95	0	4	-0.828373016
345	14	354.96	2.31	0	4	-0.927579365
345	15	22.96	2.14	0	4	-0.87797619
345	16	23.02	2.16	0	4	-0.744047619
345	17	30.08	2.08	0	4	-0.510912698
345	18	35.6	4.15	0	5	-0.446428571
345	19	37.99	4.08	0	5	-0.337301587
345	20	43.87	4.27	0	5	-0.05952381
345	21	64.25	2.71	0	5	0.05952381

345	22	74.2	1.69	0	5	0.287698413
345	23	72.03	1.65	0	5	0.505952381
346	0	76.41	1.63	0	5	0.223214286
346	1	60.59	2.19	0	5	-0.074404762
346	2	40.71	2.85	0	5	-0.188492063
346	3	39.99	5.88	0	5	-0.079365079
346	4	35.88	4.28	0	5	0.049603175
346	5	25.99	2.77	0	5	0.689484127
346	6	76.19	2.07	0	6	1.770833333
346	7	114.15	1.85	0	5	1.066468254
346	8	118.87	1.91	0	5	-0.193452381
346	9	77.95	2.94	0	4	-0.550595238
346	10	14.94	3.85	0	4	-0.887896825
346	11	34.61	5.2	0	4	-1.081349206
346	12	57.73	4.13	0	4	-1.215277778
346	13	63.47	3	0	4	-1.339285714
346	14	149.25	2.93	0	4	-1.28968254
346	15	191.33	2.5	0	4	-1.101190476
346	16	123.84	1.98	0	4	-0.610119048
346	17	42.42	2.92	0	5	-0.262896825
346	18	42.82	4.23	0	5	-0.426587302
346	19	78.32	2.37	0	5	-0.198412698
346	20	111.94	1.46	0	5	-0.138888889
346	21	98.93	1.51	0	5	-0.37202381
346	22	210.85	2.41	0	5	-0.119047619
346	23	197.41	2.56	0	5	0.178571429
347	0	303.45	1.62	0	5	0.124007937
347	1	163.78	2.36	0	5	0.758928571
347	2	169.63	10.31	0	5	-0.183531746
347	3	173.59	10.2	0	5	-0.421626984
347	4	183.72	12.12	0	4	-0.580357143
347	5	189.8	12.14	0	4	-0.560515873
347	6	193.27	12.96	0	4	-0.639880952
347	7	200.16	11.41	0	5	-0.421626984
347	8	235.6	15.26	0	4	-0.679563492
347	9	262.65	16.28	0	4	-0.813492063
347	10	262.67	14.36	0	4	-0.952380952
347	11	270.06	13.25	0	4	-1.096230159
347	12	295.32	14.26	0	4	-1.245039683
347	13	310.16	12.07	0	4	-1.334325397
347	14	316.46	11.86	0	4	-1.274801587
347	15	315.79	11.4	0	4	-1.195436508
347	16	310.08	10.52	0	4	-1.026785714
347	17	309.55	10.39	0	4	-1.011904762
347	18	313.4	9.43	0	4	-1.016865079
347	19	305.93	12.98	0	4	-1.116071429
347	20	315.01	10.17	0	4	-1.051587302
347	21	323.08	7.47	0	4	-1.046626984
347	22	325.4	5.94	0	4	-1.006944444

347	23	309.78	6.34	0	4	-0.932539683
348	0	325.36	6.4	0	4	-0.982142857
348	1	325.19	4.6	0	4	-0.932539683
348	2	320.06	5.41	0	4	-1.026785714
348	3	323.34	4.85	0	4	-0.942460317
348	4	344.51	3.48	0	4	-0.873015873
348	5	347.38	3.79	0	4	-0.89781746
348	6	348.45	4.39	0	4	-0.947420635
348	7	357.26	3.57	0	4	-0.967261905
348	8	357.35	4.66	0	4	-1.180555556
348	9	14.14	5.65	0	4	-1.220238095
348	10	15.3	5.33	0	4	-1.240079365
348	11	0.1	5.12	0	4	-1.428571429
348	12	16.36	6.13	0	4	-1.374007937
348	13	7.31	5.15	0	4	-1.30952381
348	14	7.43	4.21	0	4	-1.175595238
348	15	359.57	3.19	0	4	-1.066468254
348	16	20.43	3.32	0	4	-0.99702381
348	17	44.58	2.16	0	4	-0.962301587
348	18	24.45	1.24	0	4	-0.873015873
348	19	46.43	3.24	0	4	-0.892857143
348	20	58.8	3.61	0	4	-0.892857143
348	21	138.55	2.65	0	4	-0.659722222
348	22	119.16	2.02	0	5	-0.496031746
348	23	136.29	2.12	0	4	-0.530753968
349	0	123.98	1.94	0	4	-0.808531746
349	1	15.89	2.41	0	4	-0.773809524
349	2	13.99	4.09	0.02	4	-0.863095238
349	3	3.62	4.43	0.11	4	-0.788690476
349	4	359.73	4.07	0.03	4	-0.625
349	5	357.44	5.68	0.14	4	-0.833333333
349	6	12.22	6.14	0.23	4	-0.89781746
349	7	14.94	4.98	0.17	4	-0.68452381
349	8	357.88	4.44	0	4	-0.68452381
349	9	48.78	3.1	0	5	-0.401785714
349	10	39.98	4.17	0	5	-0.357142857
349	11	33.23	3.79	0	4	-0.803571429
349	12	76.44	3.35	0	4	-0.813492063
349	13	49.26	4.65	0	5	-0.094246032
349	14	44.7	4.56	0	5	1.041666667
349	15	84.68	3.11	0	5	1.359126984
349	16	209.06	2.48	0	5	1.096230159
349	17	253.96	3.78	0	5	-0.014880952
349	18	256.89	5.36	0	5	-0.406746032
349	19	294.06	6.4	0	4	-0.763888889
349	20	311.5	8.19	0	4	-0.818452381
349	21	318.08	6.73	0	4	-0.818452381
349	22	328.76	6.89	0	4	-0.838293651
349	23	324.93	5.73	0	4	-0.833333333

350	0	331.7	6.91	0	4	-0.853174603
350	1	325.27	6.03	0	4	-0.892857143
350	2	309.33	4.93	0	4	-0.907738095
350	3	324.19	4.87	0	4	-0.843253968
350	4	330.63	4.85	0	4	-0.922619048
350	5	23.5	7.88	0	4	-0.95734127
350	6	13.47	7.54	0	4	-0.992063492
350	7	3.49	6.9	0	4	-0.992063492
350	8	8.83	7.25	0	4	-1.091269841
350	9	8.33	7.11	0	4	-1.25
350	10	6.69	7.21	0	4	-1.354166667
350	11	5.87	7.21	0	4	-1.463293651
350	12	353.8	6.16	0	4	-1.468253968
350	13	342.13	4.83	0	4	-1.418650794
350	14	344.22	4.61	0	4	-1.25
350	15	343.19	4.13	0	4	-1.056547619
350	16	5.27	3.06	0	4	-0.907738095
350	17	35.98	3.77	0	4	-0.734126984
350	18	80.58	2.82	0	5	-0.426587302
350	19	51.98	2.45	0	5	-0.441468254
350	20	51.95	3.17	0	5	-0.158730159
350	21	138.23	2	0	5	-0.25297619
350	22	81.06	2.45	0	5	-0.218253968
350	23	47.67	3.7	0	5	-0.322420635
351	0	33.74	5.1	0	4	-0.744047619
351	1	73.39	1.28	0	4	-0.68452381
351	2	53.75	2.71	0	4	-0.674603175
351	3	4.06	2	0	4	-0.783730159
351	4	30.41	2.42	0	4	-0.818452381
351	5	10.66	2.23	0	4	-0.783730159
351	6	10.53	2.84	0	4	-0.654761905
351	7	305.26	2.31	0	4	-0.714285714
351	8	16.8	4.4	0	4	-0.773809524
351	9	349.29	3.2	0	4	-0.803571429
351	10	351.01	3.14	0	4	-0.798611111
351	11	355.12	3.5	0	4	-0.580357143
351	12	338.75	2.23	0	5	-0.243055556
351	13	16.94	2.08	0	5	-0.302579365
351	14	11.63	2.16	0	5	-0.421626984
351	15	125.71	2.33	0	5	-0.33234127
351	16	351.97	2.13	0.02	5	-0.386904762
351	17	10.38	2.86	0.01	5	0.133928571
351	18	342.07	2.79	0	5	0.471230159
351	19	357.96	3.42	0	5	0.223214286
351	20	346.84	2.94	0.08	5	0.208333333
351	21	25.73	3.65	0.03	5	0.788690476
351	22	17.54	4.93	0	5	1.205357143
351	23	10.91	4.35	0	5	0.530753968
352	0	13.65	4.16	0	5	0.451388889

352	1	17.98	3.39	0	5	0.575396825
352	2	17.8	3.94	0.03	5	0.788690476
352	3	1.83	2.26	0	5	1.30952381
352	4	262.12	1.71	0	5	0.967261905
352	5	182.93	5.83	0.02	5	1.001984127
352	6	165.31	11.68	0.1	5	0.297619048
352	7	171.97	18.29	0	5	0.248015873
352	8	168.22	14.9	0.15	5	0.262896825
352	9	170.02	10.86	0.4	5	0.257936508
352	10	159.85	12.21	0.01	5	0.223214286
352	11	164.55	15.24	0.07	5	0.307539683
352	12	161.59	10.64	0.54	5	0.386904762
352	13	154.55	5.3	0.07	5	0.525793651
352	14	186.82	8.06	0	5	0.153769841
352	15	173.29	8.03	0.01	5	-0.084325397
352	16	158.64	5.31	0	5	-0.029761905
352	17	180.1	7.89	0	5	-0.168650794
352	18	224.25	5.96	0	5	-0.476190476
352	19	283.58	15.24	0	4	-0.803571429
352	20	287.82	13.84	0.01	4	-0.828373016
352	21	234.21	7.49	0	4	-0.768849206
352	22	240.25	9.3	0	4	-0.863095238
352	23	261.06	10.12	0	4	-0.902777778
353	0	255.62	10.62	0	4	-0.932539683
353	1	247.99	7.01	0	4	-0.912698413
353	2	221.5	7.83	0	4	-0.932539683
353	3	234.45	7.39	0	4	-0.95734127
353	4	239.45	7.11	0	4	-0.972222222
353	5	227.07	7.66	0	4	-0.9375
353	6	260.65	6.71	0	4	-0.912698413
353	7	273.1	6.8	0	4	-0.922619048
353	8	271.86	6.67	0	4	-1.081349206
353	9	307.9	7.8	0	4	-1.294642857
353	10	300.11	8.1	0	4	-1.329365079
353	11	290.05	8.72	0	4	-1.448412698
353	12	292.19	6.98	0	3	-1.58234127
353	13	291.9	6.34	0	3	-1.517857143
353	14	288.57	6.94	0	4	-1.354166667
353	15	283.85	4.75	0	4	-1.175595238
353	16	308.85	3.65	0	4	-0.907738095
353	17	292.87	3.34	0	4	-0.758928571
353	18	235.59	2.07	0	5	-0.451388889
353	19	194.58	2.49	0	5	-0.416666667
353	20	199.84	2.85	0	4	-0.620039683
353	21	117.72	2.37	0	5	-0.33234127
353	22	116.61	1.76	0	5	-0.431547619
353	23	65.11	1.95	0	5	-0.3125
354	0	12.09	2.1	0	5	0.143849206
354	1	41.3	2.53	0	5	0.456349206

354	2	4.44	2.65	0	5	0.297619048
354	3	47.59	2.89	0	5	0.64484127
354	4	39.58	4.37	0	5	0.679563492
354	5	47.81	3.08	0	5	0.074404762
354	6	38.89	2.48	0	5	-0.114087302
354	7	16.43	2.97	0	4	-0.595238095
354	8	71.45	1.52	0	4	-0.813492063
354	9	166.5	1.46	0	4	-1.061507937
354	10	209.46	2.21	0	4	-1.086309524
354	11	131.47	1.82	0	4	-1.041666667
354	12	344.96	2.01	0	4	-0.962301587
354	13	358.89	3.19	0	4	-0.922619048
354	14	355.84	2.73	0	4	-0.952380952
354	15	353.17	3.55	0	4	-0.724206349
354	16	12.17	4.93	0	4	-0.828373016
354	17	18.29	5.16	0	4	-0.843253968
354	18	10.1	6.23	0	4	-0.848214286
354	19	10.39	6.23	0	4	-0.828373016
354	20	10.78	7.14	0	4	-0.907738095
354	21	13.52	7.16	0	4	-0.95734127
354	22	9.38	8.49	0	4	-0.95734127
354	23	8.47	9.72	0	4	-0.962301587
355	0	11.67	10.72	0	4	-0.987103175
355	1	355.36	9.19	0	4	-0.947420635
355	2	0.33	7.47	0	4	-0.758928571
355	3	6.11	4.96	0.01	4	-0.744047619
355	4	346.04	6.06	0	4	-0.729166667
355	5	337.48	7.43	0	4	-0.858134921
355	6	326.52	5.3	0	4	-0.863095238
355	7	313.75	7.37	0	4	-0.962301587
355	8	294.36	8.63	0	4	-1.006944444
355	9	296.17	9.45	0	4	-1.225198413
355	10	295.77	8.36	0	4	-1.354166667
355	11	288.43	10.36	0	4	-1.359126984
355	12	291.04	9.92	0	4	-1.433531746
355	13	295.83	10.66	0	4	-1.339285714
355	14	306.79	8.77	0	4	-1.344246032
355	15	309.33	9.43	0	4	-1.185515873
355	16	300.33	8.57	0	4	-1.021825397
355	17	301.54	6.46	0	4	-0.892857143
355	18	303.68	6.52	0	4	-0.907738095
355	19	277.42	5.12	0	4	-0.818452381
355	20	261.68	3.8	0	4	-0.808531746
355	21	264.34	3.96	0	4	-0.773809524
355	22	279.69	4.94	0	4	-0.818452381
355	23	304.18	7.09	0	4	-0.922619048
356	0	314.71	3.41	0	4	-0.833333333
356	1	264.44	3.36	0	4	-0.798611111
356	2	141.39	2.36	0	4	-0.56547619

356	3	333.85	3.11	0	4	-0.719246032
356	4	31.07	3.96	0	4	-0.639880952
356	5	33.76	4	0	5	0.014880952
356	6	54.89	3.63	0	5	0.163690476
356	7	43.35	2.28	0	5	-0.228174603
356	8	46.38	2.65	0	4	-0.679563492
356	9	10.97	2.77	0	4	-0.95734127
356	10	222.76	2.82	0	4	-1.150793651
356	11	172.94	4.15	0	4	-1.388888889
356	12	173.6	3.64	0	4	-1.354166667
356	13	177.36	4.56	0	4	-1.314484127
356	14	166.92	5.22	0	4	-1.369047619
356	15	168.37	5.16	0	4	-1.175595238
356	16	175.79	6.23	0	4	-0.892857143
356	17	168.14	5.8	0	4	-0.808531746
356	18	189.47	5.73	0	4	-0.783730159
356	19	194.99	2.67	0	4	-0.64484127
356	20	193.28	2.64	0	4	-0.560515873
356	21	190.88	5.32	0	4	-0.778769841
356	22	196.26	3.19	0	4	-0.863095238
356	23	175.54	3.73	0	4	-0.823412698
357	0	179.96	3.23	0	4	-0.843253968
357	1	166.58	1.91	0	4	-0.803571429
357	2	132.46	1.85	0	4	-0.793650794
357	3	145.52	1.99	0	4	-0.729166667
357	4	219.94	2.64	0	4	-0.99702381
357	5	207.47	1.98	0	4	-0.947420635
357	6	197.18	2.63	0	4	-0.927579365
357	7	180.14	3.08	0	4	-0.95734127
357	8	201.04	2.81	0	4	-1.036706349
357	9	234.19	1.93	0	4	-1.016865079
357	10	26.6	2.3	0	4	-1.026785714
357	11	29.7	2.12	0	4	-1.046626984
357	12	328.36	1.91	0	4	-0.942460317
357	13	250.08	1.8	0	4	-0.873015873
357	14	286.54	3.31	0	4	-0.962301587
357	15	318.73	4.16	0	4	-0.947420635
357	16	286.91	5	0	4	-0.907738095
357	17	279.98	4.21	0	4	-0.873015873
357	18	289.4	6.7	0	4	-0.912698413
357	19	301.8	9.42	0	4	-1.016865079
357	20	313.24	10.31	0	4	-1.091269841
357	21	325.28	10.42	0	4	-1.041666667
357	22	316.19	9.32	0	4	-1.086309524
357	23	306.37	9.84	0	4	-1.101190476
358	0	314.23	11.11	0	4	-1.155753968
358	1	315.36	11.5	0	4	-1.150793651
358	2	295.76	9.25	0	4	-1.056547619
358	3	320.61	4.62	0	4	-0.97718254

358	4	303.38	4.46	0	4	-0.912698413
358	5	317.27	4.71	0	4	-0.972222222
358	6	341.99	4.85	0	4	-0.932539683
358	7	355.75	4.65	0	4	-0.922619048
358	8	319.57	6.22	0	4	-1.116071429
358	9	317.39	7.12	0	4	-1.279761905
358	10	308.12	6.22	0	4	-1.443452381
358	11	304.44	5.64	0	4	-1.468253968
358	12	290.85	6.39	0	3	-1.512896825
358	13	282.42	7.06	0	4	-1.413690476
358	14	293.97	7.49	0	4	-1.329365079
358	15	307.12	6.71	0	4	-1.125992063
358	16	283.52	3.4	0	4	-0.887896825
358	17	252.82	2.95	0	4	-0.68452381
358	18	231.61	4.09	0	4	-0.704365079
358	19	235.52	2.8	0	4	-0.783730159
358	20	274.84	2.36	0	4	-0.773809524
358	21	257.48	2.05	0	4	-0.704365079
358	22	168.16	2.37	0	5	-0.496031746
358	23	233.88	3.49	0	5	-0.307539683
359	0	255.58	3.41	0	5	-0.421626984
359	1	180.66	3	0	5	-0.153769841
359	2	156.81	2.55	0	5	-0.287698413
359	3	87.46	2.29	0	5	-0.114087302
359	4	99.67	2.23	0	5	-0.014880952
359	5	353.48	1.77	0	5	-0.05952381
359	6	28.6	2.55	0	5	0.233134921
359	7	27.75	2.36	0	5	0.550595238
359	8	5.5	2.12	0	5	0.342261905
359	9	211.65	2.16	0	4	-0.907738095
359	10	179.27	4.91	0	4	-1.354166667
359	11	172.97	6.8	0	4	-1.329365079
359	12	187.31	6.81	0	4	-1.314484127
359	13	191.09	8.06	0	4	-1.235119048
359	14	188.34	6.06	0	4	-1.284722222
359	15	184.49	6.42	0	4	-1.081349206
359	16	189.82	6.68	0	4	-0.803571429
359	17	192.37	4.32	0	4	-0.744047619
359	18	191.58	4.76	0	5	-0.436507937
359	19	182.4	5.37	0	5	-0.257936508
359	20	181.57	3.72	0	5	0.049603175
359	21	184.95	3.11	0	5	0.396825397
359	22	296.66	3.9	0	4	-0.515873016
359	23	284.08	3.85	0	4	-0.773809524
360	0	287	5.84	0	4	-0.734126984
360	1	302.08	7.32	0	4	-0.848214286
360	2	298.95	5.03	0	4	-0.833333333
360	3	294.21	7.05	0	4	-0.853174603
360	4	301.16	7.05	0	4	-0.873015873

360	5	295.72	8.8	0	4	-0.91765873
360	6	313.91	9.89	0	4	-0.952380952
360	7	319.93	9.85	0	4	-1.026785714
360	8	327.24	8.89	0	4	-1.101190476
360	9	346.7	10.57	0	4	-1.225198413
360	10	324.87	9.17	0	4	-1.334325397
360	11	330.09	10.42	0	4	-1.359126984
360	12	328.27	10.89	0	4	-1.254960317
360	13	329.48	9.93	0	4	-1.319444444
360	14	323.52	9.38	0	4	-1.374007937
360	15	330.29	9.22	0	4	-1.180555556
360	16	334.79	8.84	0	4	-1.051587302
360	17	314.68	7.06	0	4	-0.992063492
360	18	311.04	7.14	0	4	-0.97718254
360	19	333.76	7.02	0	4	-0.97718254
360	20	318.56	7.07	0	4	-0.972222222
360	21	304.74	8.12	0	4	-0.972222222
360	22	299.9	7.57	0	4	-0.932539683
360	23	292.4	7.11	0	4	-0.907738095
361	0	294.26	7.44	0	4	-0.89781746
361	1	299.55	7.24	0	4	-0.922619048
361	2	296.9	6.46	0	4	-0.882936508
361	3	292.89	7.17	0	4	-0.833333333
361	4	294.82	7.56	0	4	-0.843253968
361	5	291.27	5.9	0	4	-0.858134921
361	6	291.15	6.05	0	4	-0.798611111
361	7	273.7	6.31	0	4	-0.818452381
361	8	283.96	6.9	0	4	-1.001984127
361	9	281.47	6.19	0	4	-1.259920635
361	10	303.1	5.75	0	4	-1.393849206
361	11	313.64	7.41	0	4	-1.324404762
361	12	314.21	7.79	0	4	-1.349206349
361	13	308.01	9.66	0	4	-1.319444444
361	14	310.82	10.58	0	4	-1.215277778
361	15	311.31	8.93	0	4	-1.140873016
361	16	299.29	8.61	0	4	-0.922619048
361	17	303.11	9.27	0	4	-0.89781746
361	18	308.9	9.29	0	4	-0.89781746
361	19	308.64	6.95	0	4	-0.838293651
361	20	307.3	6.75	0	4	-0.818452381
361	21	310.75	6.92	0	4	-0.848214286
361	22	310.39	8.35	0	4	-0.853174603
361	23	296.7	6.86	0	4	-0.818452381
362	0	298.39	7.13	0	4	-0.798611111
362	1	287.93	6.22	0	4	-0.788690476
362	2	297.12	6.33	0	4	-0.808531746
362	3	309.94	7.26	0	4	-0.818452381
362	4	307.88	5.83	0	4	-0.818452381
362	5	316.75	5.77	0	4	-0.848214286

362	6	329.81	5.16	0	4	-0.828373016
362	7	305.21	4.14	0	4	-0.932539683
362	8	334.79	4.16	0	4	-1.011904762
362	9	286.54	4.43	0	4	-1.076388889
362	10	316.05	5.37	0	4	-1.378968254
362	11	300.47	6.85	0	3	-1.512896825
362	12	296.4	9.05	0	3	-1.50297619
362	13	306.3	7.41	0	3	-1.50297619
362	14	307.99	8.41	0	4	-1.26984127
362	15	312.58	6.16	0	4	-1.175595238
362	16	296.84	5.77	0	4	-0.947420635
362	17	291.9	5.08	0	4	-0.838293651
362	18	286.54	4.86	0	4	-0.858134921
362	19	286.94	4.92	0	4	-0.763888889
362	20	295.21	5	0	4	-0.868055556
362	21	304.77	4.67	0	4	-0.927579365
362	22	282.56	4.24	0	4	-0.922619048
362	23	305.12	5.04	0	4	-1.006944444
363	0	302.79	5.62	0	4	-1.016865079
363	1	303.75	4.16	0	4	-0.952380952
363	2	312.93	4.57	0	4	-0.987103175
363	3	312.35	5.65	0	4	-1.021825397
363	4	300.95	7.67	0	4	-1.066468254
363	5	301.98	7.31	0	4	-1.041666667
363	6	296.35	6.97	0	4	-0.97718254
363	7	297.83	6.93	0	4	-0.992063492
363	8	301.8	8.4	0	4	-1.185515873
363	9	300.43	9.9	0	4	-1.453373016
363	10	305.71	10.12	0	3	-1.597222222
363	11	310.75	8.59	0	3	-1.567460317
363	12	315.77	8.89	0	3	-1.557539683
363	13	323.36	8.92	0	3	-1.517857143
363	14	321.11	8.03	0	4	-1.448412698
363	15	325.98	7.49	0	4	-1.28968254
363	16	333.68	8.01	0	4	-1.036706349
363	17	338.86	7.08	0	4	-0.992063492
363	18	343.82	6.84	0	4	-0.992063492
363	19	351.15	7.32	0	4	-1.036706349
363	20	338.9	6.74	0	4	-1.041666667
363	21	7.74	6.43	0	4	-1.031746032
363	22	353	7.81	0	4	-1.016865079
363	23	350.82	7.63	0	4	-1.026785714
364	0	345.46	7.17	0	4	-1.056547619
364	1	353.18	7.66	0	4	-1.051587302
364	2	0.18	5	0	4	-0.967261905
364	3	6.67	7.04	0	4	-0.99702381
364	4	10.94	7.94	0	4	-1.036706349
364	5	7.99	9.85	0	4	-1.071428571
364	6	10.19	9.07	0	4	-1.001984127

364	7	7.03	8.35	0	4	-1.021825397
364	8	359.88	8.61	0	4	-1.106150794
364	9	4.56	7.47	0	4	-1.264880952
364	10	7.52	6.83	0	4	-1.403769841
364	11	5.03	7	0	4	-1.473214286
364	12	351.52	5.94	0	4	-1.423611111
364	13	4.49	7.06	0	4	-1.478174603
364	14	9.24	6.78	0	4	-1.374007937
364	15	11.86	6.46	0	4	-1.175595238
364	16	8.94	4.99	0	4	-1.036706349
364	17	12.41	5.14	0	4	-0.99702381
364	18	8.95	6.11	0	4	-0.99702381
364	19	10.06	7.54	0	4	-1.051587302
364	20	9.2	7.34	0	4	-1.071428571
364	21	2.49	5.21	0	4	-1.041666667
364	22	18.15	6.87	0	4	-1.051587302
364	23	26.59	4.28	0	4	-0.9375
365	0	34.67	5.2	0	4	-0.763888889
365	1	30.41	7.81	0	4	-0.674603175
365	2	20.75	7.82	0	4	-0.95734127
365	3	12.37	6.05	0	4	-0.987103175
365	4	15.96	5.94	0	4	-1.036706349
365	5	18.52	6.39	0	4	-0.952380952
365	6	6.94	6.89	0.05	4	-0.753968254
365	7	10.29	10.05	0.04	4	-0.66468254
365	8	13.89	12.39	0.03	4	-0.89781746
365	9	15.96	12.74	0.05	4	-0.902777778
365	10	13.64	12.25	0.06	4	-0.942460317
365	11	8.43	9.87	0.07	4	-0.818452381
365	12	1.79	10.99	0.12	5	-0.436507937
365	13	3.27	10.11	0.1	5	-0.228174603
365	14	5.94	8.13	0.06	4	-0.778769841
365	15	3.24	7.87	0.03	4	-0.66468254
365	16	344.3	9.62	0.04	4	-0.600198413
365	17	343.38	8.48	0.01	4	-0.694444444
365	18	343.76	6.47	0.01	4	-0.808531746
365	19	301.79	6.03	0	4	-0.97718254
365	20	296.8	7.23	0	4	-0.992063492
365	21	291.24	7.94	0	4	-0.932539683
365	22	290.82	10.17	0	4	-0.927579365
365	23	283.47	9.99	0	4	-0.858134921
366	0	285.89	10.71	0	4	-0.882936508
366	1	286.91	13.08	0	4	-0.91765873
366	2	283.21	10.44	0	4	-0.922619048
366	3	287.26	9.64	0	4	-0.902777778
366	4	288.1	9.95	0	4	-0.843253968
366	5	282.16	8.7	0	4	-0.798611111
366	6	295.38	6.42	0	4	-0.833333333
366	7	268.97	5.74	0	4	-0.863095238

366	8	275.29	5.8	0	4	-0.972222222
366	9	283	8.32	0	4	-1.026785714
366	10	291.05	8.53	0	4	-1.165674603
366	11	294.38	10.43	0	4	-1.150793651
366	12	292.08	9.4	0	4	-1.21031746
366	13	293.46	9.27	0	4	-1.240079365
366	14	290.56	8.5	0	4	-1.21031746
366	15	294.91	7.83	0	4	-0.992063492
366	16	296.28	6.83	0	4	-0.838293651
366	17	306.36	7.97	0	4	-0.783730159
366	18	298.79	6.4	0	4	-0.823412698
366	19	330.22	7.05	0	4	-0.873015873
366	20	309.91	7.03	0	4	-0.863095238
366	21	308.8	7.57	0	4	-0.873015873
366	22	316.29	6.05	0	4	-0.853174603
366	23	325.11	6.18	0	4	-0.823412698

Day	Hour	Lower WD	**Wind Direction (towards)**	Wind Speed (tenths of a m/sec)	**Rounded Wind Speed**	**Stability Class**	**Precipitation**
1	1	31.9	10	10	10	5	0
1	2	29.66	10	13	13	5	0
1	3	32.77	10	20	20	5	0
1	4	96.43	13	14	14	5	0
1	5	187.2	1	8	8	5	0
1	6	175.63	1	8	8	5	0
1	7	77.97	12	8	8	5	0
1	8	218.1	3	6	6	5	0
1	9	196.86	2	14	14	4	0
1	10	202.17	2	19	19	4	0
1	11	202.34	2	16	16	4	0
1	12	183.4	1	14	14	4	0
1	13	164.35	16	11	11	4	0
1	14	300.35	6	10	10	4	0
1	15	261.9	5	12	12	5	0
1	16	246.98	4	7	7	5	0
1	17	286.28	6	6	6	5	0
1	18	204.08	2	7	7	6	0
1	19	310.33	7	8	8	6	0
1	20	348.35	8	9	9	6	0
1	21	359.94	9	12	12	6	0
1	22	9.81	9	15	15	6	0
1	23	13.56	10	16	16	6	0
1	24	46.79	11	12	12	6	0
2	1	23.84	10	15	15	6	0
2	2	25.31	10	12	12	6	0
2	3	45.45	11	8	8	6	0
2	4	95.07	13	5	5	6	0
2	5	16	10	5	5	6	0
2	6	22.82	10	5	5	5	0
2	7	3.68	9	6	6	6	0
2	8	121.78	14	5	5	5	0
2	9	32.8	10	10	10	5	0
2	10	189.69	1	13	13	5	0
2	11	176.65	1	10	10	5	0
2	12	210.97	2	11	11	5	0
2	13	232.06	3	13	13	5	0
2	14	226.42	3	16	16	5	0
2	15	171.34	1	20	20	5	0
2	16	166.86	16	25	25	5	0
2	17	167.5	16	16	16	5	0
2	18	202.79	2	11	11	5	0
2	19	190.12	1	13	13	6	0
2	20	179.05	1	13	13	6	0
2	21	279.5	5	10	10	6	0
2	22	126.36	15	9	9	6	0

2	23	162.96	16	21	21	5	0
2	24	172.88	1	35	35	5	0
3	1	171.64	1	36	36	5	0
3	2	159.96	16	25	25	5	0
3	3	166.46	16	33	33	5	0
3	4	154.5	16	23	23	5	0
3	5	151.76	16	22	22	5	0
3	6	152.14	16	14	14	5	0
3	7	169.43	1	16	16	5	0
3	8	200.1	2	12	12	5	0
3	9	179.06	1	17	17	5	0
3	10	170.53	1	13	13	5	0
3	11	181.1	1	11	11	5	0
3	12	219.38	3	14	14	5	0
3	13	195.21	2	16	16	5	0
3	14	303.64	6	10	10	5	0
3	15	13.23	10	12	12	5	0
3	16	228.19	3	8	8	5	0
3	17	103.41	14	7	7	5	0
3	18	26.96	10	15	15	5	0
3	19	16	10	12	12	5	0
3	20	38.67	11	9	9	5	0
3	21	357.23	9	9	9	5	0
3	22	116.33	14	9	9	5	0
3	23	21.45	10	8	8	5	0
3	24	171.92	1	13	13	5	0
4	1	178.66	1	10	10	5	0
4	2	177.18	1	9	9	5	0
4	3	230.72	3	9	9	5	0
4	4	214.57	3	6	6	5	0
4	5	225.84	3	5	5	5	0
4	6	242.13	4	5	5	5	0
4	7	153.28	16	6	6	5	0
4	8	192.9	2	9	9	5	0
4	9	186.74	1	16	16	5	0
4	10	182.9	1	26	26	5	0
4	11	190.75	1	23	23	5	0
4	12	164.3	16	33	33	5	0
4	13	155.71	16	35	35	5	0
4	14	158.67	16	31	31	5	0
4	15	155.51	16	25	25	5	0
4	16	157.96	16	24	24	5	0
4	17	156.67	16	29	29	5	0
4	18	207.54	2	29	29	5	17
4	19	313.98	7	31	31	4	4
4	20	358.58	9	19	19	4	3
4	21	237.78	4	15	15	5	7
4	22	217.27	3	14	14	5	2
4	23	289.1	6	28	28	5	4

4	24	321.07	7	23	23	4	1
5	1	338.45	8	29	29	4	0
5	2	323.55	7	35	35	4	0
5	3	306.85	7	34	34	4	0
5	4	324.7	7	31	31	4	0
5	5	318.64	7	36	36	4	0
5	6	308.7	7	37	37	4	0
5	7	313.41	7	33	33	4	0
5	8	310.99	7	32	32	4	0
5	9	317.97	7	36	36	4	0
5	10	321.13	7	44	44	4	0
5	11	322.17	7	43	43	4	0
5	12	320.97	7	47	47	4	0
5	13	328.56	8	44	44	4	0
5	14	317.74	7	45	45	4	0
5	15	314.41	7	37	37	4	0
5	16	313.8	7	42	42	4	0
5	17	336.86	8	35	35	4	0
5	18	322.22	7	30	30	4	0
5	19	322.52	7	24	24	4	0
5	20	326.63	8	27	27	4	0
5	21	318.15	7	20	20	4	0
5	22	316.53	7	20	20	4	0
5	23	335.01	8	19	19	4	0
5	24	18.76	10	19	19	4	0
6	1	19.38	10	26	26	4	0
6	2	32.77	10	14	14	4	0
6	3	72	12	13	13	5	0
6	4	29.32	10	15	15	5	0
6	5	23.73	10	15	15	5	0
6	6	40.17	11	14	14	5	0
6	7	54.4	11	15	15	5	0
6	8	27.57	10	11	11	5	0
6	9	42.89	11	16	16	5	0
6	10	144	15	11	11	4	0
6	11	255.74	4	14	14	4	0
6	12	180.09	1	22	22	4	0
6	13	166.57	16	32	32	4	0
6	14	158.49	16	27	27	4	0
6	15	157.65	16	31	31	4	0
6	16	159.93	16	32	32	4	0
6	17	160.85	16	29	29	4	0
6	18	163.23	16	23	23	5	0
6	19	171.84	1	11	11	5	0
6	20	29.02	10	7	7	5	0
6	21	163.43	16	6	6	5	0
6	22	56.01	11	9	9	6	0
6	23	38.19	11	9	9	5	0
6	24	8.23	9	8	8	5	0

7	1	8.73	9	9	9	5	0
7	2	4.19	9	11	11	5	0
7	3	9.75	9	7	7	5	0
7	4	356.31	9	6	6	5	0
7	5	91.05	13	5	5	5	0
7	6	12.42	10	5	5	5	0
7	7	10.04	9	7	7	5	0
7	8	359.6	9	5	5	5	0
7	9	32.78	10	4	4	5	0
7	10	326.6	8	4	4	5	0
7	11	196.71	2	12	12	4	0
7	12	137.35	15	9	9	4	0
7	13	222.1	3	13	13	4	0
7	14	190.27	1	17	17	4	0
7	15	230.16	3	19	19	5	0
7	16	285.36	6	51	51	4	0
7	17	286.47	6	52	52	4	0
7	18	301.09	6	39	39	4	0
7	19	298.87	6	35	35	4	0
7	20	296.29	6	28	28	4	0
7	21	289.69	6	21	21	4	0
7	22	313.51	7	18	18	4	0
7	23	300.99	6	32	32	4	0
7	24	314.45	7	32	32	4	0
8	1	310.08	7	22	22	4	0
8	2	281.48	6	23	23	4	0
8	3	288.04	6	26	26	4	0
8	4	294.56	6	22	22	4	0
8	5	312.59	7	27	27	4	0
8	6	313.5	7	27	27	4	0
8	7	301.8	6	27	27	4	0
8	8	281.44	6	24	24	4	0
8	9	288.7	6	25	25	4	0
8	10	299.65	6	25	25	4	0
8	11	296.12	6	24	24	4	0
8	12	291.88	6	19	19	4	0
8	13	247.5	4	24	24	4	0
8	14	230.47	3	20	20	4	0
8	15	182.63	1	22	22	4	0
8	16	181.91	1	28	28	4	0
8	17	186.24	1	33	33	4	0
8	18	184.25	1	34	34	4	0
8	19	181.08	1	26	26	5	0
8	20	172.24	1	21	21	5	0
8	21	179.48	1	23	23	4	0
8	22	182.54	1	18	18	4	0
8	23	206.58	2	12	12	5	0
8	24	198.37	2	12	12	5	0
9	1	190.06	1	15	15	5	0

9	2	193.76	2	14	14	5	0
9	3	186.69	1	13	13	5	0
9	4	184.47	1	17	17	4	0
9	5	206.92	2	8	8	5	0
9	6	305.85	7	7	7	5	0
9	7	287.55	6	5	5	5	0
9	8	352.32	9	7	7	5	0
9	9	26.88	10	9	9	5	0
9	10	337.04	8	8	8	4	0
9	11	181.52	1	19	19	4	0
9	12	192.08	2	16	16	4	0
9	13	275.16	5	12	12	5	0
9	14	289.6	6	14	14	5	0
9	15	185.84	1	18	18	5	0
9	16	159.32	16	14	14	4	0
9	17	154.77	16	16	16	5	0
9	18	159.48	16	13	13	5	0
9	19	288.54	6	8	8	5	0
9	20	283.56	6	8	8	5	0
9	21	82.5	13	9	9	5	0
9	22	12.8	10	7	7	5	0
9	23	24.63	10	16	16	5	3
9	24	179.08	1	8	8	5	0
10	1	82.09	13	8	8	5	0
10	2	14.5	10	8	8	5	0
10	3	37.73	11	9	9	5	0
10	4	11.75	10	11	11	5	0
10	5	19.96	10	10	10	5	0
10	6	3.31	9	8	8	5	0
10	7	18.91	10	12	12	5	0
10	8	112.58	14	8	8	4	0
10	9	97.61	13	10	10	4	0
10	10	111.71	14	10	10	4	0
10	11	129.21	15	13	13	4	0
10	12	109.58	14	12	12	4	0
10	13	103.71	14	18	18	4	0
10	14	96.39	13	12	12	4	16
10	15	97.4	13	27	27	4	26
10	16	92.69	13	19	19	4	33
10	17	327.62	8	15	15	5	10
10	18	269.86	5	24	24	5	3
10	19	279.86	5	34	34	4	0
10	20	231.21	3	20	20	4	0
10	21	216.45	3	25	25	5	0
10	22	231.09	3	34	34	5	0
10	23	259.17	5	50	50	4	0
10	24	255.66	4	37	37	4	0
11	1	224.33	3	31	31	5	0
11	2	193.53	2	42	42	5	0

11	3	186.42	1	39	39	5	0
11	4	180.71	1	37	37	5	0
11	5	169.37	1	28	28	5	0
11	6	170.55	1	28	28	5	0
11	7	172.3	1	21	21	5	0
11	8	167.8	16	15	15	5	0
11	9	185.9	1	11	11	5	0
11	10	179.47	1	11	11	4	0
11	11	197.01	2	38	38	4	0
11	12	216.94	3	51	51	4	0
11	13	244.96	4	48	48	4	0
11	14	257.41	4	38	38	4	0
11	15	270.9	5	42	42	4	0
11	16	294.74	6	33	33	4	0
11	17	272.71	5	26	26	4	0
11	18	270.23	5	26	26	4	0
11	19	306.34	7	44	44	4	0
11	20	292.17	6	47	47	4	0
11	21	284.84	6	35	35	4	0
11	22	279.22	5	35	35	4	0
11	23	237.84	4	20	20	4	0
11	24	260.33	5	21	21	4	0
12	1	281.87	6	32	32	4	0
12	2	297.3	6	39	39	4	0
12	3	303.5	6	47	47	4	0
12	4	300.71	6	45	45	4	0
12	5	305.47	7	41	41	4	0
12	6	307.93	7	57	57	4	0
12	7	311.46	7	45	45	4	0
12	8	306.51	7	29	29	4	0
12	9	316.45	7	29	29	4	0
12	10	312.51	7	38	38	4	0
12	11	309.48	7	52	52	4	0
12	12	309.01	7	51	51	4	0
12	13	312.12	7	40	40	4	0
12	14	309.02	7	40	40	4	0
12	15	319.58	7	32	32	4	0
12	16	313.12	7	25	25	4	0
12	17	323.72	7	22	22	4	0
12	18	329.29	8	17	17	4	0
12	19	341.59	8	18	18	4	0
12	20	356.69	9	22	22	4	0
12	21	335.56	8	16	16	4	0
12	22	313.75	7	10	10	4	0
12	23	278.45	5	10	10	5	0
12	24	281.83	6	11	11	4	0
13	1	239.71	4	13	13	4	0
13	2	324.36	7	19	19	4	0
13	3	14.08	10	16	16	4	0

13	4	32.74	10	21	21	4	0
13	5	40.78	11	16	16	4	0
13	6	87.45	13	11	11	4	0
13	7	60.38	12	17	17	4	0
13	8	30.92	10	28	28	4	0
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13	10	30.7	10	21	21	4	0
13	11	18.61	10	23	23	4	0
13	12	13.25	10	24	24	4	0
13	13	4.52	9	27	27	4	0
13	14	2.46	9	40	40	4	1
13	15	6.45	9	51	51	4	1
13	16	9.07	9	62	62	4	0
13	17	5.11	9	47	47	4	0
13	18	346.43	8	33	33	4	0
13	19	340.43	8	32	32	4	0
13	20	327.12	8	35	35	4	0
13	21	315.06	7	39	39	4	0
13	22	322.06	7	52	52	4	0
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13	24	326.01	7	54	54	4	0
14	1	325.69	7	47	47	4	0
14	2	325.83	7	46	46	4	0
14	3	324.48	7	46	46	4	0
14	4	322.03	7	49	49	4	0
14	5	333.43	8	48	48	4	0
14	6	330.38	8	45	45	4	0
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14	15	312.71	7	55	55	4	0
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14	17	322.71	7	38	38	4	0
14	18	324.74	7	40	40	4	0
14	19	330.76	8	33	33	4	0
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14	21	334.41	8	31	31	4	0
14	22	320.65	7	26	26	4	0
14	23	323.46	7	25	25	4	0
14	24	338.37	8	31	31	4	0
15	1	336.46	8	33	33	4	0
15	2	339.24	8	36	36	4	0
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15	5	321.7	7	37	37	4	0
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15	7	49.09	11	23	23	4	0
15	8	42.92	11	21	21	4	0
15	9	36.24	11	26	26	4	0
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15	11	34.06	11	12	12	4	0
15	12	201.94	2	15	15	4	0
15	13	201.23	2	18	18	4	0
15	14	188.35	1	20	20	4	0
15	15	177.72	1	13	13	4	0
15	16	204.33	2	16	16	4	0
15	17	183.09	1	9	9	4	0
15	18	128.78	15	6	6	4	0
15	19	139.64	15	8	8	5	0
15	20	122.03	14	9	9	5	0
15	21	119.39	14	9	9	5	0
15	22	191.69	2	8	8	5	0
15	23	192.03	2	10	10	5	0
15	24	161.42	16	14	14	5	0
16	1	169.27	1	14	14	5	0
16	2	169.85	1	20	20	4	0
16	3	190.43	1	29	29	4	0
16	4	179.77	1	29	29	5	0
16	5	183.73	1	34	34	4	0
16	6	187.89	1	34	34	4	0
16	7	199.39	2	24	24	5	0
16	8	194.54	2	33	33	5	0
16	9	183.05	1	46	46	4	0
16	10	185.47	1	41	41	4	0
16	11	190.83	1	36	36	4	0
16	12	171.37	1	38	38	4	0
16	13	178.6	1	30	30	4	0
16	14	247.26	4	26	26	4	0
16	15	288.73	6	36	36	4	0
16	16	296.04	6	44	44	4	0
16	17	311.68	7	64	64	4	0
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16	23	335.6	8	72	72	4	0
16	24	326.68	8	65	65	4	0
17	1	326.58	8	66	66	4	0
17	2	329.19	8	63	63	4	0
17	3	332.33	8	59	59	4	0
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17	5	328.94	8	56	56	4	0

17	6	330.11	8	56	56	4	0
17	7	323.1	7	60	60	4	0
17	8	321.02	7	62	62	4	0
17	9	325.74	7	61	61	4	0
17	10	334.84	8	44	44	4	0
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17	18	350.89	9	51	51	4	0
17	19	356.03	9	44	44	4	0
17	20	335.41	8	34	34	4	0
17	21	335.67	8	32	32	4	0
17	22	341.74	8	32	32	4	0
17	23	343.16	8	39	39	4	0
17	24	342	8	35	35	4	0
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18	3	10.67	9	34	34	4	0
18	4	12.37	10	40	40	4	0
18	5	5.15	9	41	41	4	0
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18	17	4.55	9	29	29	4	0
18	18	1.36	9	33	33	4	0
18	19	4	9	33	33	4	0
18	20	358.82	9	33	33	4	0
18	21	354.5	9	26	26	4	0
18	22	351.72	9	30	30	4	0
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18	24	354.04	9	25	25	4	0
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19	5	2.89	9	27	27	4	0
19	6	354.89	9	37	37	4	0

19	7	2.36	9	35	35	4	0
19	8	4.09	9	41	41	4	0
19	9	4.63	9	41	41	4	0
19	10	25.25	10	33	33	4	0
19	11	16.08	10	31	31	4	0
19	12	13.75	10	27	27	4	0
19	13	5.14	9	25	25	4	0
19	14	9.53	9	21	21	4	0
19	15	0.21	9	21	21	4	0
19	16	320.38	7	21	21	4	0
19	17	276.31	5	26	26	4	0
19	18	278.08	5	23	23	4	0
19	19	307.05	7	20	20	4	0
19	20	346.16	8	13	13	4	0
19	21	354.67	9	13	13	5	0
19	22	47.42	11	12	12	5	0
19	23	6.52	9	11	11	5	0
19	24	36.45	11	16	16	5	0
20	1	33.67	10	11	11	5	0
20	2	39.97	11	11	11	5	0
20	3	26.41	10	15	15	5	0
20	4	21.85	10	17	17	5	0
20	5	33.06	10	17	17	5	0
20	6	31.02	10	18	18	5	0
20	7	26.38	10	16	16	5	0
20	8	29.07	10	17	17	4	0
20	9	10.65	9	12	12	4	0
20	10	21.59	10	19	19	4	1
20	11	19.81	10	21	21	4	1
20	12	25.55	10	28	28	4	0
20	13	31.41	10	31	31	4	0
20	14	22.92	10	33	33	4	0
20	15	27.1	10	33	33	4	0
20	16	8.1	9	24	24	4	0
20	17	6.06	9	24	24	4	0
20	18	5.88	9	25	25	4	0
20	19	5.32	9	29	29	4	0
20	20	353.09	9	31	31	4	0
20	21	4.62	9	39	39	4	0
20	22	356.2	9	31	31	4	0
20	23	5.5	9	32	32	4	0
20	24	343.7	8	28	28	4	0
21	1	330.86	8	35	35	4	0
21	2	322.1	7	39	39	4	0
21	3	316.86	7	51	51	4	0
21	4	318.18	7	55	55	4	0
21	5	315.11	7	59	59	4	0
21	6	322.54	7	56	56	4	0
21	7	323.26	7	53	53	4	0

21	8	323.77	7	48	48	4	0
21	9	318.3	7	50	50	4	0
21	10	321.86	7	43	43	4	0
21	11	325.18	7	39	39	4	0
21	12	314.98	7	62	62	4	0
21	13	318.18	7	61	61	4	0
21	14	311.83	7	60	60	4	0
21	15	312.84	7	53	53	4	0
21	16	307.77	7	58	58	4	0
21	17	314.6	7	55	55	4	0
21	18	307.27	7	53	53	4	0
21	19	311.95	7	50	50	4	0
21	20	316.59	7	47	47	4	0
21	21	317.9	7	44	44	4	0
21	22	318.94	7	47	47	4	0
21	23	314.93	7	43	43	4	0
21	24	314.95	7	36	36	4	0
22	1	316.08	7	28	28	4	0
22	2	312.87	7	28	28	4	0
22	3	303.26	6	27	27	4	0
22	4	281.07	5	25	25	4	0
22	5	275.2	5	27	27	4	0
22	6	283.91	6	29	29	4	0
22	7	289.72	6	23	23	4	0
22	8	292.92	6	26	26	4	0
22	9	300.93	6	33	33	4	0
22	10	322.44	7	31	31	4	0
22	11	320.57	7	41	41	4	0
22	12	305.04	7	40	40	3	0
22	13	312.04	7	43	43	4	0
22	14	309.89	7	39	39	3	0
22	15	304.27	7	40	40	4	0
22	16	295	6	32	32	4	0
22	17	280.59	5	31	31	4	0
22	18	292.53	6	25	25	4	0
22	19	324.86	7	25	25	4	0
22	20	327.66	8	22	22	4	0
22	21	295.75	6	14	14	4	0
22	22	247.24	4	13	13	4	0
22	23	243.52	4	15	15	4	0
22	24	235.35	3	11	11	4	0
23	1	263.68	5	13	13	4	0
23	2	227.78	3	13	13	4	0
23	3	192.51	2	14	14	4	0
23	4	237.7	4	7	7	4	0
23	5	34.38	11	15	15	5	0
23	6	33.99	11	22	22	5	0
23	7	31.13	10	23	23	5	0
23	8	32.14	10	31	31	5	0

23	9	38.63	11	26	26	5	0
23	10	45.2	11	19	19	5	0
23	11	13.96	10	9	9	4	0
23	12	358.22	9	9	9	4	0
23	13	12.9	10	12	12	4	0
23	14	274.48	5	14	14	4	0
23	15	252.91	4	14	14	4	0
23	16	199.77	2	16	16	4	0
23	17	169.74	1	15	15	4	0
23	18	131	15	12	12	4	0
23	19	94.15	13	11	11	4	0
23	20	114.05	14	8	8	4	0
23	21	63.52	12	6	6	4	0
23	22	67.61	12	8	8	4	0
23	23	37.24	11	11	11	4	0
23	24	32.15	10	17	17	4	0
24	1	32.3	10	20	20	4	0
24	2	44.87	11	17	17	4	0
24	3	38.56	11	18	18	4	0
24	4	26.53	10	17	17	4	0
24	5	6.89	9	22	22	4	0
24	6	9.92	9	21	21	4	0
24	7	62.86	12	13	13	4	0
24	8	67.3	12	10	10	4	0
24	9	172.43	1	10	10	4	0
24	10	176.58	1	9	9	4	0
24	11	181.39	1	12	12	4	0
24	12	175.35	1	10	10	4	0
24	13	213.76	3	14	14	4	0
24	14	227.11	3	14	14	4	0
24	15	190.7	1	13	13	4	0
24	16	272.35	5	9	9	4	0
24	17	301.88	6	7	7	5	0
24	18	13.16	10	13	13	5	0
24	19	29.54	10	20	20	5	0
24	20	18.73	10	22	22	5	0
24	21	7.64	9	30	30	4	0
24	22	13.16	10	31	31	4	0
24	23	4.63	9	34	34	4	0
24	24	8.03	9	40	40	4	0
25	1	10.95	9	43	43	4	0
25	2	9.23	9	41	41	4	0
25	3	9.28	9	46	46	4	0
25	4	4.98	9	45	45	4	0
25	5	7.93	9	53	53	4	0
25	6	12.27	10	54	54	4	0
25	7	5.94	9	48	48	4	1
25	8	3.95	9	54	54	5	6
25	9	7.93	9	59	59	5	6

25	10	5.53	9	68	68	5	1
25	11	11.52	10	72	72	4	0
25	12	6.79	9	70	70	4	0
25	13	13.02	10	69	69	4	0
25	14	11.82	10	62	62	4	0
25	15	4.78	9	60	60	4	0
25	16	2.6	9	71	71	5	0
25	17	6.1	9	69	69	5	0
25	18	5.19	9	71	71	5	3
25	19	5.74	9	71	71	5	0
25	20	7.93	9	79	79	5	6
25	21	7.69	9	77	77	5	0
25	22	8.08	9	80	80	5	1
25	23	6.61	9	69	69	5	0
25	24	6.01	9	67	67	5	0
26	1	357.1	9	41	41	5	0
26	2	339.7	8	32	32	4	0
26	3	328.05	8	24	24	4	0
26	4	313.17	7	27	27	4	0
26	5	308.66	7	26	26	4	0
26	6	314.34	7	37	37	4	0
26	7	322.47	7	33	33	4	0
26	8	324.88	7	27	27	4	0
26	9	307.8	7	21	21	4	0
26	10	288.91	6	20	20	4	0
26	11	320.93	7	31	31	4	0
26	12	333.75	8	34	34	4	0
26	13	331.64	8	38	38	4	0
26	14	326.84	8	34	34	4	0
26	15	329.27	8	34	34	4	0
26	16	335.64	8	35	35	4	0
26	17	327.13	8	25	25	4	0
26	18	309.47	7	21	21	4	0
26	19	308.52	7	31	31	4	0
26	20	324.93	7	25	25	4	0
26	21	334.08	8	29	29	4	0
26	22	336.71	8	29	29	4	0
26	23	333.16	8	31	31	4	0
26	24	333.04	8	30	30	4	0
27	1	329.23	8	27	27	4	0
27	2	329.88	8	23	23	4	0
27	3	333.52	8	26	26	4	0
27	4	340.99	8	26	26	4	0
27	5	323.54	7	25	25	4	0
27	6	318.66	7	31	31	4	0
27	7	325.77	7	35	35	4	0
27	8	320.67	7	30	30	4	0
27	9	314.67	7	45	45	4	0
27	10	321.79	7	36	36	4	0

27	11	318.08	7	39	39	4	0
27	12	314.44	7	39	39	3	0
27	13	317.73	7	43	43	3	0
27	14	313.1	7	43	43	4	0
27	15	318.79	7	42	42	4	0
27	16	318.06	7	42	42	4	0
27	17	308.27	7	42	42	4	0
27	18	307.36	7	37	37	4	0
27	19	314.31	7	31	31	4	0
27	20	315.74	7	34	34	4	0
27	21	328.06	8	32	32	4	0
27	22	317.68	7	37	37	4	0
27	23	316.18	7	37	37	4	0
27	24	297.59	6	50	50	4	0
28	1	305.58	7	45	45	4	0
28	2	315.75	7	35	35	4	0
28	3	309.2	7	34	34	4	0
28	4	321.02	7	54	54	4	0
28	5	317.73	7	43	43	4	0
28	6	314.33	7	38	38	4	0
28	7	315.47	7	26	26	4	0
28	8	323.59	7	25	25	4	0
28	9	314.14	7	34	34	4	0
28	10	313.58	7	36	36	4	0
28	11	316.06	7	38	38	4	0
28	12	305.13	7	43	43	4	0
28	13	309.86	7	41	41	4	0
28	14	306.08	7	44	44	4	0
28	15	303.87	7	39	39	4	0
28	16	302.97	6	49	49	4	0
28	17	300.17	6	49	49	4	0
28	18	306.26	7	48	48	4	0
28	19	326.74	8	39	39	4	0
28	20	323.06	7	31	31	4	0
28	21	323.17	7	26	26	4	0
28	22	339.91	8	35	35	4	0
28	23	343.18	8	44	44	4	0
28	24	344.11	8	43	43	4	0
29	1	341.59	8	40	40	4	0
29	2	341.08	8	32	32	4	0
29	3	337.26	8	28	28	4	0
29	4	355.58	9	30	30	4	0
29	5	6.84	9	19	19	4	0
29	6	30.14	10	24	24	5	0
29	7	52.16	11	18	18	5	0
29	8	37.13	11	21	21	5	0
29	9	46.08	11	23	23	5	0
29	10	7.71	9	23	23	4	0
29	11	350.41	9	24	24	4	0

29	12	358.74	9	21	21	4	0
29	13	354.5	9	23	23	4	0
29	14	337.26	8	24	24	4	0
29	15	345.86	8	24	24	4	0
29	16	336.44	8	21	21	4	0
29	17	336.65	8	20	20	4	0
29	18	350.02	9	18	18	4	0
29	19	16.37	10	23	23	5	0
29	20	24.98	10	25	25	5	0
29	21	12.18	10	34	34	5	0
29	22	20	10	30	30	5	0
29	23	30.37	10	25	25	5	0
29	24	38.68	11	33	33	5	0
30	1	46.29	11	20	20	5	0
30	2	27.9	10	23	23	5	0
30	3	38.3	11	30	30	5	0
30	4	51.83	11	20	20	5	0
30	5	47.75	11	15	15	5	0
30	6	51.57	11	16	16	5	0
30	7	163.43	16	10	10	5	0
30	8	78.98	13	13	13	5	0
30	9	103.32	14	9	9	5	0
30	10	118.14	14	10	10	5	0
30	11	61.97	12	11	11	4	0
30	12	32.87	10	13	13	4	0
30	13	9.42	9	13	13	4	0
30	14	46.04	11	16	16	5	0
30	15	315.89	7	12	12	4	0
30	16	167.44	16	9	9	5	0
30	17	88.35	13	11	11	5	0
30	18	73.81	12	7	7	5	0
30	19	139.04	15	12	12	5	0
30	20	40.85	11	8	8	5	0
30	21	247.45	4	7	7	5	0
30	22	19.11	10	12	12	4	3
30	23	5.94	9	18	18	5	14
30	24	357.05	9	27	27	5	18
31	1	359.49	9	27	27	5	7
31	2	350.99	9	20	20	6	6
31	3	309.66	7	23	23	5	10
31	4	27.67	10	30	30	5	1
31	5	21.87	10	37	37	5	0
31	6	33.05	10	27	27	5	0
31	7	1.26	9	18	18	5	0
31	8	286.47	6	20	20	4	0
31	9	265.34	5	21	21	4	0
31	10	282.96	6	40	40	4	0
31	11	272.83	5	41	41	4	0
31	12	266.9	5	25	25	4	0

31	13	276.28	5	39	39	4	0
31	14	280.37	5	44	44	4	0
31	15	274.14	5	40	40	4	0
31	16	275.67	5	41	41	4	0
31	17	272.08	5	33	33	4	0
31	18	280.71	5	40	40	4	0
31	19	267.13	5	25	25	4	0
31	20	224.15	3	15	15	4	0
31	21	204.78	2	13	13	5	0
31	22	178.34	1	20	20	5	0
31	23	183.54	1	27	27	5	0
31	24	183.59	1	27	27	5	0
32	1	185.38	1	26	26	5	0
32	2	181.15	1	20	20	5	0
32	3	183.44	1	16	16	5	0
32	4	239.32	4	9	9	5	0
32	5	205.2	2	14	14	5	0
32	6	176.63	1	27	27	5	0
32	7	190.89	1	28	28	4	0
32	8	178.78	1	26	26	5	0
32	9	197.15	2	26	26	4	0
32	10	181.7	1	24	24	4	0
32	11	268.54	5	34	34	4	0
32	12	275.41	5	32	32	4	0
32	13	271.5	5	32	32	4	0
32	14	272.2	5	29	29	4	0
32	15	269.13	5	36	36	4	0
32	16	285.52	6	30	30	4	0
32	17	281	5	35	35	4	0
32	18	266.58	5	26	26	4	0
32	19	252.98	4	22	22	4	0
32	20	252.8	4	23	23	4	0
32	21	251.48	4	28	28	4	0
32	22	271.48	5	29	29	4	0
32	23	284.62	6	32	32	4	0
32	24	307.12	7	34	34	4	0
33	1	311.35	7	35	35	4	0
33	2	310.41	7	38	38	4	0
33	3	293.03	6	26	26	4	0
33	4	296.72	6	30	30	4	0
33	5	293.52	6	34	34	4	0
33	6	285.36	6	28	28	4	0
33	7	285.81	6	23	23	4	0
33	8	309.9	7	33	33	4	0
33	9	318.24	7	38	38	4	0
33	10	310.33	7	43	43	4	0
33	11	309.7	7	54	54	4	0
33	12	301.03	6	49	49	3	0
33	13	297	6	44	44	3	0

33	14	302.2	6	42	42	4	0
33	15	312.04	7	45	45	4	0
33	16	308.22	7	45	45	4	0
33	17	306.56	7	39	39	4	0
33	18	299.53	6	36	36	4	0
33	19	302.71	6	46	46	4	0
33	20	313.76	7	39	39	4	0
33	21	324.4	7	33	33	4	0
33	22	327.29	8	37	37	4	0
33	23	336.31	8	31	31	4	0
33	24	332.67	8	27	27	4	0
34	1	313.51	7	26	26	4	0
34	2	344.35	8	18	18	4	0
34	3	275.21	5	19	19	4	0
34	4	289.03	6	26	26	4	0
34	5	342.83	8	15	15	4	0
34	6	317.72	7	19	19	4	0
34	7	223.62	3	11	11	4	0
34	8	186.86	1	10	10	4	0
34	9	90.29	13	7	7	4	0
34	10	177.6	1	14	14	4	0
34	11	172.68	1	12	12	4	0
34	12	259.01	5	13	13	4	0
34	13	189.96	1	14	14	4	0
34	14	165.32	16	12	12	4	0
34	15	358.79	9	13	13	4	0
34	16	353.79	9	11	11	4	0
34	17	359.12	9	12	12	5	0
34	18	22.13	10	17	17	5	0
34	19	30.12	10	23	23	5	0
34	20	25.72	10	13	13	4	0
34	21	18.43	10	12	12	5	0
34	22	25.81	10	15	15	5	0
34	23	29.09	10	17	17	5	0
34	24	14.5	10	15	15	5	0
35	1	0.52	9	15	15	5	0
35	2	3.55	9	17	17	5	0
35	3	17.7	10	20	20	4	0
35	4	8.77	9	19	19	4	0
35	5	37.29	11	24	24	5	0
35	6	8.89	9	27	27	4	0
35	7	3.89	9	25	25	4	0
35	8	19.79	10	28	28	4	0
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35	10	354.19	9	21	21	4	0
35	11	359.41	9	18	18	4	0
35	12	3.62	9	16	16	4	0
35	13	14.16	10	15	15	4	0
35	14	3.87	9	18	18	4	0

35	15	7.46	9	21	21	4	0
35	16	25.13	10	15	15	4	0
35	17	35.8	11	12	12	4	0
35	18	20.33	10	10	10	4	0
35	19	13.92	10	10	10	5	0
35	20	34.97	11	19	19	5	0
35	21	38.79	11	18	18	5	0
35	22	32.69	10	23	23	5	0
35	23	49.83	11	16	16	5	0
35	24	83.77	13	10	10	5	0
36	1	43.28	11	13	13	5	0
36	2	46.37	11	18	18	5	0
36	3	67.1	12	10	10	5	0
36	4	46.12	11	15	15	5	0
36	5	58.1	12	21	21	5	0
36	6	66.93	12	15	15	5	0
36	7	343.24	8	24	24	5	0
36	8	320.91	7	36	36	4	0
36	9	330.9	8	33	33	4	0
36	10	299.1	6	27	27	4	0
36	11	312.26	7	34	34	4	0
36	12	298.33	6	33	33	4	0
36	13	291.98	6	27	27	4	0
36	14	288.5	6	30	30	4	0
36	15	273.88	5	35	35	4	0
36	16	273.98	5	29	29	4	0
36	17	264.36	5	24	24	4	0
36	18	239.81	4	8	8	4	0
36	19	202.15	2	19	19	5	0
36	20	183.92	1	29	29	5	0
36	21	192.91	2	25	25	5	0
36	22	177.46	1	27	27	5	0
36	23	173.83	1	22	22	5	0
36	24	188.62	1	18	18	5	0
37	1	247.19	4	23	23	4	0
37	2	250.92	4	21	21	4	0
37	3	260.22	5	28	28	4	0
37	4	281.19	5	34	34	4	0
37	5	334.27	8	32	32	4	0
37	6	336.98	8	39	39	4	0
37	7	330.12	8	30	30	4	0
37	8	324.52	7	36	36	4	0
37	9	322.57	7	35	35	4	0
37	10	318.3	7	39	39	4	0
37	11	310.73	7	36	36	4	0
37	12	310.59	7	28	28	4	0
37	13	309.51	7	33	33	4	0
37	14	279.02	5	34	34	4	0
37	15	281.08	5	37	37	4	0

37	16	276.57	5	35	35	4	0
37	17	270.22	5	28	28	4	0
37	18	243.72	4	14	14	4	0
37	19	242.9	4	11	11	5	0
37	20	196.89	2	12	12	5	0
37	21	190.71	1	15	15	5	0
37	22	159.04	16	16	16	5	0
37	23	162.94	16	15	15	5	0
37	24	181.96	1	22	22	5	0
38	1	178.55	1	20	20	5	0
38	2	178.05	1	32	32	5	0
38	3	176	1	35	35	4	0
38	4	180.58	1	36	36	4	0
38	5	181.06	1	30	30	4	0
38	6	171.73	1	23	23	5	0
38	7	182.85	1	13	13	5	0
38	8	200.98	2	22	22	5	0
38	9	227.53	3	21	21	4	0
38	10	261.14	5	27	27	4	0
38	11	285.87	6	29	29	4	0
38	12	291.53	6	36	36	4	0
38	13	286.14	6	39	39	4	0
38	14	280.93	5	43	43	4	0
38	15	280.07	5	41	41	4	0
38	16	296.06	6	30	30	4	0
38	17	304.84	7	37	37	4	0
38	18	305.14	7	30	30	4	0
38	19	319.6	7	32	32	4	0
38	20	318.68	7	34	34	4	0
38	21	336.86	8	32	32	4	0
38	22	329.21	8	35	35	4	0
38	23	333.06	8	41	41	4	0
38	24	330.32	8	39	39	4	0
39	1	334.68	8	36	36	4	0
39	2	343.81	8	29	29	4	0
39	3	2.57	9	30	30	4	0
39	4	20.72	10	26	26	4	0
39	5	31.61	10	27	27	4	0
39	6	14.27	10	33	33	4	0
39	7	3.28	9	30	30	4	0
39	8	53.91	11	20	20	4	0
39	9	32.97	10	20	20	4	0
39	10	26.1	10	25	25	4	0
39	11	359.66	9	23	23	4	0
39	12	5.81	9	17	17	4	0
39	13	352.02	9	15	15	4	0
39	14	39.45	11	17	17	4	0
39	15	243.81	4	13	13	4	0
39	16	167.41	16	22	22	4	0

39	17	154.12	16	18	18	4	0
39	18	150.97	16	17	17	5	0
39	19	171.83	1	21	21	5	0
39	20	188.94	1	33	33	5	0
39	21	192.96	2	29	29	5	0
39	22	198.22	2	23	23	5	0
39	23	179.17	1	16	16	5	0
39	24	185.23	1	28	28	5	0
40	1	210.16	2	16	16	5	0
40	2	191.37	2	21	21	5	0
40	3	169.58	1	19	19	5	0
40	4	179.28	1	20	20	5	0
40	5	192.58	2	12	12	5	0
40	6	213.31	2	11	11	5	0
40	7	225.46	3	11	11	5	0
40	8	223.58	3	12	12	5	0
40	9	187.77	1	19	19	5	0
40	10	171.29	1	33	33	4	0
40	11	172.02	1	38	38	4	0
40	12	185.66	1	44	44	4	0
40	13	186.57	1	48	48	4	0
40	14	183.76	1	48	48	4	0
40	15	177.27	1	45	45	4	0
40	16	179.79	1	41	41	4	0
40	17	183.17	1	34	34	4	0
40	18	174.35	1	24	24	5	0
40	19	171.75	1	20	20	5	0
40	20	216.52	3	11	11	5	0
40	21	310.16	7	8	8	5	0
40	22	246.24	4	9	9	5	0
40	23	353.32	9	9	9	6	0
40	24	10.87	9	8	8	7	0
41	1	349.68	9	12	12	6	0
41	2	24.47	10	21	21	6	0
41	3	332.75	8	9	9	7	0
41	4	16.3	10	12	12	7	0
41	5	44.57	11	27	27	7	0
41	6	49.85	11	23	23	7	0
41	7	25.78	10	15	15	6	0
41	8	28.95	10	30	30	6	0
41	9	40.79	11	19	19	6	0
41	10	28.1	10	9	9	6	0
41	11	35.13	11	11	11	5	0
41	12	350.32	9	13	13	4	0
41	13	299.92	6	13	13	4	0
41	14	250.7	4	17	17	4	0
41	15	198.68	2	16	16	4	0
41	16	173.38	1	24	24	4	0
41	17	167.84	16	18	18	5	0

41	18	179.7	1	13	13	5	0
41	19	206.55	2	10	10	5	0
41	20	191.96	2	12	12	5	0
41	21	157.3	16	10	10	5	0
41	22	319.75	7	8	8	5	0
41	23	205.7	2	7	7	5	0
41	24	160.7	16	9	9	4	0
42	1	197.66	2	6	6	4	0
42	2	194.03	2	7	7	5	0
42	3	188.74	1	5	5	5	0
42	4	193.05	2	9	9	5	0
42	5	177.16	1	10	10	5	0
42	6	197.06	2	10	10	5	0
42	7	166.01	16	8	8	5	0
42	8	145.2	15	7	7	5	0
42	9	190.41	1	5	5	5	0
42	10	138.08	15	6	6	5	0
42	11	78.61	12	5	5	5	0
42	12	248.23	4	7	7	5	0
42	13	3.74	9	8	8	5	0
42	14	254.56	4	11	11	5	0
42	15	215.1	3	13	13	5	0
42	16	214.4	3	9	9	5	0
42	17	308.7	7	32	32	4	0
42	18	300.73	6	38	38	4	0
42	19	309.52	7	45	45	4	0
42	20	320.04	7	44	44	4	0
42	21	321.91	7	43	43	4	0
42	22	326.75	8	38	38	4	0
42	23	348.16	8	34	34	4	0
42	24	306.76	7	30	30	4	0
43	1	305.62	7	29	29	4	0
43	2	292.67	6	32	32	4	0
43	3	293.77	6	26	26	4	0
43	4	305.24	7	17	17	4	0
43	5	329.5	8	18	18	4	0
43	6	323.76	7	31	31	4	0
43	7	343.27	8	22	22	4	0
43	8	351.84	9	28	28	4	0
43	9	339.27	8	27	27	4	0
43	10	355.44	9	27	27	4	0
43	11	8.26	9	30	30	4	0
43	12	346.56	8	24	24	4	0
43	13	340.05	8	25	25	3	0
43	14	345.4	8	21	21	4	0
43	15	341.23	8	22	22	4	0
43	16	335.94	8	18	18	4	0
43	17	337.39	8	19	19	4	0
43	18	357.74	9	16	16	4	0

43	19	6.63	9	17	17	4	0
43	20	33.73	10	19	19	5	0
43	21	34.07	11	22	22	5	0
43	22	29.8	10	24	24	5	0
43	23	32.91	10	23	23	5	0
43	24	41.53	11	23	23	5	0
44	1	40.94	11	20	20	6	0
44	2	39.16	11	25	25	6	0
44	3	44.1	11	16	16	5	0
44	4	38.18	11	24	24	6	0
44	5	41.74	11	30	30	6	0
44	6	70.87	12	14	14	5	0
44	7	42.18	11	18	18	5	0
44	8	38.5	11	22	22	5	0
44	9	35.8	11	18	18	5	0
44	10	40.57	11	13	13	5	0
44	11	278.93	5	10	10	4	0
44	12	202.37	2	17	17	4	0
44	13	192.8	2	22	22	4	0
44	14	166.19	16	24	24	4	0
44	15	155.71	16	21	21	4	0
44	16	156.95	16	23	23	4	0
44	17	162.11	16	26	26	4	0
44	18	161.09	16	20	20	4	0
44	19	177.71	1	15	15	4	0
44	20	164.43	16	11	11	4	0
44	21	188.49	1	10	10	4	0
44	22	319.22	7	7	7	5	1
44	23	355.83	9	13	13	5	1
44	24	3.67	9	8	8	5	4
45	1	42.85	11	13	13	5	9
45	2	31.05	10	18	18	5	6
45	3	52.25	11	8	8	5	4
45	4	28.67	10	16	16	5	15
45	5	43.27	11	10	10	6	1
45	6	2.02	9	7	7	5	1
45	7	42.18	11	12	12	6	0
45	8	48.34	11	10	10	6	1
45	9	28.77	10	13	13	6	21
45	10	316.34	7	14	14	5	7
45	11	169.66	1	35	35	6	0
45	12	190.64	1	43	43	5	0
45	13	223.28	3	38	38	4	0
45	14	204.63	2	31	31	4	0
45	15	216.85	3	23	23	4	0
45	16	190.51	1	27	27	4	0
45	17	174.43	1	21	21	5	0
45	18	163.35	16	13	13	5	0
45	19	178.09	1	24	24	5	0

45	20	173.43	1	24	24	5	0
45	21	164.4	16	11	11	5	0
45	22	300.64	6	22	22	4	0
45	23	308.92	7	24	24	4	0
45	24	294.67	6	28	28	4	0
46	1	291.79	6	33	33	4	0
46	2	339.54	8	31	31	4	0
46	3	318.68	7	35	35	4	0
46	4	324.69	7	40	40	4	0
46	5	318.26	7	46	46	4	0
46	6	325.55	7	40	40	4	0
46	7	315.43	7	28	28	4	0
46	8	314.28	7	31	31	4	0
46	9	315.65	7	34	34	4	0
46	10	323.68	7	37	37	4	0
46	11	320.51	7	37	37	4	0
46	12	328.05	8	34	34	4	0
46	13	318.75	7	31	31	4	0
46	14	313.28	7	30	30	3	0
46	15	307.53	7	33	33	4	0
46	16	302.13	6	25	25	4	0
46	17	290.06	6	27	27	4	0
46	18	298.63	6	18	18	4	0
46	19	302.05	6	15	15	4	0
46	20	272.93	5	13	13	4	0
46	21	123.38	14	16	16	5	0
46	22	65.93	12	13	13	4	0
46	23	166.77	16	11	11	5	0
46	24	263.43	5	8	8	5	0
47	1	57.1	12	7	7	5	0
47	2	31.02	10	9	9	5	0
47	3	40.16	11	10	10	5	0
47	4	5.82	9	12	12	5	0
47	5	206.37	2	9	9	5	0
47	6	145.32	15	8	8	5	0
47	7	173.24	1	15	15	5	0
47	8	182.26	1	27	27	4	0
47	9	171.8	1	36	36	4	0
47	10	179.33	1	35	35	4	0
47	11	180.64	1	39	39	4	0
47	12	183.16	1	39	39	4	0
47	13	202.46	2	25	25	4	0
47	14	195.78	2	27	27	4	0
47	15	179.8	1	22	22	4	0
47	16	168.86	1	15	15	4	0
47	17	170.65	1	14	14	4	0
47	18	233.21	3	13	13	5	0
47	19	279.72	5	20	20	4	0
47	20	305.73	7	38	38	4	0

47	21	304.53	7	36	36	4	0
47	22	320.16	7	31	31	4	0
47	23	324.65	7	41	41	4	0
47	24	330.48	8	33	33	4	0
48	1	331.28	8	34	34	4	0
48	2	327.22	8	36	36	4	0
48	3	334.31	8	33	33	4	0
48	4	332.65	8	42	42	4	0
48	5	343.85	8	31	31	4	0
48	6	321.81	7	39	39	4	0
48	7	321.08	7	33	33	4	0
48	8	334.93	8	31	31	4	0
48	9	358.43	9	33	33	4	0
48	10	10.99	9	29	29	4	0
48	11	5.72	9	28	28	4	0
48	12	357.24	9	28	28	4	0
48	13	345.91	8	33	33	3	0
48	14	333.35	8	34	34	4	0
48	15	324.21	7	27	27	3	0
48	16	327.5	8	25	25	4	0
48	17	339.5	8	24	24	4	0
48	18	340.58	8	15	15	4	0
48	19	342.45	8	7	7	4	0
48	20	16.21	10	15	15	5	0
48	21	12.49	10	15	15	4	0
48	22	28.57	10	21	21	4	0
48	23	26.55	10	19	19	4	0
48	24	33.11	10	16	16	5	0
49	1	28.53	10	16	16	5	0
49	2	25.13	10	22	22	5	0
49	3	32.9	10	20	20	5	0
49	4	22.9	10	13	13	4	0
49	5	33.98	11	18	18	4	0
49	6	32.74	10	15	15	4	0
49	7	37.38	11	13	13	4	0
49	8	24.14	10	12	12	4	0
49	9	6.53	9	16	16	4	0
49	10	359.97	9	18	18	4	0
49	11	22.27	10	18	18	4	2
49	12	2.28	9	13	13	5	3
49	13	353.48	9	14	14	5	4
49	14	4.9	9	19	19	5	8
49	15	7.34	9	23	23	5	12
49	16	6.72	9	30	30	5	15
49	17	11.64	10	34	34	5	7
49	18	14.32	10	37	37	5	1
49	19	15.83	10	38	38	5	1
49	20	14.03	10	33	33	5	0
49	21	10.02	9	30	30	5	0

49	22	8.24	9	34	34	5	0
49	23	5.64	9	30	30	5	0
49	24	3.59	9	31	31	4	0
50	1	1.66	9	28	28	4	0
50	2	7.47	9	28	28	4	0
50	3	7.93	9	23	23	5	0
50	4	4.71	9	20	20	5	0
50	5	359.57	9	18	18	5	0
50	6	17.01	10	12	12	5	0
50	7	1.65	9	22	22	5	0
50	8	2.44	9	20	20	5	0
50	9	12.55	10	19	19	4	1
50	10	3.45	9	25	25	4	0
50	11	6.07	9	29	29	4	0
50	12	3.94	9	29	29	4	0
50	13	2.8	9	26	26	4	0
50	14	359.48	9	23	23	4	0
50	15	353.7	9	21	21	4	0
50	16	5.61	9	25	25	4	0
50	17	2.9	9	29	29	4	0
50	18	4.86	9	30	30	4	0
50	19	6.85	9	34	34	4	0
50	20	7.73	9	28	28	4	0
50	21	5.8	9	27	27	4	0
50	22	350.31	9	19	19	4	0
50	23	349.28	9	19	19	4	0
50	24	13.34	10	19	19	4	0
51	1	13.98	10	15	15	4	0
51	2	62.98	12	11	11	5	0
51	3	122.32	14	8	8	5	0
51	4	103.75	14	10	10	4	0
51	5	231.58	3	20	20	4	0
51	6	262.65	5	24	24	4	0
51	7	309.14	7	29	29	4	0
51	8	308.23	7	28	28	4	0
51	9	303.81	7	19	19	4	0
51	10	294.25	6	24	24	4	0
51	11	291.9	6	30	30	4	0
51	12	300.38	6	26	26	4	0
51	13	294.92	6	27	27	4	0
51	14	296.96	6	28	28	4	0
51	15	294.61	6	28	28	4	0
51	16	290.69	6	34	34	4	0
51	17	291.07	6	31	31	4	0
51	18	278.93	5	25	25	4	0
51	19	268.51	5	19	19	4	0
51	20	263.2	5	16	16	4	0
51	21	260.09	5	22	22	4	0
51	22	267.61	5	22	22	4	0

51	23	280.18	5	27	27	4	0
51	24	291.13	6	27	27	4	0
52	1	302.32	6	26	26	4	0
52	2	286.29	6	23	23	4	0
52	3	303.6	6	26	26	4	0
52	4	285.06	6	31	31	4	0
52	5	277.17	5	32	32	4	0
52	6	288.24	6	28	28	4	0
52	7	259.14	5	16	16	4	0
52	8	280.64	5	19	19	4	0
52	9	301.9	6	24	24	4	0
52	10	294.54	6	27	27	4	0
52	11	291.15	6	23	23	4	0
52	12	295.29	6	30	30	3	0
52	13	340.62	8	23	23	4	0
52	14	303.26	6	20	20	4	0
52	15	272.66	5	23	23	4	0
52	16	269.96	5	18	18	4	0
52	17	269.66	5	20	20	4	0
52	18	269.14	5	16	16	4	0
52	19	197.86	2	9	9	5	0
52	20	205.01	2	12	12	5	0
52	21	204.43	2	14	14	5	0
52	22	200.96	2	13	13	5	0
52	23	127.6	15	8	8	5	0
52	24	250.01	4	10	10	5	0
53	1	46.61	11	8	8	5	0
53	2	7.13	9	11	11	6	0
53	3	3.24	9	8	8	6	0
53	4	344.05	8	6	6	5	0
53	5	357.61	9	6	6	6	0
53	6	338.16	8	7	7	6	0
53	7	13.02	10	7	7	5	0
53	8	1.13	9	6	6	6	0
53	9	210.67	2	5	5	5	0
53	10	170.49	1	14	14	4	0
53	11	197.36	2	13	13	4	0
53	12	254.99	4	17	17	5	0
53	13	246.67	4	16	16	5	0
53	14	209.92	2	17	17	4	0
53	15	163.62	16	23	23	4	0
53	16	150.09	16	25	25	4	0
53	17	154.14	16	28	28	4	0
53	18	160.95	16	23	23	5	0
53	19	160.91	16	22	22	5	0
53	20	158.64	16	16	16	5	0
53	21	162.5	16	14	14	5	0
53	22	169.17	1	14	14	5	0
53	23	180.89	1	15	15	5	0

53	24	251.92	4	10	10	5	0
54	1	260.3	5	6	6	5	0
54	2	6.13	9	8	8	5	0
54	3	356.01	9	8	8	6	0
54	4	355.31	9	7	7	6	0
54	5	26.45	10	8	8	6	0
54	6	357.97	9	6	6	6	0
54	7	19.49	10	10	10	6	0
54	8	357.53	9	9	9	6	0
54	9	164.99	16	8	8	5	0
54	10	187.42	1	11	11	4	0
54	11	212.75	2	13	13	5	0
54	12	169.49	1	18	18	5	0
54	13	183.95	1	22	22	4	0
54	14	189.43	1	39	39	4	0
54	15	186.81	1	37	37	4	0
54	16	184.83	1	39	39	4	0
54	17	185.38	1	37	37	4	0
54	18	175.14	1	28	28	5	0
54	19	165.21	16	12	12	5	0
54	20	177.91	1	15	15	5	0
54	21	183.56	1	7	7	5	0
54	22	327.53	8	7	7	5	0
54	23	339.56	8	8	8	6	0
54	24	356.47	9	7	7	6	0
55	1	315.19	7	8	8	6	0
55	2	9.82	9	6	6	5	0
55	3	35.45	11	8	8	5	0
55	4	343.2	8	8	8	6	0
55	5	11.8	10	10	10	6	0
55	6	18.33	10	9	9	6	0
55	7	1.82	9	8	8	6	0
55	8	16.77	10	6	6	6	0
55	9	341.36	8	6	6	6	0
55	10	268.39	5	11	11	5	0
55	11	165.59	16	13	13	4	0
55	12	234.61	3	16	16	5	0
55	13	197.74	2	15	15	5	0
55	14	194.19	2	16	16	4	0
55	15	227.02	3	16	16	5	0
55	16	237.25	4	13	13	5	0
55	17	244.05	4	7	7	5	0
55	18	187.49	1	7	7	6	0
55	19	319.13	7	6	6	6	0
55	20	346.07	8	9	9	6	0
55	21	22.74	10	15	15	6	0
55	22	20.27	10	14	14	6	0
55	23	28.72	10	21	21	7	0
55	24	27.76	10	20	20	7	0

56	1	28.79	10	18	18	7	0
56	2	13.09	10	13	13	6	0
56	3	12.85	10	12	12	6	0
56	4	7.77	9	12	12	6	0
56	5	48.83	11	18	18	6	0
56	6	20.68	10	11	11	6	0
56	7	51.89	11	9	9	6	0
56	8	23.41	10	18	18	6	0
56	9	16.11	10	16	16	5	0
56	10	6.4	9	18	18	5	0
56	11	13.51	10	15	15	5	9
56	12	346.3	8	13	13	5	2
56	13	357.4	9	16	16	5	0
56	14	29.55	10	26	26	4	3
56	15	44.84	11	24	24	4	0
56	16	35.13	11	29	29	4	0
56	17	37.92	11	20	20	4	0
56	18	24.28	10	25	25	4	2
56	19	12.1	10	25	25	4	0
56	20	21.95	10	26	26	4	0
56	21	25.32	10	31	31	4	0
56	22	27.48	10	26	26	4	0
56	23	27.95	10	28	28	4	0
56	24	21.8	10	26	26	4	0
57	1	29.4	10	30	30	4	0
57	2	24.77	10	24	24	4	0
57	3	25.5	10	25	25	4	0
57	4	30.08	10	26	26	4	0
57	5	23.85	10	25	25	4	0
57	6	23.24	10	27	27	4	0
57	7	28.58	10	30	30	4	0
57	8	19.9	10	22	22	4	0
57	9	33.24	10	27	27	4	0
57	10	26.78	10	29	29	4	0
57	11	20.01	10	21	21	4	0
57	12	12.11	10	19	19	4	0
57	13	23.46	10	19	19	4	0
57	14	16.69	10	17	17	4	0
57	15	2.95	9	16	16	4	0
57	16	0.11	9	11	11	4	0
57	17	4.79	9	13	13	4	0
57	18	9.32	9	12	12	4	0
57	19	24.02	10	13	13	4	0
57	20	14.46	10	12	12	4	0
57	21	15.45	10	12	12	5	0
57	22	9.8	9	10	10	5	0
57	23	11.26	10	9	9	5	0
57	24	26.1	10	7	7	5	0
58	1	153.06	16	4	4	5	0

58	2	74.33	12	5	5	5	0
58	3	203.01	2	5	5	5	0
58	4	175.63	1	8	8	5	0
58	5	43.41	11	5	5	5	0
58	6	347.96	8	7	7	6	0
58	7	35.63	11	6	6	6	0
58	8	194.13	2	6	6	5	0
58	9	207.17	2	9	9	6	0
58	10	185.04	1	16	16	6	0
58	11	167.96	16	21	21	5	0
58	12	160.96	16	20	20	6	0
58	13	159.99	16	19	19	5	0
58	14	165	16	13	13	5	0
58	15	225.96	3	10	10	5	0
58	16	226.93	3	8	8	5	0
58	17	295.74	6	6	6	5	0
58	18	191.61	2	8	8	5	0
58	19	195.21	2	11	11	5	0
58	20	226.37	3	11	11	5	0
58	21	256.25	4	6	6	5	0
58	22	153.63	16	6	6	5	5
58	23	205.17	2	12	12	5	1
58	24	128.78	15	9	9	5	0
59	1	157.53	16	15	15	5	0
59	2	223.78	3	25	25	5	16
59	3	283.15	6	17	17	5	2
59	4	301.01	6	26	26	5	0
59	5	325.48	7	29	29	4	0
59	6	295.29	6	23	23	4	1
59	7	313.05	7	40	40	4	0
59	8	340.16	8	40	40	4	0
59	9	322.43	7	33	33	4	0
59	10	323.03	7	30	30	4	0
59	11	321.14	7	31	31	4	0
59	12	312.31	7	41	41	4	0
59	13	309.72	7	37	37	4	0
59	14	316.23	7	37	37	4	0
59	15	316.21	7	36	36	4	0
59	16	323.58	7	46	46	4	0
59	17	319.09	7	36	36	4	0
59	18	311.65	7	35	35	4	0
59	19	300.91	6	37	37	4	0
59	20	316.91	7	35	35	4	0
59	21	312.49	7	41	41	4	0
59	22	313.77	7	28	28	4	0
59	23	333.47	8	27	27	4	0
59	24	314.42	7	28	28	4	0
60	1	302.52	6	38	38	4	0
60	2	311.18	7	35	35	4	0

60	3	318.85	7	36	36	4	0
60	4	320.79	7	38	38	4	0
60	5	331.63	8	36	36	4	0
60	6	347.29	8	31	31	4	0
60	7	341.94	8	34	34	4	0
60	8	345.78	8	31	31	4	0
60	9	338.55	8	33	33	4	0
60	10	349.27	9	33	33	4	0
60	11	338.17	8	32	32	4	0
60	12	327.91	8	29	29	3	0
60	13	317.47	7	26	26	3	0
60	14	317.78	7	33	33	3	0
60	15	321.2	7	34	34	4	0
60	16	325.06	7	31	31	4	0
60	17	322.27	7	28	28	4	0
60	18	320.84	7	30	30	4	0
60	19	342.6	8	30	30	4	0
60	20	341.58	8	26	26	4	0
60	21	13.9	10	22	22	5	0
60	22	32.61	10	24	24	5	0
60	23	7.25	9	24	24	5	0
60	24	3.15	9	26	26	5	0
61	1	36.72	11	15	15	5	0
61	2	8.1	9	31	31	4	0
61	3	15.68	10	25	25	4	0
61	4	15.74	10	19	19	5	0
61	5	35.51	11	24	24	5	0
61	6	63.76	12	17	17	5	0
61	7	41.09	11	14	14	5	0
61	8	39.66	11	9	9	5	0
61	9	229.01	3	8	8	5	0
61	10	270.64	5	11	11	5	0
61	11	197.3	2	20	20	4	0
61	12	158.1	16	26	26	3	0
61	13	155.75	16	26	26	3	0
61	14	153.87	16	25	25	4	0
61	15	162.14	16	32	32	4	0
61	16	157.09	16	29	29	4	0
61	17	157.31	16	22	22	4	0
61	18	166.32	16	23	23	4	0
61	19	137.02	15	13	13	5	1
61	20	21.66	10	6	6	5	0
61	21	92.16	13	6	6	5	0
61	22	162.55	16	5	5	5	0
61	23	140.79	15	5	5	5	0
61	24	17.43	10	10	10	5	0
62	1	41.86	11	16	16	5	0
62	2	330.22	8	15	15	5	0
62	3	309.82	7	35	35	4	0

62	4	309.47	7	26	26	4	0
62	5	318	7	25	25	4	0
62	6	297.46	6	25	25	4	0
62	7	302.37	6	19	19	4	0
62	8	303.16	6	30	30	4	0
62	9	288.43	6	41	41	4	0
62	10	292.15	6	43	43	4	0
62	11	301	6	31	31	4	0
62	12	292.69	6	36	36	4	0
62	13	291.1	6	46	46	4	0
62	14	297.98	6	40	40	4	0
62	15	300.73	6	40	40	4	0
62	16	294.09	6	41	41	4	0
62	17	301.32	6	43	43	4	0
62	18	312.47	7	43	43	4	0
62	19	317.79	7	41	41	4	0
62	20	320.57	7	41	41	4	0
62	21	321.78	7	38	38	4	0
62	22	325.07	7	41	41	4	0
62	23	325.64	7	34	34	4	0
62	24	312.63	7	34	34	4	0
63	1	320.56	7	26	26	4	0
63	2	310.94	7	26	26	4	0
63	3	312	7	33	33	4	0
63	4	331.06	8	29	29	4	0
63	5	312.1	7	26	26	4	0
63	6	324.57	7	36	36	4	0
63	7	303.75	7	29	29	4	0
63	8	314.48	7	29	29	4	0
63	9	304.21	7	30	30	4	0
63	10	294.32	6	28	28	4	0
63	11	309.25	7	40	40	4	0
63	12	304.12	7	42	42	4	0
63	13	307.58	7	49	49	2	0
63	14	302.94	6	48	48	3	0
63	15	304.9	7	46	46	3	0
63	16	301.44	6	40	40	4	0
63	17	321.71	7	41	41	4	0
63	18	322.24	7	41	41	4	0
63	19	322.75	7	44	44	4	0
63	20	323.6	7	43	43	4	0
63	21	320.02	7	48	48	4	0
63	22	330.83	8	41	41	4	0
63	23	318.59	7	27	27	4	0
63	24	333.3	8	34	34	4	0
64	1	319.45	7	31	31	4	0
64	2	323.5	7	29	29	4	0
64	3	325.5	7	27	27	4	0
64	4	334.62	8	19	19	4	0

64	5	321.58	7	21	21	4	0
64	6	324.07	7	29	29	4	0
64	7	345.04	8	29	29	4	0
64	8	339.42	8	22	22	4	0
64	9	324.69	7	26	26	4	0
64	10	326.1	7	25	25	4	0
64	11	336.25	8	27	27	3	0
64	12	332.45	8	23	23	3	0
64	13	295.4	6	24	24	2	0
64	14	300.69	6	24	24	2	0
64	15	307.8	7	24	24	3	0
64	16	283.91	6	29	29	4	0
64	17	295.69	6	30	30	4	0
64	18	311.46	7	23	23	4	0
64	19	292.9	6	26	26	4	0
64	20	292.12	6	24	24	4	0
64	21	315.35	7	21	21	4	0
64	22	299.36	6	14	14	4	0
64	23	213.97	3	16	16	5	0
64	24	169.64	1	13	13	5	0
65	1	172.91	1	8	8	5	0
65	2	151.48	16	8	8	5	0
65	3	131.55	15	9	9	5	0
65	4	146.78	16	8	8	6	0
65	5	260.04	5	18	18	5	0
65	6	306.22	7	27	27	4	0
65	7	313.02	7	24	24	4	0
65	8	301.82	6	26	26	4	0
65	9	298.61	6	33	33	4	0
65	10	316.36	7	29	29	4	0
65	11	330.43	8	29	29	4	0
65	12	317.28	7	33	33	4	0
65	13	316.99	7	34	34	4	0
65	14	327.65	8	38	38	4	0
65	15	328.39	8	47	47	4	0
65	16	352.92	9	43	43	4	0
65	17	350.62	9	35	35	4	0
65	18	342.47	8	35	35	4	0
65	19	343.43	8	36	36	4	0
65	20	329.9	8	39	39	4	0
65	21	326.31	8	37	37	4	0
65	22	323.66	7	30	30	4	0
65	23	331.01	8	25	25	4	0
65	24	320.79	7	24	24	4	0
66	1	305.02	7	19	19	4	0
66	2	305.04	7	22	22	4	0
66	3	306.24	7	19	19	4	0
66	4	330.02	8	16	16	4	0
66	5	311.12	7	16	16	4	0

66	6	295.36	6	17	17	5	0
66	7	319.99	7	25	25	4	0
66	8	342.09	8	26	26	4	0
66	9	328.76	8	34	34	4	0
66	10	321.47	7	34	34	4	0
66	11	327.09	8	28	28	3	0
66	12	339.59	8	42	42	4	0
66	13	349.16	9	44	44	3	0
66	14	357.06	9	40	40	3	0
66	15	348.64	8	39	39	4	0
66	16	351.6	9	37	37	4	0
66	17	0.7	9	30	30	4	0
66	18	357.11	9	26	26	4	0
66	19	354.39	9	28	28	4	0
66	20	13.88	10	19	19	5	0
66	21	2.45	9	18	18	5	0
66	22	345.83	8	23	23	5	0
66	23	353.66	9	22	22	5	0
66	24	359.69	9	9	9	5	0
67	1	18.81	10	13	13	5	0
67	2	41.11	11	8	8	6	0
67	3	30.91	10	12	12	6	0
67	4	34.19	11	18	18	6	0
67	5	47.89	11	13	13	6	0
67	6	25.57	10	11	11	6	0
67	7	28.06	10	10	10	6	0
67	8	61.93	12	6	6	6	0
67	9	201.64	2	10	10	5	0
67	10	234.18	3	12	12	5	0
67	11	237.97	4	18	18	5	0
67	12	233.74	3	21	21	5	0
67	13	206.76	2	25	25	4	0
67	14	165.09	16	28	28	3	0
67	15	158.24	16	20	20	4	0
67	16	190.32	1	15	15	4	0
67	17	296.72	6	10	10	5	0
67	18	217.46	3	7	7	5	0
67	19	132.97	15	9	9	5	0
67	20	206.51	2	11	11	6	0
67	21	18.65	10	10	10	6	0
67	22	49.92	11	11	11	5	0
67	23	46.72	11	19	19	6	6
67	24	27.42	10	11	11	6	0
68	1	53.09	11	14	14	6	0
68	2	34	11	21	21	6	0
68	3	74.2	12	9	9	6	0
68	4	29.71	10	19	19	6	0
68	5	18.19	10	19	19	6	0
68	6	37.53	11	18	18	6	0

68	7	27.95	10	12	12	7	0
68	8	43.07	11	15	15	6	0
68	9	36.96	11	14	14	6	0
68	10	13.24	10	12	12	5	0
68	11	247.1	4	12	12	5	0
68	12	234.35	3	14	14	5	0
68	13	181.65	1	24	24	4	0
68	14	168.39	16	37	37	4	0
68	15	163.22	16	32	32	3	0
68	16	162.81	16	31	31	4	0
68	17	167.48	16	33	33	4	0
68	18	170.06	1	30	30	5	0
68	19	167.08	16	28	28	5	0
68	20	160.07	16	19	19	5	0
68	21	163.3	16	15	15	5	0
68	22	178.28	1	12	12	4	0
68	23	180.78	1	11	11	5	0
68	24	190.22	1	8	8	4	0
69	1	174.23	1	9	9	4	0
69	2	182.46	1	15	15	4	0
69	3	179.99	1	12	12	5	0
69	4	108.46	14	7	7	5	0
69	5	359.31	9	6	6	5	0
69	6	346.76	8	8	8	5	0
69	7	7.85	9	8	8	5	0
69	8	340.99	8	5	5	6	0
69	9	301.43	6	7	7	6	0
69	10	202.39	2	13	13	6	0
69	11	177.27	1	16	16	5	0
69	12	214.28	3	20	20	5	0
69	13	239.57	4	21	21	5	0
69	14	217.42	3	22	22	5	0
69	15	227.07	3	15	15	6	2
69	16	156.23	16	21	21	5	3
69	17	178.62	1	19	19	5	0
69	18	195.39	2	24	24	5	0
69	19	188.23	1	17	17	5	0
69	20	145.93	15	11	11	5	0
69	21	289.4	6	27	27	5	0
69	22	18.55	10	14	14	5	0
69	23	331.68	8	12	12	5	0
69	24	214.65	3	11	11	5	0
70	1	269.43	5	19	19	5	0
70	2	302.55	6	36	36	4	0
70	3	295.38	6	30	30	4	0
70	4	306.74	7	28	28	4	0
70	5	322.23	7	25	25	4	0
70	6	309.25	7	37	37	4	0
70	7	288.52	6	35	35	4	0

70	8	295.26	6	36	36	4	0
70	9	349.02	9	37	37	4	0
70	10	0.87	9	33	33	4	0
70	11	5.71	9	38	38	3	0
70	12	7.42	9	36	36	3	0
70	13	1.4	9	34	34	3	0
70	14	5.05	9	37	37	3	0
70	15	2.57	9	30	30	3	0
70	16	2.67	9	28	28	4	0
70	17	6.28	9	28	28	4	0
70	18	5.84	9	27	27	4	0
70	19	4.56	9	24	24	4	0
70	20	1.91	9	26	26	4	0
70	21	3.02	9	24	24	4	0
70	22	11.11	9	26	26	4	0
70	23	30.75	10	30	30	4	0
70	24	36.52	11	22	22	5	0
71	1	39.98	11	13	13	4	0
71	2	60.61	12	16	16	4	0
71	3	111.75	14	16	16	4	0
71	4	103.34	14	16	16	4	0
71	5	127.66	15	14	14	4	0
71	6	108.46	14	15	15	4	0
71	7	93.43	13	12	12	4	0
71	8	108.24	14	15	15	4	0
71	9	121.5	14	18	18	4	0
71	10	107.81	14	16	16	4	0
71	11	57.5	12	18	18	4	7
71	12	58.17	12	21	21	4	0
71	13	62.98	12	18	18	4	3
71	14	47.09	11	19	19	4	8
71	15	23.37	10	16	16	4	22
71	16	33.4	10	20	20	4	12
71	17	17.9	10	24	24	4	14
71	18	12.06	10	29	29	4	0
71	19	10.22	9	32	32	4	0
71	20	11.17	9	30	30	5	0
71	21	11.6	10	29	29	4	0
71	22	16.48	10	31	31	4	0
71	23	12.3	10	30	30	4	2
71	24	10.05	9	24	24	5	4
72	1	359.83	9	26	26	5	3
72	2	10.85	9	21	21	5	0
72	3	350.52	9	12	12	4	0
72	4	355.45	9	11	11	5	0
72	5	348.25	8	8	8	4	1
72	6	354.1	9	12	12	5	1
72	7	49.98	11	15	15	5	4
72	8	26.09	10	16	16	5	1

72	9	15.95	10	27	27	5	0
72	10	36.93	11	18	18	5	1
72	11	151.93	16	15	15	5	0
72	12	338.62	8	20	20	4	0
72	13	333.8	8	22	22	4	0
72	14	292.2	6	27	27	4	0
72	15	294.17	6	40	40	4	0
72	16	298.72	6	42	42	4	0
72	17	304.78	7	50	50	4	0
72	18	328.44	8	41	41	4	0
72	19	333.77	8	47	47	4	0
72	20	339.12	8	43	43	4	0
72	21	325.41	7	32	32	4	0
72	22	322.27	7	35	35	4	0
72	23	323.96	7	40	40	4	0
72	24	327.22	8	33	33	4	0
73	1	315.41	7	30	30	4	0
73	2	282.17	6	30	30	4	0
73	3	290.32	6	32	32	4	0
73	4	303.61	6	23	23	4	0
73	5	297.56	6	24	24	4	0
73	6	298.77	6	24	24	4	0
73	7	300.54	6	27	27	4	0
73	8	306	7	24	24	4	0
73	9	299.24	6	25	25	4	0
73	10	315.71	7	32	32	3	0
73	11	322.52	7	30	30	4	0
73	12	313.05	7	29	29	3	0
73	13	324.6	7	27	27	2	0
73	14	313.37	7	36	36	2	0
73	15	321.49	7	33	33	2	0
73	16	317.07	7	32	32	3	0
73	17	323.14	7	29	29	4	0
73	18	318.08	7	18	18	4	0
73	19	329.74	8	10	10	5	0
73	20	6.14	9	10	10	5	0
73	21	59.87	12	9	9	5	0
73	22	45.03	11	9	9	6	0
73	23	27.99	10	8	8	6	0
73	24	23.89	10	10	10	6	0
74	1	2.64	9	7	7	6	0
74	2	18.03	10	9	9	5	0
74	3	29.21	10	11	11	5	0
74	4	18.32	10	13	13	5	0
74	5	19.4	10	10	10	5	0
74	6	19.11	10	9	9	5	0
74	7	20.98	10	8	8	5	0
74	8	289.77	6	5	5	5	0
74	9	171.92	1	14	14	5	0

74	10	178.82	1	22	22	4	0
74	11	171.48	1	31	31	3	0
74	12	184.47	1	50	50	3	0
74	13	191.03	1	47	47	2	0
74	14	172.84	1	38	38	4	0
74	15	185.7	1	44	44	4	0
74	16	158.96	16	37	37	4	0
74	17	158.3	16	35	35	4	0
74	18	162.46	16	30	30	4	0
74	19	170.12	1	27	27	5	0
74	20	165.92	16	18	18	5	0
74	21	155.42	16	14	14	5	0
74	22	174.71	1	12	12	5	0
74	23	303.06	6	8	8	5	0
74	24	187.71	1	13	13	5	0
75	1	307.12	7	8	8	5	0
75	2	333.56	8	7	7	5	0
75	3	303.55	6	7	7	6	0
75	4	347.85	8	8	8	6	0
75	5	356.42	9	8	8	6	0
75	6	12.58	10	11	11	6	0
75	7	21.71	10	10	10	6	0
75	8	20.39	10	6	6	5	0
75	9	289.18	6	8	8	5	0
75	10	193.4	2	12	12	4	0
75	11	195.41	2	11	11	4	0
75	12	186.85	1	22	22	4	0
75	13	183.62	1	25	25	4	0
75	14	163.8	16	27	27	3	0
75	15	157.32	16	27	27	3	0
75	16	151.41	16	38	38	4	0
75	17	151.58	16	32	32	4	0
75	18	152.43	16	26	26	5	0
75	19	152.91	16	28	28	6	0
75	20	162.54	16	46	46	5	0
75	21	176.44	1	54	54	5	0
75	22	173.13	1	39	39	5	0
75	23	172.75	1	33	33	5	0
75	24	171.33	1	25	25	5	0
76	1	158.03	16	13	13	5	0
76	2	153.03	16	13	13	5	0
76	3	162.71	16	18	18	5	0
76	4	162.9	16	21	21	5	0
76	5	168	16	18	18	5	0
76	6	192.72	2	14	14	5	0
76	7	215.13	3	8	8	5	0
76	8	179.43	1	18	18	5	0
76	9	172.51	1	19	19	4	0
76	10	168.56	16	20	20	4	0

76	11	242.42	4	13	13	5	0
76	12	330.06	8	9	9	5	0
76	13	205.38	2	10	10	5	0
76	14	208.21	2	18	18	5	0
76	15	201.51	2	12	12	5	0
76	16	180.56	1	33	33	5	0
76	17	179.62	1	30	30	5	0
76	18	161.41	16	19	19	5	0
76	19	154.49	16	11	11	5	0
76	20	154.75	16	9	9	5	0
76	21	178.91	1	12	12	5	4
76	22	11.24	9	23	23	5	3
76	23	12.72	10	23	23	5	1
76	24	9.51	9	30	30	5	3
77	1	10.12	9	48	48	5	12
77	2	8.06	9	53	53	4	21
77	3	7.64	9	53	53	4	2
77	4	6.71	9	56	56	4	0
77	5	6.82	9	57	57	4	0
77	6	7.43	9	65	65	4	0
77	7	4.75	9	58	58	4	4
77	8	0.53	9	60	60	4	4
77	9	3	9	55	55	4	0
77	10	1.06	9	54	54	5	0
77	11	1.82	9	64	64	4	0
77	12	8.12	9	65	65	4	0
77	13	3.48	9	58	58	4	0
77	14	5.8	9	48	48	5	0
77	15	358.39	9	43	43	5	0
77	16	349.39	9	52	52	4	0
77	17	352.31	9	48	48	4	0
77	18	2.02	9	45	45	4	0
77	19	5.84	9	43	43	4	0
77	20	11.9	10	39	39	4	0
77	21	8.4	9	41	41	4	0
77	22	11.11	9	46	46	4	0
77	23	9.7	9	44	44	4	0
77	24	10.57	9	54	54	4	0
78	1	8.05	9	54	54	4	0
78	2	10.8	9	52	52	4	0
78	3	13.56	10	65	65	4	0
78	4	11.2	9	72	72	4	0
78	5	11.03	9	62	62	4	0
78	6	15.02	10	57	57	4	0
78	7	17.47	10	47	47	4	0
78	8	13.64	10	42	42	4	0
78	9	8.69	9	42	42	4	0
78	10	345	8	28	28	3	0
78	11	338.07	8	24	24	3	0

78	12	338.39	8	26	26	2	0
78	13	327.05	8	22	22	2	0
78	14	332.3	8	25	25	2	0
78	15	338.58	8	24	24	3	0
78	16	307.37	7	19	19	3	0
78	17	293.49	6	16	16	4	0
78	18	318.41	7	11	11	4	0
78	19	75.21	12	14	14	4	0
78	20	44.11	11	14	14	5	0
78	21	131	15	8	8	5	0
78	22	99.67	13	12	12	5	0
78	23	147.57	16	10	10	5	0
78	24	183.16	1	11	11	5	0
79	1	113.9	14	9	9	5	0
79	2	162.39	16	6	6	5	0
79	3	13.18	10	9	9	4	0
79	4	39.9	11	18	18	5	0
79	5	25.72	10	20	20	5	0
79	6	30.17	10	16	16	5	0
79	7	46.18	11	15	15	5	0
79	8	22.95	10	19	19	4	0
79	9	53.94	11	19	19	4	0
79	10	85.42	13	23	23	4	0
79	11	174.06	1	26	26	4	0
79	12	191.07	1	43	43	3	0
79	13	184.18	1	43	43	3	0
79	14	183.51	1	48	48	2	0
79	15	186.61	1	46	46	3	0
79	16	183.33	1	41	41	4	0
79	17	173.05	1	33	33	4	0
79	18	170.54	1	28	28	4	0
79	19	170.69	1	24	24	4	0
79	20	168.22	16	18	18	4	0
79	21	169.67	1	15	15	5	0
79	22	180.56	1	15	15	5	0
79	23	160.21	16	10	10	4	0
79	24	120.82	14	9	9	5	0
80	1	24.25	10	9	9	5	0
80	2	12.66	10	14	14	5	0
80	3	32.07	10	25	25	5	0
80	4	34.91	11	18	18	4	0
80	5	22.43	10	15	15	4	0
80	6	41.87	11	17	17	4	0
80	7	51.79	11	17	17	4	0
80	8	66.7	12	18	18	4	0
80	9	59.65	12	19	19	4	0
80	10	35.58	11	23	23	4	0
80	11	41.94	11	22	22	4	0
80	12	223.51	3	21	21	4	0

80	13	255.49	4	20	20	4	0
80	14	235.12	3	24	24	4	0
80	15	187.46	1	26	26	4	0
80	16	179.68	1	28	28	4	0
80	17	175.82	1	33	33	4	0
80	18	178.63	1	25	25	4	0
80	19	160.79	16	15	15	4	0
80	20	137.02	15	14	14	4	0
80	21	142.86	15	12	12	4	0
80	22	144.12	15	13	13	4	0
80	23	129.24	15	14	14	4	0
80	24	93.16	13	12	12	4	0
81	1	76.04	12	20	20	4	0
81	2	52.72	11	28	28	4	0
81	3	48.02	11	24	24	4	0
81	4	48.62	11	24	24	4	0
81	5	42.4	11	29	29	4	0
81	6	33.97	11	29	29	4	0
81	7	37.81	11	27	27	4	0
81	8	43.25	11	30	30	4	0
81	9	38.46	11	35	35	4	0
81	10	35.89	11	33	33	4	0
81	11	40.08	11	39	39	4	0
81	12	41.35	11	35	35	4	0
81	13	45.13	11	40	40	4	0
81	14	42.47	11	33	33	4	0
81	15	40.38	11	33	33	4	0
81	16	49.23	11	30	30	4	0
81	17	48.75	11	26	26	4	0
81	18	57.72	12	29	29	4	0
81	19	55.31	11	31	31	4	0
81	20	54.54	11	31	31	4	0
81	21	40.71	11	34	34	4	0
81	22	49.42	11	36	36	4	0
81	23	38.26	11	33	33	4	0
81	24	48.3	11	35	35	4	0
82	1	41.82	11	34	34	4	0
82	2	38.53	11	35	35	4	0
82	3	37.16	11	40	40	4	0
82	4	31.79	10	39	39	4	0
82	5	31.06	10	36	36	4	0
82	6	23.8	10	28	28	4	0
82	7	28.07	10	30	30	4	0
82	8	31.83	10	35	35	4	0
82	9	29.47	10	40	40	4	0
82	10	25.01	10	36	36	4	0
82	11	24.31	10	35	35	4	0
82	12	15.17	10	30	30	4	0
82	13	11.07	9	26	26	4	0

82	14	5.96	9	22	22	4	0
82	15	334.72	8	18	18	4	0
82	16	220.95	3	20	20	4	0
82	17	202.52	2	19	19	4	0
82	18	169.56	1	27	27	4	0
82	19	157.25	16	19	19	5	0
82	20	156.18	16	13	13	5	0
82	21	150.21	16	7	7	5	0
82	22	130.64	15	7	7	5	0
82	23	21.24	10	10	10	5	0
82	24	23.89	10	7	7	5	0
83	1	120.19	14	9	9	5	0
83	2	10.21	9	10	10	5	0
83	3	24.98	10	12	12	5	0
83	4	30.01	10	19	19	5	0
83	5	19.21	10	13	13	5	0
83	6	29.16	10	15	15	5	0
83	7	39.39	11	13	13	5	0
83	8	50.5	11	8	8	5	0
83	9	223	3	12	12	4	0
83	10	211.24	2	13	13	4	0
83	11	220.63	3	17	17	4	0
83	12	347.58	8	24	24	4	0
83	13	350.6	9	30	30	3	0
83	14	343.26	8	30	30	3	0
83	15	348.05	8	28	28	3	0
83	16	2.18	9	26	26	4	0
83	17	22.18	10	27	27	4	0
83	18	7.24	9	21	21	4	0
83	19	0.67	9	17	17	5	0
83	20	19.85	10	12	12	5	0
83	21	224.83	3	8	8	6	0
83	22	28.1	10	8	8	6	0
83	23	15.29	10	27	27	5	0
83	24	10.73	9	25	25	5	0
84	1	35.41	11	25	25	5	0
84	2	25.08	10	23	23	5	0
84	3	8.97	9	17	17	5	0
84	4	7.93	9	22	22	5	0
84	5	4.62	9	26	26	5	0
84	6	26.01	10	27	27	5	0
84	7	26.67	10	28	28	5	0
84	8	20.53	10	26	26	5	0
84	9	340.87	8	26	26	4	0
84	10	351.2	9	31	31	4	0
84	11	353.44	9	26	26	3	0
84	12	351.06	9	26	26	2	0
84	13	358.82	9	28	28	3	0
84	14	351.28	9	26	26	3	0

84	15	354.3	9	23	23	3	0
84	16	339.86	8	20	20	4	0
84	17	20.67	10	18	18	4	0
84	18	197.28	2	12	12	4	0
84	19	181.56	1	10	10	5	0
84	20	211.13	2	10	10	5	0
84	21	198.53	2	11	11	5	0
84	22	241.71	4	10	10	5	0
84	23	258.3	4	12	12	5	0
84	24	267.55	5	8	8	5	0
85	1	8.18	9	7	7	6	0
85	2	356.36	9	9	9	6	0
85	3	4.92	9	10	10	6	0
85	4	22.4	10	7	7	6	0
85	5	5.19	9	6	6	6	0
85	6	27.82	10	5	5	6	0
85	7	281.96	6	5	5	6	0
85	8	170.48	1	7	7	5	0
85	9	202.58	2	14	14	4	0
85	10	209.72	2	20	20	4	0
85	11	172.26	1	31	31	4	0
85	12	158.88	16	33	33	4	0
85	13	159.16	16	37	37	2	0
85	14	153.14	16	32	32	4	0
85	15	161.22	16	30	30	4	0
85	16	161.24	16	31	31	4	0
85	17	154.99	16	26	26	4	0
85	18	160.89	16	24	24	5	0
85	19	150.47	16	15	15	5	0
85	20	171.59	1	17	17	5	0
85	21	199.27	2	10	10	5	0
85	22	315.61	7	13	13	5	0
85	23	210.37	2	11	11	5	0
85	24	73.8	12	11	11	5	0
86	1	50.98	11	19	19	5	2
86	2	191.48	2	8	8	6	0
86	3	130.06	15	9	9	6	0
86	4	329	8	14	14	6	0
86	5	317.77	7	13	13	5	0
86	6	314.97	7	17	17	5	0
86	7	323.59	7	26	26	4	0
86	8	296.11	6	16	16	4	0
86	9	283.91	6	38	38	4	0
86	10	296.35	6	40	40	4	0
86	11	308.21	7	36	36	3	0
86	12	286.62	6	40	40	2	0
86	13	294.33	6	41	41	2	0
86	14	314.27	7	36	36	3	0
86	15	303.82	7	33	33	4	0

86	16	294.48	6	34	34	4	0
86	17	287.06	6	32	32	4	0
86	18	290.77	6	30	30	4	0
86	19	281.08	5	22	22	4	0
86	20	275.21	5	20	20	5	0
86	21	308.33	7	20	20	5	0
86	22	348.32	8	28	28	4	0
86	23	18.35	10	33	33	4	0
86	24	28.17	10	17	17	5	0
87	1	21.7	10	12	12	5	0
87	2	11.53	10	13	13	5	0
87	3	327.03	8	8	8	5	0
87	4	13.07	10	12	12	5	0
87	5	21.29	10	16	16	6	0
87	6	24.97	10	14	14	6	0
87	7	11.49	10	9	9	5	0
87	8	228.19	3	7	7	5	0
87	9	173.63	1	18	18	4	0
87	10	158.85	16	28	28	3	0
87	11	165.64	16	40	40	2	0
87	12	159.83	16	40	40	2	0
87	13	166.7	16	40	40	3	0
87	14	163.73	16	39	39	4	0
87	15	162.96	16	37	37	4	0
87	16	161.39	16	41	41	4	0
87	17	160.34	16	29	29	4	0
87	18	151.99	16	26	26	4	0
87	19	154.82	16	19	19	4	0
87	20	142.24	15	12	12	4	0
87	21	62.98	12	11	11	4	0
87	22	67.02	12	12	12	4	0
87	23	49.95	11	10	10	4	0
87	24	10.24	9	19	19	5	0
88	1	3.8	9	26	26	5	7
88	2	22.68	10	16	16	5	21
88	3	15.79	10	19	19	5	16
88	4	12.27	10	20	20	4	28
88	5	3.39	9	18	18	5	12
88	6	29.87	10	9	9	5	3
88	7	156.31	16	26	26	4	0
88	8	211.52	2	20	20	4	0
88	9	263.37	5	30	30	4	0
88	10	247.84	4	22	22	4	0
88	11	225.74	3	22	22	4	0
88	12	249.84	4	36	36	4	0
88	13	262.47	5	40	40	4	0
88	14	265.73	5	45	45	4	0
88	15	271.36	5	43	43	4	0
88	16	267.11	5	37	37	4	0

88	17	220.95	3	22	22	4	0
88	18	175.82	1	28	28	4	0
88	19	194.19	2	44	44	4	0
88	20	190.88	1	41	41	4	0
88	21	191.21	1	44	44	4	0
88	22	185.56	1	37	37	4	0
88	23	184.68	1	38	38	4	0
88	24	187.44	1	24	24	4	0
89	1	179.37	1	21	21	4	0
89	2	183.73	1	20	20	4	0
89	3	192.11	2	16	16	5	0
89	4	261.59	5	19	19	5	0
89	5	204.39	2	15	15	5	0
89	6	168.45	16	16	16	5	0
89	7	199.9	2	17	17	4	0
89	8	210.98	2	28	28	4	0
89	9	247.49	4	38	38	4	0
89	10	246.53	4	44	44	4	0
89	11	245.47	4	44	44	4	0
89	12	255.38	4	47	47	4	0
89	13	246.15	4	45	45	4	0
89	14	251.17	4	46	46	4	0
89	15	284.08	6	38	38	4	0
89	16	278.93	5	32	32	4	0
89	17	275.68	5	40	40	4	0
89	18	276.65	5	34	34	4	0
89	19	269.93	5	31	31	4	0
89	20	270.43	5	24	24	4	0
89	21	261.1	5	23	23	4	0
89	22	271.75	5	27	27	4	0
89	23	279.86	5	29	29	4	0
89	24	276.33	5	28	28	4	0
90	1	262.82	5	21	21	4	0
90	2	220.84	3	15	15	4	0
90	3	231.9	3	12	12	5	0
90	4	219.93	3	10	10	5	0
90	5	225.99	3	10	10	5	0
90	6	184.37	1	13	13	5	0
90	7	193.72	2	18	18	5	0
90	8	244.17	4	22	22	4	0
90	9	245.65	4	23	23	4	0
90	10	278.06	5	31	31	4	0
90	11	274.58	5	21	21	4	0
90	12	268.6	5	24	24	4	0
90	13	330.56	8	23	23	4	0
90	14	331.91	8	21	21	4	0
90	15	309.32	7	22	22	3	0
90	16	318.55	7	21	21	4	0
90	17	332.09	8	26	26	4	0

90	18	341.09	8	29	29	4	0
90	19	334.57	8	31	31	4	0
90	20	330.43	8	32	32	4	0
90	21	328.65	8	31	31	4	0
90	22	336.41	8	30	30	4	0
90	23	336.63	8	32	32	4	0
90	24	329.11	8	22	22	4	0
91	1	327.67	8	26	26	4	0
91	2	331.45	8	22	22	4	0
91	3	328.63	8	24	24	5	0
91	4	338.44	8	21	21	4	0
91	5	339.25	8	21	21	5	0
91	6	104.35	14	13	13	5	0
91	7	132.4	15	11	11	5	0
91	8	125.06	15	15	15	4	0
91	9	321.92	7	22	22	3	0
91	10	343.88	8	22	22	3	0
91	11	2.09	9	32	32	3	0
91	12	4.71	9	30	30	3	0
91	13	5.67	9	31	31	4	0
91	14	349.18	9	26	26	4	0
91	15	296.28	6	29	29	3	0
91	16	298.7	6	34	34	4	0
91	17	331.61	8	34	34	4	0
91	18	337.5	8	27	27	4	0
91	19	350.93	9	28	28	4	0
91	20	24.51	10	34	34	4	0
91	21	27	10	20	20	4	0
91	22	4.06	9	9	9	5	0
91	23	81.63	13	10	10	5	0
91	24	22.28	10	10	10	5	0
92	1	20.85	10	10	10	6	0
92	2	53.44	11	15	15	6	0
92	3	358.44	9	9	9	6	0
92	4	21.18	10	15	15	6	0
92	5	25.1	10	12	12	6	0
92	6	17.69	10	14	14	6	0
92	7	35.28	11	13	13	6	0
92	8	180.98	1	9	9	5	0
92	9	261.64	5	12	12	5	0
92	10	226.28	3	17	17	4	0
92	11	172.2	1	22	22	4	0
92	12	213.58	2	20	20	4	0
92	13	230.67	3	22	22	4	0
92	14	246.19	4	26	26	3	0
92	15	180.14	1	25	25	4	0
92	16	186.54	1	22	22	4	0
92	17	158.91	16	19	19	4	0
92	18	162.76	16	28	28	4	0

92	19	152.35	16	30	30	5	0
92	20	152.61	16	21	21	5	0
92	21	174.63	1	11	11	5	0
92	22	250.61	4	9	9	5	0
92	23	228.22	3	7	7	5	0
92	24	287.45	6	7	7	5	0
93	1	179.49	1	6	6	5	0
93	2	346.35	8	7	7	5	0
93	3	22.07	10	7	7	5	0
93	4	12.18	10	7	7	5	0
93	5	322.76	7	7	7	6	0
93	6	128.4	15	7	7	6	0
93	7	355.09	9	6	6	6	0
93	8	325.27	7	5	5	5	0
93	9	191.98	2	12	12	5	0
93	10	201.31	2	20	20	4	0
93	11	186.87	1	18	18	4	0
93	12	161.44	16	28	28	4	0
93	13	162.21	16	30	30	4	0
93	14	185.37	1	53	53	4	0
93	15	192.16	2	50	50	4	0
93	16	187.28	1	50	50	4	0
93	17	191.7	2	55	55	4	0
93	18	187.89	1	41	41	4	0
93	19	187.76	1	32	32	5	0
93	20	185.37	1	24	24	5	0
93	21	182.63	1	33	33	5	0
93	22	185.11	1	34	34	4	0
93	23	187.93	1	29	29	4	0
93	24	182.21	1	20	20	4	0
94	1	167.85	16	15	15	5	0
94	2	184.66	1	23	23	4	0
94	3	136.49	15	9	9	5	0
94	4	165.38	16	9	9	5	0
94	5	192.06	2	7	7	5	0
94	6	159.14	16	9	9	5	0
94	7	233.76	3	8	8	5	0
94	8	229.71	3	9	9	5	0
94	9	166.81	16	12	12	5	0
94	10	172.19	1	16	16	4	0
94	11	157.15	16	23	23	4	0
94	12	162.28	16	23	23	4	0
94	13	155.01	16	22	22	4	0
94	14	149.45	16	23	23	4	0
94	15	149.37	16	25	25	4	0
94	16	152.95	16	26	26	4	0
94	17	154.93	16	27	27	4	0
94	18	153.39	16	22	22	4	0
94	19	162.21	16	17	17	5	0

94	20	218.07	3	11	11	5	0
94	21	200.69	2	14	14	5	0
94	22	187.74	1	8	8	5	0
94	23	165.37	16	17	17	5	0
94	24	190.71	1	13	13	5	0
95	1	183.61	1	25	25	5	6
95	2	164.29	16	14	14	5	43
95	3	160.65	16	24	24	5	0
95	4	167.72	16	25	25	5	0
95	5	165.74	16	24	24	5	0
95	6	163.7	16	20	20	5	0
95	7	157.89	16	16	16	5	5
95	8	268.66	5	8	8	5	0
95	9	199.25	2	13	13	5	0
95	10	179.39	1	39	39	5	0
95	11	183.33	1	52	52	4	0
95	12	186.25	1	52	52	4	0
95	13	188.67	1	52	52	4	0
95	14	187.44	1	54	54	4	0
95	15	189.43	1	43	43	4	0
95	16	243.51	4	33	33	4	3
95	17	287.68	6	26	26	4	0
95	18	283.39	6	22	22	4	0
95	19	271.39	5	19	19	4	0
95	20	273.43	5	25	25	4	0
95	21	289.75	6	38	38	4	0
95	22	310.44	7	41	41	4	0
95	23	310.2	7	40	40	4	0
95	24	309.15	7	42	42	4	0
96	1	309.48	7	33	33	4	0
96	2	297.51	6	21	21	4	0
96	3	291.64	6	35	35	4	0
96	4	278.63	5	27	27	4	0
96	5	293.28	6	25	25	4	0
96	6	303.77	7	29	29	4	0
96	7	299.06	6	28	28	4	0
96	8	286.24	6	34	34	4	0
96	9	295.33	6	42	42	4	0
96	10	299.36	6	37	37	4	0
96	11	300.23	6	38	38	4	0
96	12	281.65	6	43	43	4	0
96	13	284.01	6	44	44	4	0
96	14	291.83	6	48	48	3	0
96	15	292.31	6	47	47	4	0
96	16	292.22	6	51	51	4	0
96	17	290.11	6	43	43	4	0
96	18	294.46	6	36	36	4	0
96	19	288.17	6	28	28	4	0
96	20	287.24	6	24	24	4	0

96	21	284.71	6	19	19	4	0
96	22	277.68	5	15	15	4	0
96	23	283.61	6	13	13	4	0
96	24	266.76	5	13	13	4	0
97	1	247.99	4	11	11	5	0
97	2	186.45	1	9	9	5	0
97	3	218.98	3	10	10	5	0
97	4	160.59	16	11	11	5	0
97	5	156.66	16	13	13	5	0
97	6	148.1	16	9	9	5	0
97	7	189.97	1	15	15	4	0
97	8	193.36	2	13	13	4	0
97	9	182.57	1	17	17	4	0
97	10	235.1	3	12	12	5	0
97	11	44.19	11	9	9	5	0
97	12	197.3	2	24	24	4	0
97	13	156.08	16	33	33	3	0
97	14	180.28	1	36	36	2	0
97	15	226.35	3	39	39	4	0
97	16	239.09	4	38	38	4	0
97	17	228.29	3	29	29	4	0
97	18	198.23	2	26	26	4	0
97	19	220.84	3	19	19	5	0
97	20	331.37	8	54	54	4	0
97	21	336.42	8	36	36	4	0
97	22	329.13	8	31	31	4	0
97	23	313.88	7	33	33	4	0
97	24	308.61	7	34	34	4	0
98	1	302.74	6	22	22	4	0
98	2	267.69	5	16	16	4	0
98	3	302.21	6	20	20	4	0
98	4	335.92	8	20	20	4	0
98	5	312.98	7	23	23	4	0
98	6	291.51	6	15	15	4	0
98	7	284.37	6	23	23	4	0
98	8	292.15	6	20	20	4	0
98	9	312.45	7	21	21	4	0
98	10	309	7	22	22	4	0
98	11	267.84	5	20	20	4	0
98	12	241.82	4	17	17	4	0
98	13	165.71	16	24	24	4	0
98	14	153.04	16	23	23	4	0
98	15	151.32	16	22	22	4	0
98	16	153.42	16	20	20	4	0
98	17	167.49	16	16	16	4	0
98	18	154.25	16	21	21	4	0
98	19	158.89	16	21	21	5	0
98	20	163.89	16	14	14	5	0
98	21	174.55	1	17	17	5	0

98	22	188.95	1	11	11	5	0
98	23	179.92	1	15	15	5	0
98	24	189.21	1	26	26	4	0
99	1	194.42	2	19	19	5	0
99	2	222.46	3	10	10	5	0
99	3	208.39	2	9	9	5	0
99	4	213.18	2	8	8	5	0
99	5	203.73	2	9	9	4	0
99	6	190.73	1	12	12	5	0
99	7	180.05	1	14	14	4	0
99	8	173.36	1	21	21	4	0
99	9	168.85	1	25	25	4	0
99	10	156.18	16	30	30	2	0
99	11	156.46	16	41	41	2	0
99	12	160.27	16	42	42	1	0
99	13	155.97	16	49	49	2	0
99	14	161.08	16	56	56	3	0
99	15	158.54	16	58	58	3	0
99	16	159.42	16	62	62	4	0
99	17	161.53	16	61	61	4	0
99	18	158.64	16	52	52	5	0
99	19	158.7	16	47	47	5	0
99	20	240.83	4	28	28	4	0
99	21	294.03	6	21	21	4	0
99	22	293.72	6	23	23	4	0
99	23	340.16	8	27	27	4	0
99	24	329.02	8	33	33	4	0
100	1	341.32	8	33	33	4	0
100	2	345.53	8	38	38	4	0
100	3	351.26	9	40	40	4	3
100	4	326.49	8	32	32	4	12
100	5	333.86	8	35	35	4	2
100	6	330.17	8	36	36	4	0
100	7	340.92	8	45	45	4	1
100	8	320	7	38	38	5	2
100	9	310.59	7	43	43	5	4
100	10	317.57	7	59	59	5	1
100	11	315.16	7	46	46	5	3
100	12	297.08	6	42	42	5	1
100	13	294.06	6	41	41	5	1
100	14	283.37	6	35	35	5	0
100	15	282.45	6	44	44	7	0
100	16	276.8	5	41	41	4	0
100	17	280.99	5	34	34	4	0
100	18	288.64	6	31	31	4	0
100	19	271.52	5	28	28	4	0
100	20	271.12	5	26	26	4	0
100	21	258.65	4	22	22	4	0
100	22	287.61	6	29	29	4	0

100	23	272.14	5	21	21	4	0
100	24	262.9	5	29	29	4	0
101	1	259.61	5	30	30	4	0
101	2	234.16	3	17	17	4	0
101	3	213.03	2	17	17	4	0
101	4	182.34	1	16	16	4	0
101	5	178.38	1	18	18	5	0
101	6	185.14	1	15	15	4	0
101	7	197.4	2	14	14	4	0
101	8	209.06	2	25	25	4	0
101	9	282.19	6	25	25	4	0
101	10	289.37	6	39	39	3	0
101	11	272.04	5	40	40	2	0
101	12	275.47	5	41	41	2	0
101	13	290.08	6	39	39	2	0
101	14	309.54	7	33	33	2	0
101	15	293.33	6	41	41	3	0
101	16	313.64	7	35	35	3	0
101	17	306.35	7	32	32	3	0
101	18	323.44	7	27	27	4	0
101	19	336.65	8	27	27	4	0
101	20	353.78	9	28	28	4	0
101	21	350.5	9	32	32	4	0
101	22	344.61	8	23	23	4	0
101	23	357.93	9	19	19	4	0
101	24	25.43	10	14	14	5	0
102	1	31.79	10	20	20	4	0
102	2	40.43	11	17	17	4	0
102	3	89.97	13	10	10	5	0
102	4	126.63	15	9	9	5	0
102	5	60.38	12	9	9	5	0
102	6	14.5	10	12	12	5	0
102	7	26.42	10	17	17	5	0
102	8	26.7	10	16	16	4	0
102	9	12.93	10	12	12	4	0
102	10	206.84	2	18	18	4	0
102	11	164.48	16	26	26	4	0
102	12	194.52	2	23	23	4	0
102	13	190.12	1	20	20	4	0
102	14	167.37	16	13	13	4	0
102	15	86.88	13	15	15	4	0
102	16	53.9	11	17	17	4	0
102	17	51.89	11	10	10	4	0
102	18	111.3	14	11	11	4	0
102	19	106.71	14	11	11	4	0
102	20	104.61	14	8	8	4	0
102	21	107.71	14	9	9	4	0
102	22	150.63	16	9	9	4	0
102	23	122.42	14	8	8	4	0

102	24	87.35	13	7	7	4	0
103	1	71.96	12	8	8	4	0
103	2	231.48	3	8	8	5	0
103	3	262.19	5	8	8	5	0
103	4	86.15	13	9	9	5	0
103	5	116.06	14	8	8	5	0
103	6	276	5	15	15	5	0
103	7	293.01	6	32	32	4	0
103	8	309.88	7	40	40	4	0
103	9	305.52	7	43	43	3	0
103	10	305.56	7	35	35	2	0
103	11	310.95	7	38	38	2	0
103	12	326.47	8	38	38	2	0
103	13	314.71	7	46	46	1	0
103	14	324.36	7	45	45	2	0
103	15	315.66	7	47	47	2	0
103	16	321.24	7	48	48	3	0
103	17	319.11	7	40	40	3	0
103	18	327.25	8	44	44	4	0
103	19	333.23	8	34	34	4	0
103	20	338.78	8	26	26	4	0
103	21	310.98	7	22	22	4	0
103	22	306.6	7	21	21	4	0
103	23	303.15	6	18	18	4	0
103	24	315.75	7	14	14	4	0
104	1	326.02	7	21	21	4	0
104	2	322.68	7	23	23	4	0
104	3	0.67	9	20	20	4	0
104	4	330.57	8	15	15	4	0
104	5	2.49	9	12	12	5	0
104	6	359.05	9	12	12	5	0
104	7	35.32	11	14	14	5	0
104	8	28.69	10	14	14	4	0
104	9	18.92	10	21	21	4	0
104	10	359.48	9	21	21	4	0
104	11	340.04	8	21	21	3	0
104	12	320.6	7	21	21	2	0
104	13	262.91	5	20	20	4	0
104	14	332.41	8	16	16	4	0
104	15	265.79	5	18	18	4	0
104	16	165.28	16	25	25	3	0
104	17	162.88	16	28	28	3	0
104	18	164.67	16	32	32	4	0
104	19	172.555	1	39	39	4	0
104	20	180.44	1	45	45	4	0
104	21	177.88	1	32	32	4	0
104	22	183.35	1	31	31	4	0
104	23	186.95	1	34	34	4	0
104	24	185.24	1	33	33	4	0

105	1	186.45	1	23	23	4	0
105	2	180.33	1	21	21	4	0
105	3	199.98	2	12	12	4	0
105	4	255.79	4	9	9	5	0
105	5	356.07	9	10	10	5	0
105	6	14.88	10	13	13	5	0
105	7	20.72	10	15	15	5	0
105	8	6.74	9	10	10	4	0
105	9	174.07	1	23	23	4	0
105	10	171.71	1	28	28	3	0
105	11	157.04	16	29	29	1	0
105	12	162.95	16	41	41	2	0
105	13	160.58	16	40	40	1	0
105	14	153.35	16	36	36	1	0
105	15	149.62	16	36	36	1	0
105	16	152.62	16	35	35	2	0
105	17	154.42	16	35	35	3	0
105	18	156.89	16	36	36	4	0
105	19	161.64	16	36	36	4	0
105	20	164.19	16	27	27	4	0
105	21	173.36	1	30	30	4	0
105	22	184.96	1	20	20	4	0
105	23	219.71	3	9	9	5	0
105	24	201.93	2	8	8	5	0
106	1	194.56	2	7	7	5	0
106	2	174.33	1	6	6	5	0
106	3	74.17	12	8	8	5	0
106	4	355.69	9	7	7	5	0
106	5	356.37	9	9	9	5	0
106	6	21.37	10	20	20	5	0
106	7	9.47	9	12	12	5	0
106	8	36.64	11	12	12	5	0
106	9	69.85	12	14	14	4	0
106	10	179.47	1	17	17	4	0
106	11	218.05	3	9	9	4	0
106	12	257.96	4	12	12	4	0
106	13	208.57	2	21	21	4	0
106	14	166.72	16	28	28	4	0
106	15	160.66	16	25	25	4	0
106	16	158.01	16	25	25	4	0
106	17	157.73	16	23	23	4	0
106	18	160.49	16	17	17	5	0
106	19	158.63	16	15	15	5	0
106	20	158.37	16	19	19	5	0
106	21	167.73	16	12	12	5	0
106	22	185.31	1	5	5	5	0
106	23	185.29	1	8	8	5	0
106	24	185.31	1	5	5	5	0
107	1	185.32	1	6	6	5	0

107	2	185.23	1	10	10	5	0
107	3	183.71	1	13	13	5	0
107	4	184.13	1	12	12	5	0
107	5	184.25	1	9	9	5	0
107	6	57.2	12	14	14	5	0
107	7	32.62	10	8	8	5	0
107	8	32.64	10	7	7	5	0
107	9	31.94	10	6	6	5	0
107	10	26.62	10	10	10	5	0
107	11	182.53	1	17	17	5	0
107	12	222.76	3	17	17	4	0
107	13	197.17	2	21	21	5	0
107	14	195.45	2	23	23	5	0
107	15	218.39	3	15	15	5	0
107	16	218.95	3	17	17	5	0
107	17	227.59	3	13	13	5	0
107	18	1.48	9	44	44	4	0
107	19	12.39	10	47	47	4	0
107	20	20.91	10	36	36	4	0
107	21	15.89	10	41	41	4	0
107	22	2.44	9	49	49	4	0
107	23	8.4	9	41	41	4	0
107	24	6.72	9	32	32	4	0
108	1	5.9	9	36	36	4	0
108	2	12.27	10	32	32	4	0
108	3	4.82	9	27	27	4	0
108	4	12.41	10	27	27	4	0
108	5	8.53	9	30	30	4	0
108	6	7	9	27	27	4	0
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108	8	28.2	10	22	22	4	0
108	9	31.64	10	27	27	4	0
108	10	57.13	12	21	21	4	0
108	11	58.34	12	14	14	4	5
108	12	26.45	10	14	14	4	5
108	13	119.33	14	15	15	4	4
108	14	104.72	14	18	18	4	1
108	15	129.49	15	13	13	4	1
108	16	106.49	14	16	16	4	1
108	17	99.56	13	12	12	4	0
108	18	82.73	13	12	12	4	0
108	19	88.97	13	14	14	4	2
108	20	113.75	14	14	14	4	0
108	21	77.16	12	6	6	4	0
108	22	89.03	13	14	14	4	1
108	23	111.51	14	10	10	4	1
108	24	58.53	12	18	18	4	0
109	1	48.2	11	24	24	4	1
109	2	30.88	10	37	37	4	1

109	3	25.16	10	36	36	4	0
109	4	22.2	10	38	38	4	0
109	5	19.97	10	35	35	4	2
109	6	15.31	10	33	33	4	10
109	7	13.81	10	35	35	4	4
109	8	17.82	10	42	42	4	0
109	9	16.83	10	43	43	4	0
109	10	16.37	10	37	37	4	0
109	11	13.78	10	31	31	4	0
109	12	33.27	10	42	42	4	0
109	13	33.61	10	39	39	4	0
109	14	30.38	10	37	37	4	0
109	15	20.83	10	39	39	4	0
109	16	24.2	10	39	39	4	0
109	17	28.7	10	40	40	4	0
109	18	31.27	10	46	46	4	0
109	19	22.02	10	39	39	4	0
109	20	26.02	10	46	46	4	0
109	21	24.62	10	42	42	4	0
109	22	27.18	10	44	44	4	0
109	23	24.9	10	39	39	4	0
109	24	15.27	10	40	40	4	0
110	1	12.36	10	30	30	4	0
110	2	14.99	10	32	32	4	0
110	3	15.3	10	35	35	4	0
110	4	12.51	10	35	35	4	0
110	5	9.74	9	35	35	4	0
110	6	8.01	9	36	36	4	0
110	7	5.72	9	39	39	4	0
110	8	9.32	9	39	39	4	0
110	9	7.37	9	33	33	4	0
110	10	355.04	9	32	32	4	0
110	11	353.2	9	37	37	3	0
110	12	349.1	9	38	38	2	0
110	13	342.71	8	36	36	2	0
110	14	340.42	8	30	30	3	0
110	15	336.23	8	28	28	2	0
110	16	338.31	8	29	29	3	0
110	17	346.18	8	27	27	3	0
110	18	346.64	8	26	26	4	0
110	19	1.96	9	23	23	4	0
110	20	7.39	9	23	23	4	0
110	21	55.24	11	17	17	5	0
110	22	37.77	11	19	19	4	0
110	23	43.17	11	14	14	4	0
110	24	37.24	11	12	12	4	0
111	1	344.51	8	11	11	4	0
111	2	27.27	10	12	12	4	0
111	3	14.58	10	9	9	4	0

111	4	171.4	1	8	8	5	0
111	5	96.3	13	9	9	5	0
111	6	33.98	11	10	10	5	0
111	7	46.95	11	7	7	5	0
111	8	354.32	9	9	9	4	0
111	9	346.72	8	13	13	4	0
111	10	341.16	8	15	15	4	0
111	11	9.02	9	19	19	4	0
111	12	203.74	2	21	21	4	0
111	13	193.91	2	27	27	4	0
111	14	176.07	1	18	18	4	0
111	15	154.71	16	11	11	4	0
111	16	159.47	16	19	19	4	0
111	17	168.44	16	15	15	4	0
111	18	155.79	16	23	23	4	0
111	19	167.51	16	30	30	4	0
111	20	155.43	16	23	23	4	0
111	21	164.87	16	31	31	4	0
111	22	157.6	16	18	18	4	0
111	23	152.86	16	19	19	4	0
111	24	162.03	16	24	24	4	0
112	1	162.9	16	30	30	4	0
112	2	160.36	16	26	26	4	0
112	3	165.99	16	24	24	4	0
112	4	167.23	16	20	20	4	0
112	5	162.83	16	19	19	4	0
112	6	160.34	16	14	14	4	0
112	7	147.37	16	15	15	4	0
112	8	152.52	16	19	19	4	0
112	9	126.29	15	18	18	4	0
112	10	121.4	14	17	17	4	1
112	11	105.53	14	15	15	4	1
112	12	101.69	14	16	16	4	8
112	13	54.07	11	15	15	4	7
112	14	58.88	12	14	14	4	6
112	15	30.27	10	22	22	4	14
112	16	46.53	11	24	24	4	6
112	17	57.44	12	22	22	4	10
112	18	20.35	10	29	29	4	4
112	19	24.75	10	35	35	4	36
112	20	16.67	10	32	32	4	0
112	21	27.41	10	36	36	4	0
112	22	24.81	10	40	40	4	0
112	23	30.05	10	36	36	4	0
112	24	24.18	10	33	33	4	0
113	1	16.71	10	36	36	4	1
113	2	22.13	10	38	38	4	0
113	3	21.05	10	37	37	4	0
113	4	8.71	9	34	34	4	0

113	5	10.5	9	39	39	4	0
113	6	13.59	10	40	40	4	0
113	7	6.21	9	38	38	4	0
113	8	4.63	9	39	39	4	0
113	9	8.03	9	39	39	4	0
113	10	4.89	9	39	39	4	0
113	11	4.58	9	40	40	4	0
113	12	6.65	9	43	43	3	0
113	13	2.53	9	43	43	3	0
113	14	0.99	9	39	39	3	0
113	15	1.12	9	39	39	3	0
113	16	0.46	9	37	37	4	0
113	17	4.88	9	40	40	4	0
113	18	5.39	9	38	38	4	0
113	19	4.49	9	36	36	4	0
113	20	4.28	9	37	37	4	0
113	21	8.55	9	41	41	4	0
113	22	9.59	9	42	42	4	0
113	23	9.32	9	38	38	4	0
113	24	5.92	9	33	33	4	0
114	1	356.94	9	30	30	4	0
114	2	359.52	9	34	34	4	0
114	3	3.5	9	35	35	4	0
114	4	8.34	9	34	34	4	0
114	5	1.65	9	32	32	4	1
114	6	0.79	9	39	39	4	5
114	7	3.93	9	35	35	4	1
114	8	6.71	9	33	33	4	3
114	9	359.18	9	32	32	4	8
114	10	2.4	9	36	36	4	2
114	11	351.87	9	30	30	3	1
114	12	337.1	8	20	20	4	0
114	13	343.96	8	22	22	4	0
114	14	11.88	10	24	24	4	2
114	15	15.93	10	18	18	4	7
114	16	345.86	8	20	20	4	1
114	17	322.64	7	26	26	4	3
114	18	328.42	8	25	25	4	0
114	19	328.46	8	21	21	4	0
114	20	329.34	8	27	27	4	0
114	21	319.39	7	19	19	4	0
114	22	305.93	7	22	22	4	0
114	23	288.11	6	24	24	4	0
114	24	306.38	7	29	29	4	0
115	1	313.11	7	22	22	4	0
115	2	297.81	6	21	21	4	0
115	3	278.52	5	19	19	4	0
115	4	278.79	5	18	18	4	0
115	5	313.93	7	18	18	4	0

115	6	338.31	8	23	23	4	0
115	7	341.06	8	25	25	4	0
115	8	317.92	7	21	21	4	0
115	9	338.37	8	34	34	4	0
115	10	339.3	8	32	32	4	0
115	11	329.27	8	39	39	3	0
115	12	357.27	9	43	43	3	0
115	13	330.21	8	38	38	3	0
115	14	327.76	8	37	37	2	0
115	15	334.84	8	32	32	3	0
115	16	344.54	8	30	30	3	0
115	17	356.26	9	26	26	4	0
115	18	357.15	9	22	22	4	0
115	19	12.36	10	32	32	4	0
115	20	11.64	10	31	31	4	0
115	21	9.74	9	31	31	4	0
115	22	10.18	9	32	32	4	0
115	23	16.34	10	18	18	4	0
115	24	8.44	9	25	25	4	0
116	1	4.08	9	25	25	4	0
116	2	4.56	9	18	18	4	0
116	3	17.47	10	14	14	5	0
116	4	35	11	18	18	5	0
116	5	33.33	10	25	25	5	0
116	6	26.51	10	27	27	5	0
116	7	22.84	10	23	23	4	0
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116	12	56.38	12	31	31	3	0
116	13	61.59	12	29	29	3	0
116	14	39.94	11	23	23	4	0
116	15	136.16	15	32	32	4	0
116	16	176.56	1	42	42	4	0
116	17	181.73	1	33	33	4	0
116	18	166.48	16	28	28	4	0
116	19	144.16	15	20	20	4	0
116	20	136.11	15	12	12	4	0
116	21	164.86	16	8	8	4	0
116	22	173.66	1	7	7	4	0
116	23	351.59	9	11	11	4	0
116	24	45.93	11	28	28	4	0
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117	2	50	11	37	37	4	0
117	3	34.93	11	38	38	4	0
117	4	26.88	10	38	38	4	0
117	5	18.35	10	38	38	4	0
117	6	18.91	10	38	38	4	0

117	7	12.64	10	35	35	4	0
117	8	16.95	10	41	41	4	0
117	9	16.67	10	38	38	4	0
117	10	15.95	10	30	30	4	0
117	11	22.79	10	32	32	4	0
117	12	23.09	10	36	36	4	0
117	13	24.41	10	35	35	4	0
117	14	12	10	33	33	4	0
117	15	5.99	9	23	23	4	0
117	16	15.57	10	32	32	4	0
117	17	41.74	11	25	25	4	0
117	18	43.19	11	27	27	4	0
117	19	45.27	11	26	26	4	0
117	20	40.27	11	22	22	4	0
117	21	47.86	11	22	22	4	0
117	22	31.72	10	23	23	4	0
117	23	7.28	9	18	18	4	0
117	24	359.74	9	19	19	4	0
118	1	356.05	9	17	17	4	0
118	2	3.39	9	22	22	4	0
118	3	358.2	9	16	16	4	0
118	4	348.01	8	14	14	4	0
118	5	348.18	8	11	11	4	0
118	6	226.02	3	8	8	4	0
118	7	129.85	15	9	9	4	0
118	8	308.78	7	11	11	4	0
118	9	35.76	11	14	14	4	0
118	10	175.72	1	17	17	4	0
118	11	244.94	4	13	13	4	0
118	12	201.27	2	21	21	4	0
118	13	171.47	1	21	21	4	0
118	14	173.53	1	26	26	4	0
118	15	160.4	16	22	22	4	0
118	16	188.33	1	25	25	4	0
118	17	177.56	1	28	28	4	0
118	18	186.41	1	24	24	4	0
118	19	169.59	1	24	24	4	0
118	20	162.94	16	16	16	5	0
118	21	167.66	16	17	17	5	0
118	22	177.41	1	18	18	4	0
118	23	180.47	1	15	15	5	0
118	24	185.39	1	12	12	5	0
119	1	175.47	1	8	8	5	0
119	2	170.08	1	12	12	5	0
119	3	175.78	1	10	10	5	0
119	4	174.2	1	6	6	5	0
119	5	186.1	1	14	14	5	0
119	6	178.48	1	12	12	4	0
119	7	178.17	1	16	16	4	0

119	8	170.85	1	16	16	4	0
119	9	254.73	4	13	13	4	0
119	10	237.29	4	16	16	4	0
119	11	10.45	9	19	19	4	0
119	12	5.05	9	22	22	4	0
119	13	6.34	9	29	29	4	0
119	14	343.63	8	16	16	4	0
119	15	263.25	5	16	16	4	0
119	16	346.55	8	17	17	4	0
119	17	18.41	10	17	17	4	0
119	18	11.51	10	16	16	4	0
119	19	24.93	10	12	12	4	0
119	20	66.77	12	10	10	5	0
119	21	162.64	16	13	13	5	0
119	22	170.94	1	7	7	5	0
119	23	18.1	10	12	12	5	0
119	24	22.38	10	17	17	6	0
120	1	28.5	10	20	20	6	0
120	2	29.36	10	17	17	6	0
120	3	27.3	10	13	13	6	0
120	4	24.48	10	22	22	6	0
120	5	33.78	11	32	32	7	0
120	6	30.59	10	43	43	6	0
120	7	28.89	10	33	33	5	0
120	8	4.23	9	30	30	4	0
120	9	349.7	9	24	24	4	0
120	10	344.2	8	23	23	3	0
120	11	356.02	9	22	22	3	0
120	12	322.17	7	19	19	2	0
120	13	353.7	9	32	32	2	0
120	14	358.8	9	42	42	2	0
120	15	338.55	8	31	31	3	0
120	16	343.06	8	28	28	3	0
120	17	346.11	8	27	27	4	0
120	18	258.27	4	17	17	4	0
120	19	155.32	16	17	17	5	0
120	20	164.61	16	14	14	5	0
120	21	162.65	16	14	14	5	0
120	22	164.03	16	14	14	5	0
120	23	168.66	16	12	12	5	0
120	24	167.38	16	10	10	5	0
121	1	136.56	15	8	8	5	0
121	2	36.97	11	13	13	5	0
121	3	40.58	11	11	11	6	0
121	4	27.47	10	14	14	6	0
121	5	19.15	10	36	36	5	0
121	6	352.93	9	41	41	4	0
121	7	356.42	9	45	45	4	0
121	8	357.97	9	40	40	4	0

121	9	3.3	9	44	44	3	0
121	10	356.56	9	44	44	3	0
121	11	344.9	8	43	43	2	0
121	12	355.65	9	47	47	2	0
121	13	336.31	8	43	43	2	0
121	14	316.96	7	40	40	1	0
121	15	324.79	7	40	40	2	0
121	16	318.67	7	40	40	2	0
121	17	308.77	7	39	39	3	0
121	18	317.99	7	35	35	4	0
121	19	310.05	7	36	36	4	0
121	20	315.41	7	32	32	4	0
121	21	327.43	8	36	36	4	0
121	22	346.76	8	30	30	4	0
121	23	336.55	8	30	30	4	0
121	24	331.89	8	22	22	4	0
122	1	2.03	9	19	19	5	0
122	2	66.6	12	9	9	5	0
122	3	23.8	10	9	9	5	0
122	4	24.86	10	9	9	6	0
122	5	6.46	9	11	11	6	0
122	6	46.49	11	5	5	6	0
122	7	40.64	11	6	6	5	0
122	8	242.78	4	10	10	5	0
122	9	181.24	1	18	18	4	0
122	10	164.04	16	29	29	3	0
122	11	165.7	16	38	38	3	0
122	12	166.69	16	42	42	2	0
122	13	164.07	16	43	43	3	0
122	14	158.17	16	46	46	1	0
122	15	155.46	16	42	42	2	0
122	16	152.33	16	31	31	3	0
122	17	154.94	16	30	30	4	0
122	18	167.12	16	31	31	4	0
122	19	169.8	1	30	30	4	0
122	20	159.05	16	17	17	4	0
122	21	166.08	16	13	13	5	0
122	22	160.34	16	11	11	5	0
122	23	157.9	16	6	6	5	0
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123	1	21.68	10	9	9	5	0
123	2	141.45	15	9	9	5	0
123	3	181.13	1	7	7	5	0
123	4	99.24	13	7	7	5	0
123	5	95.46	13	7	7	5	1
123	6	108.31	14	6	6	5	1
123	7	119.03	14	7	7	5	0
123	8	215.81	3	14	14	5	0
123	9	309.7	7	28	28	4	0

123	10	354.57	9	41	41	4	0
123	11	354.34	9	44	44	3	0
123	12	347.72	8	39	39	3	0
123	13	1.29	9	42	42	2	0
123	14	6.15	9	34	34	3	0
123	15	0.64	9	28	28	4	0
123	16	28.58	10	27	27	4	0
123	17	5.51	9	28	28	4	0
123	18	8.64	9	31	31	4	0
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123	21	349.17	9	18	18	5	0
123	22	5.88	9	21	21	5	0
123	23	40.02	11	17	17	5	0
123	24	41.13	11	15	15	6	0
124	1	21.53	10	14	14	6	0
124	2	17.19	10	15	15	6	0
124	3	27.8	10	16	16	6	0
124	4	38.34	11	18	18	6	0
124	5	37.3	11	14	14	6	0
124	6	30.97	10	17	17	6	0
124	7	17.5	10	14	14	6	0
124	8	349.39	9	11	11	4	0
124	9	263.41	5	18	18	4	0
124	10	198.47	2	30	30	4	0
124	11	179.34	1	32	32	3	0
124	12	174.11	1	31	31	3	0
124	13	158.93	16	27	27	2	0
124	14	147.65	16	30	30	1	0
124	15	159.06	16	35	35	2	0
124	16	159.1	16	32	32	2	0
124	17	162.57	16	36	36	3	0
124	18	161.04	16	31	31	4	0
124	19	165.87	16	31	31	4	0
124	20	164.35	16	27	27	4	0
124	21	166.52	16	28	28	4	0
124	22	161.9	16	18	18	4	0
124	23	163.39	16	16	16	4	0
124	24	166.21	16	16	16	4	0
125	1	171.34	1	19	19	4	0
125	2	183.73	1	16	16	5	0
125	3	189.64	1	10	10	5	0
125	4	196.48	2	7	7	5	0
125	5	220.81	3	8	8	5	0
125	6	212.8	2	11	11	5	0
125	7	204.73	2	15	15	4	0
125	8	177.81	1	27	27	4	0
125	9	162.98	16	27	27	3	0
125	10	163.81	16	31	31	3	0

125	11	156.38	16	32	32	1	0
125	12	160.62	16	36	36	1	0
125	13	159.03	16	41	41	1	0
125	14	157.02	16	43	43	2	0
125	15	156.99	16	43	43	2	0
125	16	156.57	16	36	36	4	0
125	17	162.7	16	37	37	4	0
125	18	161.58	16	31	31	4	0
125	19	160.67	16	29	29	4	0
125	20	161.08	16	27	27	4	0
125	21	158.45	16	19	19	4	0
125	22	161.08	16	13	13	4	0
125	23	179.45	1	15	15	5	0
125	24	178.9	1	12	12	5	0
126	1	178.71	1	6	6	5	0
126	2	189.03	1	6	6	5	0
126	3	199.88	2	6	6	5	0
126	4	174.02	1	6	6	5	0
126	5	179.89	1	5	5	5	0
126	6	119.59	14	7	7	5	0
126	7	6.04	9	6	6	5	0
126	8	207.2	2	11	11	4	0
126	9	198.1	2	21	21	4	0
126	10	181.19	1	24	24	4	0
126	11	208.77	2	20	20	4	0
126	12	244.05	4	22	22	4	0
126	13	284.6	6	30	30	4	0
126	14	306.11	7	33	33	4	0
126	15	299.81	6	35	35	4	0
126	16	288.78	6	35	35	4	0
126	17	286.93	6	30	30	4	0
126	18	289.21	6	26	26	4	0
126	19	302.51	6	26	26	4	0
126	20	351.94	9	29	29	5	6
126	21	182.02	1	10	10	6	0
126	22	39.13	11	7	7	6	0
126	23	185.76	1	7	7	6	0
126	24	94.91	13	8	8	7	0
127	1	188.14	1	6	6	6	0
127	2	261.71	5	5	5	6	0
127	3	322.88	7	6	6	6	0
127	4	18.78	10	6	6	7	0
127	5	48.34	11	8	8	7	0
127	6	75.73	12	8	8	6	0
127	7	318.04	7	9	9	6	0
127	8	151.16	16	9	9	5	0
127	9	348.42	8	9	9	4	0
127	10	237.78	4	13	13	4	0
127	11	270.27	5	13	13	4	0

127	12	312.09	7	19	19	3	0
127	13	213.16	2	21	21	4	0
127	14	191.91	2	24	24	4	0
127	15	147.41	16	19	19	4	0
127	16	254.47	4	20	20	4	0
127	17	285.24	6	23	23	4	0
127	18	279.48	5	25	25	4	0
127	19	267.04	5	15	15	5	0
127	20	230.99	3	11	11	5	0
127	21	238.76	4	10	10	6	0
127	22	168.72	16	10	10	6	0
127	23	156.4	16	8	8	7	0
127	24	129.16	15	7	7	7	0
128	1	123.53	14	7	7	7	0
128	2	171.14	1	7	7	6	0
128	3	213.03	2	8	8	5	0
128	4	236.4	4	8	8	5	0
128	5	229.78	3	5	5	5	0
128	6	223.79	3	5	5	5	0
128	7	214.52	3	5	5	5	0
128	8	207.54	2	9	9	5	0
128	9	204.46	2	14	14	5	0
128	10	170.65	1	16	16	5	0
128	11	251.37	4	23	23	4	0
128	12	269.7	5	25	25	3	0
128	13	232.35	3	24	24	3	0
128	14	209.24	2	29	29	3	0
128	15	231.44	3	29	29	4	0
128	16	245.28	4	33	33	4	0
128	17	271.89	5	32	32	4	0
128	18	296.99	6	25	25	4	0
128	19	226.05	3	22	22	6	3
128	20	162.18	16	9	9	6	0
128	21	268.49	5	42	42	5	0
128	22	107.67	14	22	22	5	1
128	23	182.62	1	12	12	5	0
128	24	158.34	16	7	7	6	0
129	1	334.2	8	8	8	5	0
129	2	15.78	10	12	12	5	0
129	3	36.31	11	18	18	5	0
129	4	21.41	10	12	12	5	0
129	5	213.1	2	6	6	5	0
129	6	161.99	16	7	7	6	0
129	7	156.4	16	7	7	5	0
129	8	344.97	8	8	8	5	0
129	9	267.69	5	12	12	5	0
129	10	199.13	2	16	16	5	0
129	11	209.04	2	17	17	4	0
129	12	192.56	2	21	21	4	0

129	13	172.42	1	23	23	4	0
129	14	160.77	16	18	18	4	0
129	15	266.85	5	18	18	5	17
129	16	163.72	16	15	15	5	0
129	17	196.91	2	21	21	5	0
129	18	235.34	3	14	14	5	0
129	19	194.99	2	9	9	5	0
129	20	142.08	15	6	6	5	0
129	21	76.8	12	9	9	6	0
129	22	35.37	11	10	10	6	0
129	23	339.34	8	8	8	6	0
129	24	21.54	10	6	6	6	0
130	1	54.25	11	7	7	6	0
130	2	230.59	3	7	7	6	0
130	3	300.94	6	6	6	6	0
130	4	6.72	9	6	6	6	0
130	5	0.28	9	6	6	6	0
130	6	357.09	9	6	6	6	0
130	7	264.21	5	8	8	6	0
130	8	184.67	1	17	17	5	0
130	9	181.47	1	16	16	4	0
130	10	253.18	4	27	27	4	0
130	11	242.01	4	24	24	4	0
130	12	214.78	3	30	30	2	0
130	13	208.52	2	37	37	3	0
130	14	207.98	2	37	37	3	0
130	15	207.68	2	35	35	4	0
130	16	204.05	2	29	29	4	0
130	17	200.31	2	32	32	4	0
130	18	193.52	2	37	37	4	0
130	19	187.19	1	34	34	4	0
130	20	174.93	1	16	16	5	0
130	21	198.03	2	10	10	5	0
130	22	340.57	8	41	41	5	0
130	23	61.51	12	18	18	5	0
130	24	223.78	3	10	10	5	0
131	1	160.22	16	9	9	6	0
131	2	135.06	15	12	12	5	0
131	3	192.24	2	9	9	5	0
131	4	27.01	10	13	13	5	0
131	5	65.94	12	15	15	5	0
131	6	127.13	15	20	20	4	0
131	7	128.79	15	23	23	4	0
131	8	151.28	16	23	23	4	0
131	9	130.23	15	24	24	4	0
131	10	104.99	14	17	17	4	0
131	11	132.18	15	21	21	4	0
131	12	119.98	14	19	19	4	0
131	13	115.37	14	17	17	4	0

131	14	133.56	15	19	19	4	0
131	15	111.84	14	26	26	4	0
131	16	138.34	15	23	23	4	0
131	17	107.47	14	17	17	4	0
131	18	123.72	14	15	15	4	0
131	19	71.92	12	20	20	4	4
131	20	351.52	9	15	15	4	6
131	21	192.47	2	9	9	4	12
131	22	297.99	6	16	16	4	1
131	23	105.17	14	7	7	4	0
131	24	148.07	16	10	10	4	0
132	1	230.48	3	7	7	4	0
132	2	214.67	3	8	8	5	0
132	3	197.72	2	11	11	5	0
132	4	327.45	8	18	18	4	0
132	5	328.54	8	22	22	4	0
132	6	304.71	7	31	31	4	0
132	7	295.74	6	30	30	4	0
132	8	282.34	6	24	24	4	0
132	9	289.78	6	28	28	4	0
132	10	297.72	6	33	33	4	0
132	11	319.36	7	33	33	4	0
132	12	330.01	8	34	34	2	0
132	13	327.27	8	29	29	2	0
132	14	337.63	8	30	30	2	0
132	15	340.22	8	29	29	3	0
132	16	301.35	6	24	24	2	0
132	17	292.73	6	25	25	3	0
132	18	302.83	6	25	25	4	0
132	19	311.63	7	18	18	4	0
132	20	320.54	7	16	16	4	0
132	21	299.4	6	18	18	5	0
132	22	342.39	8	17	17	5	0
132	23	327.19	8	11	11	6	0
132	24	355.26	9	12	12	6	0
133	1	14.5	10	11	11	6	0
133	2	17.09	10	22	22	5	0
133	3	28.45	10	24	24	5	0
133	4	18.33	10	18	18	5	0
133	5	29.1	10	23	23	5	0
133	6	27.58	10	20	20	5	0
133	7	26.48	10	11	11	4	0
133	8	24.48	10	18	18	4	5
133	9	15.57	10	19	19	4	1
133	10	43.65	11	11	11	4	0
133	11	185.94	1	10	10	4	0
133	12	83.03	13	12	12	4	2
133	13	92.86	13	15	15	4	0
133	14	165.34	16	17	17	3	0

133	15	7.97	9	17	17	4	0
133	16	233.21	3	12	12	4	0
133	17	80.1	13	15	15	4	0
133	18	95.99	13	11	11	5	4
133	19	161.33	16	10	10	5	0
133	20	17.92	10	20	20	5	0
133	21	19.12	10	17	17	5	0
133	22	17.68	10	18	18	5	0
133	23	1.56	9	9	9	5	0
133	24	5.81	9	12	12	5	0
134	1	35.83	11	14	14	5	0
134	2	38.21	11	11	11	5	0
134	3	27.18	10	7	7	5	0
134	4	288.31	6	8	8	5	0
134	5	43.5	11	12	12	4	0
134	6	22.99	10	26	26	4	0
134	7	1.29	9	14	14	4	0
134	8	212.79	2	11	11	4	0
134	9	190.05	1	14	14	4	0
134	10	183.66	1	19	19	4	0
134	11	197.03	2	18	18	4	0
134	12	194.89	2	21	21	4	0
134	13	187.78	1	33	33	4	0
134	14	181.44	1	23	23	4	0
134	15	157.02	16	20	20	4	0
134	16	178.29	1	26	26	4	0
134	17	170.2	1	23	23	4	0
134	18	174.25	1	31	31	4	0
134	19	177.19	1	28	28	4	0
134	20	186.15	1	23	23	5	0
134	21	134.15	15	22	22	5	53
134	22	59.18	12	15	15	5	19
134	23	34.44	11	16	16	5	11
134	24	76.23	12	14	14	5	0
135	1	7.41	9	15	15	5	0
135	2	29.82	10	13	13	5	0
135	3	1.14	9	22	22	5	0
135	4	353.31	9	23	23	5	0
135	5	293.23	6	14	14	4	0
135	6	21.15	10	18	18	4	0
135	7	314.48	7	22	22	4	0
135	8	344.43	8	21	21	4	0
135	9	289.81	6	22	22	2	0
135	10	293.63	6	23	23	2	0
135	11	311.37	7	22	22	1	0
135	12	263.47	5	21	21	2	0
135	13	273.2	5	26	26	2	0
135	14	277.49	5	25	25	1	0
135	15	295.37	6	25	25	2	0

135	16	286.82	6	30	30	2	0
135	17	305.42	7	24	24	3	0
135	18	329.23	8	24	24	4	0
135	19	351.56	9	24	24	4	0
135	20	355.9	9	18	18	5	0
135	21	5.37	9	17	17	5	0
135	22	27.11	10	20	20	5	0
135	23	13.9	10	38	38	4	0
135	24	351.11	9	27	27	4	0
136	1	344.47	8	25	25	4	0
136	2	8.57	9	24	24	4	0
136	3	2.44	9	23	23	4	0
136	4	329.51	8	12	12	4	0
136	5	163.75	16	10	10	5	0
136	6	286.78	6	8	8	5	0
136	7	38.34	11	9	9	4	0
136	8	262.67	5	12	12	3	0
136	9	317.57	7	18	18	3	0
136	10	284.52	6	20	20	2	0
136	11	312.66	7	21	21	2	0
136	12	313.06	7	21	21	2	0
136	13	266.92	5	24	24	3	0
136	14	286.59	6	25	25	1	0
136	15	308.11	7	24	24	3	0
136	16	290.39	6	24	24	4	0
136	17	318.27	7	24	24	4	0
136	18	290.76	6	20	20	4	0
136	19	272.98	5	11	11	4	0
136	20	270.62	5	7	7	5	0
136	21	343.5	8	7	7	6	0
136	22	25.43	10	25	25	6	0
136	23	39.09	11	22	22	5	0
136	24	111.64	14	9	9	5	0
137	1	13.47	10	15	15	6	0
137	2	26.15	10	11	11	6	0
137	3	26.57	10	12	12	5	0
137	4	30	10	13	13	6	0
137	5	25.83	10	14	14	6	0
137	6	24.38	10	13	13	6	0
137	7	9.77	9	12	12	5	0
137	8	349.27	9	10	10	4	0
137	9	148.5	16	11	11	4	0
137	10	315.83	7	18	18	4	0
137	11	271.33	5	19	19	2	0
137	12	238.42	4	21	21	2	0
137	13	249.87	4	20	20	2	0
137	14	265.98	5	22	22	1	0
137	15	212.56	2	17	17	3	0
137	16	257.45	4	23	23	2	0

137	17	245.8	4	17	17	3	0
137	18	193.02	2	20	20	4	0
137	19	157.7	16	25	25	4	0
137	20	168.84	1	18	18	5	0
137	21	174.23	1	16	16	5	0
137	22	182.87	1	11	11	5	0
137	23	183.84	1	6	6	5	0
137	24	231.17	3	7	7	5	0
138	1	331.22	8	9	9	5	0
138	2	34.44	11	22	22	5	0
138	3	101.2	13	9	9	5	0
138	4	90.87	13	11	11	5	0
138	5	26.85	10	22	22	5	0
138	6	32.79	10	23	23	6	0
138	7	30.37	10	27	27	5	0
138	8	31.68	10	23	23	4	0
138	9	340.65	8	14	14	4	0
138	10	204.23	2	19	19	4	0
138	11	174.14	1	24	24	4	0
138	12	167.03	16	29	29	2	0
138	13	165.45	16	28	28	2	0
138	14	165.1	16	30	30	3	0
138	15	163.78	16	29	29	3	0
138	16	168.97	1	32	32	4	0
138	17	165.67	16	31	31	4	0
138	18	166.5	16	30	30	4	0
138	19	167.99	16	29	29	4	0
138	20	166.91	16	26	26	4	0
138	21	166.83	16	15	15	4	0
138	22	154.98	16	12	12	4	0
138	23	151.91	16	7	7	5	0
138	24	103.31	14	8	8	5	0
139	1	105.39	14	6	6	5	0
139	2	121.99	14	7	7	4	0
139	3	169.34	1	9	9	4	0
139	4	191.32	2	17	17	4	0
139	5	182.21	1	16	16	4	0
139	6	177.69	1	30	30	4	0
139	7	177.47	1	27	27	4	0
139	8	176.6	1	23	23	4	1
139	9	170.28	1	18	18	4	1
139	10	175.61	1	31	31	4	0
139	11	177.79	1	37	37	4	0
139	12	177.34	1	33	33	4	0
139	13	182.04	1	24	24	4	0
139	14	185.28	1	41	41	4	0
139	15	185.16	1	64	64	4	0
139	16	187.36	1	62	62	4	0
139	17	191.47	2	65	65	4	0

139	18	294.96	6	42	42	4	24
139	19	175.35	1	12	12	5	0
139	20	189.01	1	10	10	5	0
139	21	173.64	1	15	15	5	0
139	22	251.55	4	7	7	4	0
139	23	166.62	16	8	8	5	0
139	24	208.98	2	11	11	5	0
140	1	173.78	1	14	14	5	0
140	2	95.41	13	7	7	5	0
140	3	13	10	18	18	5	0
140	4	12.39	10	35	35	4	1
140	5	12.4	10	31	31	4	8
140	6	15.69	10	27	27	4	0
140	7	16.22	10	30	30	4	0
140	8	11.21	9	34	34	4	3
140	9	13.76	10	30	30	4	11
140	10	20.37	10	24	24	4	4
140	11	29.79	10	35	35	4	2
140	12	27.12	10	30	30	4	0
140	13	31.43	10	28	28	4	0
140	14	35.25	11	37	37	4	0
140	15	25.09	10	35	35	4	0
140	16	32.15	10	39	39	4	0
140	17	30.13	10	38	38	4	0
140	18	25.16	10	34	34	4	0
140	19	30.61	10	25	25	4	0
140	20	32.93	10	22	22	4	0
140	21	36.68	11	23	23	4	0
140	22	33.77	11	19	19	4	0
140	23	41.33	11	18	18	4	0
140	24	41.5	11	21	21	4	0
141	1	40.64	11	20	20	4	0
141	2	40.13	11	19	19	4	0
141	3	33.8	11	25	25	4	0
141	4	36.41	11	20	20	4	0
141	5	33.72	10	18	18	4	0
141	6	41.59	11	15	15	4	0
141	7	51.27	11	17	17	4	0
141	8	41	11	11	11	4	0
141	9	59.91	12	11	11	4	0
141	10	41.36	11	16	16	4	1
141	11	27.24	10	9	9	4	1
141	12	12.67	10	6	6	4	6
141	13	39.41	11	15	15	4	11
141	14	164.38	16	15	15	4	1
141	15	97.23	13	7	7	4	0
141	16	73.81	12	8	8	4	0
141	17	75.57	12	11	11	4	0
141	18	62.34	12	12	12	4	0

141	19	51.37	11	12	12	4	0
141	20	51.55	11	11	11	4	0
141	21	53.62	11	10	10	4	0
141	22	80.35	13	7	7	4	0
141	23	107.12	14	6	6	4	0
141	24	159.44	16	6	6	4	0
142	1	94.19	13	7	7	4	0
142	2	125.18	15	7	7	4	0
142	3	125.94	15	6	6	4	0
142	4	108.26	14	8	8	4	0
142	5	119.35	14	8	8	4	0
142	6	89.11	13	9	9	4	0
142	7	88.41	13	9	9	4	0
142	8	98.58	13	8	8	4	0
142	9	134.73	15	10	10	4	0
142	10	150.88	16	10	10	4	0
142	11	178.02	1	13	13	4	0
142	12	182.45	1	18	18	4	0
142	13	194.11	2	19	19	4	0
142	14	180.66	1	17	17	4	0
142	15	172.96	1	14	14	4	0
142	16	164.31	16	13	13	4	0
142	17	169	1	14	14	4	0
142	18	159.37	16	14	14	4	0
142	19	161.37	16	9	9	4	0
142	20	122.97	14	6	6	4	0
142	21	111.84	14	8	8	4	0
142	22	122.64	14	8	8	4	0
142	23	168.39	16	11	11	4	0
142	24	183.94	1	19	19	4	0
143	1	187.51	1	19	19	4	0
143	2	145.66	15	7	7	4	0
143	3	140.74	15	12	12	4	0
143	4	176.38	1	10	10	4	0
143	5	191.81	2	16	16	4	0
143	6	204.46	2	13	13	4	0
143	7	126.06	15	10	10	4	0
143	8	145.73	15	11	11	4	0
143	9	139.87	15	14	14	4	0
143	10	144.41	15	14	14	4	0
143	11	163.59	16	18	18	4	0
143	12	129.85	15	12	12	4	0
143	13	123.43	14	14	14	4	0
143	14	152.34	16	13	13	4	0
143	15	139	15	15	15	4	0
143	16	95.61	13	11	11	4	0
143	17	90.94	13	11	11	4	0
143	18	99.84	13	8	8	4	0
143	19	137.74	15	8	8	4	0

143	20	170.85	1	6	6	4	0
143	21	174.97	1	7	7	4	0
143	22	131.51	15	7	7	4	0
143	23	171.14	1	7	7	4	0
143	24	147.09	16	7	7	4	0
144	1	178.98	1	7	7	4	0
144	2	161.32	16	6	6	4	0
144	3	162.7	16	7	7	4	0
144	4	168.62	16	9	9	5	0
144	5	174.29	1	9	9	4	0
144	6	172.78	1	8	8	4	0
144	7	187.5	1	9	9	4	0
144	8	175.94	1	18	18	4	0
144	9	185.41	1	19	19	4	0
144	10	184.46	1	23	23	4	0
144	11	169.01	1	17	17	4	0
144	12	158.71	16	16	16	4	0
144	13	167.3	16	15	15	4	0
144	14	171.73	1	23	23	4	0
144	15	172.56	1	22	22	4	0
144	16	169.44	1	26	26	4	0
144	17	168.64	16	20	20	4	0
144	18	166.89	16	16	16	4	0
144	19	163.83	16	21	21	4	0
144	20	170.34	1	26	26	4	0
144	21	172.5	1	31	31	4	0
144	22	168.26	16	22	22	4	0
144	23	157.59	16	17	17	4	0
144	24	163.33	16	19	19	4	5
145	1	161.89	16	22	22	4	0
145	2	170.93	1	19	19	4	28
145	3	153.65	16	9	9	4	19
145	4	152.43	16	11	11	4	11
145	5	186.16	1	10	10	5	0
145	6	182.75	1	5	5	4	0
145	7	184.54	1	12	12	4	0
145	8	182.16	1	19	19	4	0
145	9	173.53	1	15	15	4	0
145	10	186.43	1	13	13	4	0
145	11	243.88	4	15	15	4	0
145	12	202.67	2	19	19	4	0
145	13	188.18	1	21	21	4	0
145	14	230.86	3	21	21	4	0
145	15	251.53	4	24	24	4	0
145	16	257.11	4	23	23	4	0
145	17	266.53	5	27	27	4	0
145	18	286.52	6	17	17	4	0
145	19	227	3	12	12	4	0
145	20	180.48	1	11	11	5	0

145	21	178.12	1	14	14	5	0
145	22	164.4	16	15	15	4	0
145	23	266.85	5	7	7	5	0
145	24	282.53	6	9	9	5	0
146	1	86.47	13	14	14	5	0
146	2	230.48	3	12	12	5	0
146	3	42.02	11	9	9	5	0
146	4	23.9	10	8	8	5	0
146	5	53.53	11	9	9	5	0
146	6	138.49	15	10	10	5	0
146	7	200.48	2	22	22	4	0
146	8	179.23	1	20	20	4	0
146	9	291.88	6	25	25	4	0
146	10	327.97	8	25	25	4	0
146	11	334.23	8	31	31	3	0
146	12	295.52	6	34	34	3	0
146	13	306.11	7	30	30	2	0
146	14	305.63	7	33	33	2	0
146	15	317.04	7	30	30	3	0
146	16	308.17	7	25	25	3	0
146	17	290	6	25	25	3	0
146	18	298.56	6	25	25	4	0
146	19	357.78	9	15	15	4	0
146	20	359.84	9	14	14	5	0
146	21	7.87	9	12	12	5	0
146	22	345.42	8	13	13	5	0
146	23	347.98	8	12	12	5	0
146	24	252.44	4	15	15	5	0
147	1	261.62	5	15	15	4	0
147	2	312.29	7	21	21	4	0
147	3	350.16	9	19	19	4	0
147	4	356.28	9	22	22	4	0
147	5	345.58	8	18	18	4	0
147	6	353.34	9	27	27	4	0
147	7	349.26	9	29	29	4	0
147	8	348.16	8	36	36	4	0
147	9	339.46	8	31	31	3	0
147	10	342.96	8	30	30	3	0
147	11	322.88	7	23	23	1	0
147	12	306.58	7	24	24	1	0
147	13	321.08	7	25	25	2	0
147	14	301.05	6	25	25	1	0
147	15	309.42	7	24	24	1	0
147	16	327.93	8	24	24	3	0
147	17	352.22	9	28	28	4	0
147	18	350.24	9	26	26	4	0
147	19	353.47	9	27	27	4	0
147	20	0.41	9	28	28	4	0
147	21	0.2	9	27	27	4	0

147	22	357.91	9	24	24	4	0
147	23	306.72	7	12	12	4	0
147	24	326	7	21	21	4	0
148	1	349.46	9	29	29	4	0
148	2	333.22	8	25	25	4	0
148	3	354.66	9	31	31	4	0
148	4	357.49	9	34	34	4	0
148	5	49.8	11	21	21	5	0
148	6	114.19	14	9	9	5	0
148	7	16.31	10	11	11	4	0
148	8	39.46	11	12	12	4	0
148	9	322.33	7	13	13	4	0
148	10	293.85	6	16	16	4	0
148	11	227.4	3	24	24	2	0
148	12	241.34	4	19	19	2	0
148	13	261.07	5	18	18	3	0
148	14	232.21	3	22	22	3	0
148	15	217.83	3	23	23	3	0
148	16	213	2	25	25	4	0
148	17	204.69	2	27	27	4	0
148	18	213.69	2	23	23	4	0
148	19	231.66	3	17	17	4	0
148	20	178.48	1	12	12	4	0
148	21	16.4	10	12	12	5	0
148	22	28.26	10	13	13	5	0
148	23	43.28	11	16	16	5	0
148	24	27.79	10	21	21	5	0
149	1	13.74	10	19	19	5	0
149	2	11.95	10	26	26	4	0
149	3	26.35	10	23	23	5	0
149	4	26.34	10	20	20	5	0
149	5	28.5	10	24	24	5	0
149	6	25.02	10	22	22	5	0
149	7	18.9	10	25	25	4	0
149	8	7.58	9	24	24	4	0
149	9	355.58	9	19	19	4	0
149	10	356.25	9	23	23	3	0
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149	13	11.54	10	19	19	4	0
149	14	14.23	10	21	21	4	0
149	15	348.38	8	20	20	4	0
149	16	353.23	9	19	19	4	0
149	17	25.84	10	28	28	4	0
149	18	37.2	11	21	21	4	0
149	19	77.27	12	12	12	4	0
149	20	79.17	13	9	9	4	0
149	21	71.57	12	10	10	4	0
149	22	59.83	12	11	11	4	0

149	23	79.51	13	12	12	4	0
149	24	153.72	16	11	11	4	0
150	1	139.17	15	7	7	4	0
150	2	92.23	13	10	10	4	0
150	3	29.17	10	16	16	4	0
150	4	23.56	10	10	10	4	0
150	5	22.67	10	15	15	4	0
150	6	38.22	11	17	17	4	0
150	7	49.3	11	19	19	4	0
150	8	52.63	11	14	14	4	0
150	9	32.81	10	24	24	4	0
150	10	41.79	11	24	24	4	0
150	11	47.65	11	27	27	4	0
150	12	23.09	10	33	33	4	0
150	13	33.38	10	30	30	4	0
150	14	13.98	10	20	20	4	0
150	15	35.84	11	22	22	4	0
150	16	168.82	1	29	29	4	0
150	17	189.45	1	19	19	4	0
150	18	189.73	1	13	13	4	0
150	19	118.06	14	10	10	4	0
150	20	91.6	13	9	9	5	0
150	21	156.78	16	8	8	5	0
150	22	212.33	2	9	9	4	0
150	23	6.74	9	9	9	4	0
150	24	37.82	11	8	8	4	0
151	1	34.52	11	9	9	4	0
151	2	45.82	11	8	8	5	0
151	3	31.49	10	11	11	5	0
151	4	24.84	10	15	15	5	0
151	5	40.45	11	25	25	4	0
151	6	26.13	10	27	27	4	0
151	7	23.42	10	24	24	4	0
151	8	14.32	10	23	23	4	0
151	9	15.92	10	20	20	4	0
151	10	41.74	11	21	21	4	0
151	11	31.41	10	21	21	4	0
151	12	352.68	9	21	21	3	0
151	13	31.42	10	24	24	4	0
151	14	267.96	5	15	15	4	0
151	15	182.36	1	33	33	3	0
151	16	181.54	1	41	41	3	0
151	17	185.76	1	43	43	4	0
151	18	182.97	1	39	39	4	0
151	19	157.2	16	21	21	4	0
151	20	155.03	16	11	11	4	0
151	21	151.68	16	9	9	5	0
151	22	175.55	1	7	7	5	0
151	23	70.02	12	9	9	5	0

151	24	88.59	13	8	8	5	0
152	1	123.85	15	7	7	5	0
152	2	101.79	14	8	8	5	0
152	3	42.03	11	15	15	5	0
152	4	28.21	10	10	10	5	0
152	5	50.24	11	13	13	4	0
152	6	82.86	13	13	13	4	0
152	7	85.74	13	11	11	4	0
152	8	126.18	15	12	12	4	0
152	9	187.36	1	18	18	4	0
152	10	187.14	1	22	22	4	0
152	11	171.66	1	21	21	3	0
152	12	165.86	16	26	26	1	0
152	13	160.59	16	21	21	3	0
152	14	172.84	1	27	27	2	0
152	15	167.72	16	25	25	2	0
152	16	158.83	16	23	23	2	0
152	17	160.19	16	23	23	3	0
152	18	166.31	16	21	21	4	0
152	19	164.6	16	20	20	5	0
152	20	169.06	1	20	20	5	0
152	21	167.08	16	11	11	5	0
152	22	167.22	16	13	13	5	0
152	23	185.59	1	15	15	5	0
152	24	188.37	1	13	13	5	0
153	1	189.03	1	12	12	4	0
153	2	178.32	1	12	12	4	0
153	3	174	1	12	12	4	0
153	4	179.49	1	11	11	4	0
153	5	185.18	1	12	12	5	0
153	6	195.6	2	9	9	5	0
153	7	183.99	1	13	13	4	0
153	8	178.68	1	17	17	4	0
153	9	191.25	2	13	13	4	0
153	10	222.51	3	17	17	4	0
153	11	212.07	2	19	19	4	0
153	12	208.66	2	20	20	4	0
153	13	188.67	1	20	20	5	0
153	14	198.37	2	15	15	4	0
153	15	182.58	1	20	20	4	0
153	16	180.79	1	20	20	4	0
153	17	189.56	1	16	16	4	0
153	18	247.07	4	16	16	4	0
153	19	224.78	3	12	12	4	0
153	20	198.36	2	12	12	5	0
153	21	151.01	16	10	10	6	0
153	22	63.03	12	12	12	5	0
153	23	27.35	10	17	17	6	0
153	24	17.76	10	20	20	6	0

154	1	98.03	13	8	8	6	0
154	2	32.6	10	18	18	6	0
154	3	35.97	11	17	17	6	0
154	4	107.76	14	10	10	6	0
154	5	31.26	10	13	13	6	0
154	6	9.06	9	12	12	6	0
154	7	15.78	10	10	10	5	0
154	8	167.01	16	10	10	5	0
154	9	174.53	1	15	15	4	0
154	10	191.64	2	20	20	4	0
154	11	177.89	1	21	21	4	0
154	12	175.14	1	31	31	3	0
154	13	169.57	1	26	26	4	0
154	14	209.66	2	33	33	4	0
154	15	196.18	2	44	44	4	0
154	16	194.16	2	48	48	4	0
154	17	198.79	2	42	42	4	0
154	18	205.79	2	38	38	4	0
154	19	221.9	3	28	28	5	3
154	20	157.25	16	13	13	5	0
154	21	22.39	10	9	9	5	0
154	22	180.9	1	16	16	5	0
154	23	173.9	1	13	13	5	0
154	24	191	1	16	16	5	0
155	1	304.12	7	14	14	5	0
155	2	343.24	8	25	25	4	0
155	3	344.87	8	30	30	4	0
155	4	310.16	7	24	24	4	0
155	5	309.44	7	20	20	4	0
155	6	327.02	8	25	25	4	0
155	7	351.85	9	27	27	4	0
155	8	359.79	9	27	27	4	0
155	9	352.14	9	34	34	4	0
155	10	350.33	9	27	27	3	0
155	11	12.48	10	43	43	2	0
155	12	13.05	10	43	43	1	0
155	13	7.94	9	44	44	1	0
155	14	4.76	9	47	47	2	0
155	15	357.9	9	35	35	2	0
155	16	356.12	9	30	30	3	0
155	17	354.73	9	27	27	3	0
155	18	358.02	9	22	22	4	0
155	19	1.6	9	19	19	4	0
155	20	359.38	9	12	12	5	0
155	21	34.03	11	13	13	5	0
155	22	29.41	10	9	9	6	0
155	23	17.15	10	19	19	6	0
155	24	23.79	10	20	20	6	0
156	1	21.67	10	17	17	7	0

156	2	27.62	10	36	36	7	0
156	3	30.26	10	18	18	6	0
156	4	48.56	11	13	13	6	0
156	5	21.26	10	17	17	6	0
156	6	25.46	10	23	23	6	0
156	7	26.72	10	22	22	5	0
156	8	41.07	11	23	23	4	0
156	9	47.38	11	15	15	4	0
156	10	271.23	5	15	15	4	0
156	11	183.87	1	25	25	3	0
156	12	168.86	1	28	28	2	0
156	13	168.4	16	23	23	3	0
156	14	168.93	1	32	32	2	0
156	15	166.95	16	28	28	4	0
156	16	165.8	16	25	25	4	0
156	17	166.79	16	30	30	4	0
156	18	167.49	16	29	29	4	0
156	19	170.48	1	26	26	4	0
156	20	177.22	1	33	33	4	0
156	21	180.76	1	27	27	4	0
156	22	204.22	2	8	8	4	0
156	23	190.06	1	12	12	4	0
156	24	38.58	11	16	16	5	0
157	1	19.41	10	26	26	5	0
157	2	11.41	10	22	22	5	0
157	3	69.77	12	12	12	5	0
157	4	38.28	11	19	19	5	0
157	5	27.44	10	19	19	5	0
157	6	25.74	10	25	25	5	0
157	7	31.47	10	25	25	5	0
157	8	33.41	10	22	22	4	0
157	9	25.7	10	22	22	4	0
157	10	22.81	10	15	15	4	0
157	11	20.62	10	20	20	4	0
157	12	30.29	10	23	23	4	0
157	13	57.55	12	22	22	4	0
157	14	72.03	12	17	17	4	0
157	15	74.22	12	19	19	4	0
157	16	76.96	12	17	17	4	0
157	17	73.95	12	14	14	4	0
157	18	54.02	11	17	17	4	0
157	19	47.77	11	17	17	4	0
157	20	43.43	11	17	17	4	0
157	21	51.89	11	14	14	4	0
157	22	18.51	10	13	13	4	0
157	23	27.62	10	17	17	4	0
157	24	17.73	10	18	18	4	0
158	1	48.23	11	16	16	4	0
158	2	41.67	11	17	17	4	0

158	3	20.77	10	24	24	4	0
158	4	26.16	10	26	26	4	0
158	5	30.25	10	30	30	4	0
158	6	33.04	10	27	27	4	0
158	7	18.28	10	30	30	4	0
158	8	17.86	10	32	32	4	13
158	9	17.91	10	39	39	4	13
158	10	16.55	10	41	41	4	31
158	11	16.47	10	49	49	4	26
158	12	13.4	10	55	55	4	15
158	13	12.92	10	56	56	4	13
158	14	16.79	10	52	52	4	12
158	15	10.25	9	45	45	4	1
158	16	14.17	10	51	51	4	0
158	17	14.5	10	55	55	4	0
158	18	12.22	10	55	55	4	0
158	19	358.38	9	48	48	4	4
158	20	17.1	10	65	65	4	13
158	21	10.2	9	52	52	4	5
158	22	9.44	9	57	57	3	6
158	23	7.11	9	56	56	3	10
158	24	9.2	9	52	52	3	10
159	1	10.65	9	45	45	4	4
159	2	9.32	9	40	40	4	6
159	3	4.71	9	33	33	4	0
159	4	8.75	9	35	35	4	0
159	5	357.23	9	20	20	4	0
159	6	0.4	9	14	14	4	0
159	7	5.42	9	24	24	4	0
159	8	0.7	9	33	33	4	0
159	9	5.09	9	32	32	4	0
159	10	2.37	9	31	31	3	0
159	11	5.21	9	35	35	3	0
159	12	2.25	9	26	26	3	0
159	13	347.93	8	19	19	4	0
159	14	349.11	9	14	14	4	0
159	15	0.95	9	25	25	4	0
159	16	340.82	8	18	18	4	0
159	17	350.94	9	22	22	4	0
159	18	340.61	8	23	23	4	0
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159	20	355.5	9	18	18	4	0
159	21	340.88	8	10	10	5	0
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159	23	2.75	9	10	10	6	0
159	24	25.17	10	13	13	6	0
160	1	11.45	10	11	11	6	0
160	2	26.64	10	10	10	6	0
160	3	14.32	10	10	10	6	0

160	4	33.83	11	7	7	6	0
160	5	15.17	10	10	10	6	0
160	6	15.85	10	13	13	6	0
160	7	51.3	11	7	7	5	0
160	8	180.97	1	10	10	4	0
160	9	183.09	1	15	15	4	0
160	10	207.93	2	18	18	4	0
160	11	190.55	1	21	21	4	0
160	12	164.64	16	23	23	3	0
160	13	166.06	16	24	24	4	0
160	14	176.69	1	27	27	4	0
160	15	190.72	1	37	37	4	0
160	16	194.06	2	41	41	4	0
160	17	196.99	2	41	41	4	0
160	18	194.03	2	32	32	4	0
160	19	189.3	1	28	28	4	0
160	20	189.53	1	19	19	5	0
160	21	180.96	1	18	18	5	0
160	22	172.77	1	14	14	5	0
160	23	177.69	1	21	21	5	0
160	24	188.18	1	24	24	5	0
161	1	171.76	1	18	18	5	0
161	2	169.07	1	16	16	5	0
161	3	182.81	1	17	17	5	0
161	4	185.32	1	7	7	5	0
161	5	231.94	3	9	9	5	0
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161	8	177.78	1	13	13	4	0
161	9	185.47	1	16	16	4	0
161	10	184.84	1	20	20	4	0
161	11	194.12	2	18	18	4	0
161	12	192.21	2	19	19	4	0
161	13	224.61	3	18	18	4	0
161	14	220.11	3	22	22	4	0
161	15	257.21	4	26	26	4	0
161	16	283.67	6	25	25	4	0
161	17	250.65	4	23	23	4	0
161	18	241.75	4	21	21	4	0
161	19	200.05	2	20	20	4	0
161	20	243.72	4	7	7	5	0
161	21	337.44	8	7	7	5	0
161	22	13.58	10	11	11	6	0
161	23	12.44	10	9	9	6	0
161	24	336.61	8	7	7	6	0
162	1	228.38	3	5	5	6	0
162	2	193.86	2	9	9	6	0
162	3	15.8	10	7	7	6	0
162	4	154.35	16	6	6	6	0

162	5	155.69	16	4	4	6	0
162	6	155.72	16	4	4	6	0
162	7	247.59	4	7	7	5	0
162	8	197.74	2	11	11	6	0
162	9	186.94	1	14	14	5	0
162	10	230.78	3	20	20	4	0
162	11	252.35	4	22	22	3	0
162	12	254.69	4	25	25	3	0
162	13	246	4	25	25	4	0
162	14	209.77	2	31	31	4	0
162	15	206.08	2	32	32	4	0
162	16	197.93	2	33	33	4	0
162	17	201.14	2	33	33	4	0
162	18	203.29	2	29	29	4	0
162	19	189.31	1	18	18	4	0
162	20	175.95	1	20	20	5	0
162	21	171.24	1	14	14	5	0
162	22	173.82	1	8	8	5	0
162	23	214.09	3	11	11	6	0
162	24	168.01	16	12	12	5	0
163	1	166.61	16	9	9	5	0
163	2	266.79	5	10	10	6	0
163	3	174.71	1	8	8	6	0
163	4	339.43	8	10	10	5	0
163	5	205.84	2	10	10	5	0
163	6	203.92	2	10	10	5	0
163	7	186.08	1	13	13	5	0
163	8	179.15	1	15	15	4	0
163	9	179.33	1	17	17	4	0
163	10	204.72	2	18	18	4	0
163	11	245.2	4	27	27	4	0
163	12	249.31	4	29	29	4	0
163	13	222.26	3	26	26	4	0
163	14	234.8	3	24	24	4	0
163	15	228.62	3	26	26	4	0
163	16	10.96	9	36	36	4	0
163	17	210.27	2	19	19	4	0
163	18	166.8	16	11	11	5	0
163	19	239.01	4	36	36	5	9
163	20	290.41	6	23	23	5	7
163	21	130.9	15	13	13	5	3
163	22	173.38	1	9	9	5	0
163	23	174.5	1	15	15	5	1
163	24	161.62	16	9	9	5	1
164	1	164.3	16	7	7	5	0
164	2	172.63	1	9	9	5	0
164	3	184.12	1	9	9	4	0
164	4	173.65	1	11	11	5	0
164	5	173.3	1	20	20	4	3

164	6	122.77	14	14	14	4	6
164	7	78.26	12	13	13	4	0
164	8	79.01	13	14	14	4	0
164	9	90	13	15	15	4	0
164	10	105.36	14	13	13	4	1
164	11	103.3	14	11	11	4	0
164	12	149.52	16	12	12	4	0
164	13	76.47	12	14	14	4	0
164	14	48.71	11	22	22	4	0
164	15	56.72	12	18	18	4	0
164	16	100.71	13	11	11	4	0
164	17	72.96	12	11	11	4	1
164	18	84.92	13	8	8	4	0
164	19	66.24	12	12	12	4	0
164	20	61.99	12	12	12	4	0
164	21	58.56	12	11	11	4	0
164	22	59.34	12	13	13	4	0
164	23	67.94	12	13	13	4	0
164	24	49.73	11	11	11	4	0
165	1	63.57	12	10	10	4	0
165	2	45.43	11	15	15	4	0
165	3	46.8	11	9	9	4	0
165	4	49.48	11	13	13	4	0
165	5	54.34	11	12	12	4	0
165	6	72.34	12	11	11	4	0
165	7	45.14	11	10	10	4	0
165	8	48.02	11	15	15	4	0
165	9	83.76	13	13	13	4	0
165	10	137.98	15	13	13	4	0
165	11	150.03	16	13	13	4	0
165	12	179.14	1	18	18	4	0
165	13	168.85	1	14	14	4	0
165	14	152.96	16	12	12	4	0
165	15	127.02	15	14	14	4	0
165	16	97.2	13	17	17	4	0
165	17	143.72	15	12	12	4	0
165	18	181.78	1	10	10	4	0
165	19	143.96	15	11	11	4	0
165	20	106.16	14	9	9	4	0
165	21	101.6	14	9	9	4	11
165	22	117.83	14	10	10	5	1
165	23	117.02	14	9	9	5	0
165	24	31.18	10	11	11	4	0
166	1	15.52	10	6	6	4	0
166	2	60	12	11	11	4	0
166	3	88.62	13	8	8	4	0
166	4	52.14	11	6	6	4	0
166	5	68.15	12	6	6	4	0
166	6	31.5	10	13	13	4	0

166	7	22.11	10	15	15	4	0
166	8	76.79	12	8	8	4	0
166	9	54.1	11	13	13	4	0
166	10	96.65	13	12	12	4	0
166	11	66.27	12	13	13	4	0
166	12	161.49	16	11	11	4	0
166	13	129.46	15	11	11	4	0
166	14	174.14	1	17	17	4	0
166	15	174.03	1	18	18	4	0
166	16	173.4	1	19	19	4	0
166	17	161.78	16	14	14	4	0
166	18	151.27	16	12	12	4	0
166	19	147.13	16	11	11	4	0
166	20	152.94	16	11	11	4	0
166	21	133.11	15	12	12	4	0
166	22	113.9	14	10	10	4	0
166	23	92.3	13	8	8	4	0
166	24	89.6	13	10	10	4	0
167	1	80.03	13	10	10	4	0
167	2	111.93	14	8	8	4	0
167	3	104.13	14	7	7	4	0
167	4	65.88	12	5	5	4	0
167	5	24.94	10	7	7	4	0
167	6	78.3	12	7	7	4	0
167	7	49.42	11	9	9	4	0
167	8	234.08	3	6	6	4	0
167	9	40.5	11	8	8	4	0
167	10	298.44	6	11	11	4	0
167	11	234.61	3	8	8	4	0
167	12	137.72	15	13	13	4	0
167	13	190.24	1	21	21	4	0
167	14	178.64	1	20	20	4	0
167	15	194.4	2	17	17	4	0
167	16	209.42	2	15	15	4	0
167	17	179.44	1	17	17	4	0
167	18	220.14	3	11	11	5	0
167	19	217.32	3	8	8	5	0
167	20	179.99	1	11	11	5	0
167	21	173.38	1	13	13	4	0
167	22	167.34	16	14	14	4	0
167	23	172.59	1	18	18	4	0
167	24	177.68	1	19	19	4	0
168	1	169.86	1	10	10	5	0
168	2	261.75	5	7	7	4	0
168	3	205.7	2	8	8	5	0
168	4	181.34	1	10	10	5	0
168	5	359.43	9	9	9	5	0
168	6	13.72	10	17	17	5	0
168	7	350.69	9	15	15	4	0

168	8	202.24	2	14	14	4	0
168	9	214.67	3	15	15	4	0
168	10	175.55	1	23	23	3	0
168	11	175.58	1	33	33	4	0
168	12	188.93	1	45	45	4	0
168	13	193.78	2	44	44	3	0
168	14	190.71	1	43	43	3	0
168	15	193.27	2	35	35	4	0
168	16	193.2	2	38	38	3	0
168	17	185.38	1	37	37	4	0
168	18	187.01	1	31	31	4	0
168	19	183.43	1	28	28	5	0
168	20	183.39	1	24	24	5	0
168	21	193.11	2	16	16	5	0
168	22	173.84	1	17	17	5	0
168	23	182.16	1	26	26	5	0
168	24	179.78	1	23	23	5	0
169	1	177.43	1	20	20	5	0
169	2	177.13	1	16	16	5	0
169	3	180.98	1	20	20	5	0
169	4	181.74	1	9	9	5	0
169	5	181.07	1	10	10	5	0
169	6	176.29	1	12	12	5	0
169	7	176.08	1	16	16	4	0
169	8	174.72	1	19	19	4	0
169	9	171.02	1	20	20	4	0
169	10	198.49	2	24	24	4	0
169	11	220.06	3	26	26	4	0
169	12	232.23	3	24	24	4	0
169	13	224.32	3	27	27	4	0
169	14	216.37	3	28	28	4	0
169	15	229.84	3	31	31	4	0
169	16	248.39	4	25	25	4	0
169	17	345.13	8	31	31	4	0
169	18	324.43	7	19	19	4	0
169	19	43.35	11	16	16	4	0
169	20	3.96	9	22	22	4	0
169	21	9.66	9	19	19	4	0
169	22	24.25	10	16	16	5	0
169	23	7.45	9	10	10	5	0
169	24	39.26	11	10	10	5	0
170	1	22.72	10	20	20	5	0
170	2	27.3	10	20	20	5	0
170	3	31.28	10	29	29	5	0
170	4	36.01	11	17	17	5	0
170	5	24.97	10	21	21	5	0
170	6	22.79	10	17	17	5	0
170	7	21.39	10	15	15	5	0
170	8	23.39	10	13	13	4	0

170	9	82.69	13	10	10	5	1
170	10	82.78	13	10	10	4	0
170	11	42.21	11	13	13	4	17
170	12	14.42	10	20	20	4	1
170	13	19.9	10	18	18	4	0
170	14	359.62	9	17	17	4	0
170	15	29.11	10	12	12	4	0
170	16	46.26	11	12	12	4	0
170	17	4.62	9	19	19	4	0
170	18	358.06	9	16	16	4	0
170	19	19.16	10	16	16	4	0
170	20	16.27	10	18	18	4	0
170	21	23.19	10	22	22	4	0
170	22	16.41	10	17	17	4	0
170	23	9.3	9	17	17	4	0
170	24	26.3	10	17	17	4	0
171	1	9.6	9	18	18	4	0
171	2	2.75	9	21	21	4	0
171	3	14.66	10	22	22	4	0
171	4	5.47	9	27	27	4	0
171	5	10.14	9	25	25	4	0
171	6	11.84	10	24	24	4	0
171	7	8.91	9	30	30	4	0
171	8	6.04	9	30	30	4	0
171	9	6.41	9	28	28	4	0
171	10	4.36	9	28	28	4	0
171	11	2.78	9	28	28	4	0
171	12	3.96	9	31	31	2	0
171	13	3.89	9	26	26	3	0
171	14	359.5	9	23	23	4	0
171	15	1.45	9	22	22	4	0
171	16	0.49	9	21	21	4	0
171	17	10.37	9	19	19	4	0
171	18	336.34	8	10	10	4	0
171	19	201.61	2	10	10	4	0
171	20	243.56	4	6	6	5	0
171	21	274.62	5	6	6	5	0
171	22	21.1	10	10	10	5	0
171	23	18.06	10	15	15	5	0
171	24	23.36	10	9	9	6	0
172	1	29.5	10	14	14	6	0
172	2	40.05	11	12	12	6	0
172	3	25.09	10	12	12	6	0
172	4	30.99	10	19	19	6	0
172	5	71.04	12	10	10	6	0
172	6	137.54	15	6	6	6	0
172	7	180.56	1	8	8	5	0
172	8	149.25	16	9	9	4	0
172	9	26.95	10	19	19	4	0

172	10	6.66	9	21	21	4	0
172	11	359.22	9	24	24	3	0
172	12	5.85	9	30	30	2	0
172	13	16.44	10	32	32	2	0
172	14	18.47	10	29	29	3	0
172	15	26.56	10	31	31	3	0
172	16	19.27	10	30	30	3	0
172	17	35.77	11	20	20	4	0
172	18	306.52	7	9	9	4	0
172	19	187.48	1	9	9	4	0
172	20	78.74	12	7	7	5	0
172	21	338.73	8	5	5	5	0
172	22	340.58	8	6	6	6	0
172	23	3.29	9	8	8	6	0
172	24	4.24	9	11	11	6	0
173	1	2.64	9	10	10	6	0
173	2	5.92	9	10	10	6	0
173	3	21.02	10	11	11	5	0
173	4	9.96	9	8	8	5	0
173	5	29.77	10	7	7	5	0
173	6	17.87	10	8	8	5	0
173	7	339.79	8	5	5	5	0
173	8	186	1	14	14	4	0
173	9	182.58	1	28	28	4	0
173	10	174.14	1	33	33	4	0
173	11	181.07	1	44	44	4	0
173	12	172.63	1	39	39	4	0
173	13	171.57	1	39	39	4	0
173	14	167.7	16	42	42	3	0
173	15	163.19	16	39	39	4	0
173	16	167.42	16	39	39	4	0
173	17	167.16	16	32	32	5	0
173	18	183.03	1	33	33	4	0
173	19	169.38	1	31	31	4	0
173	20	165.77	16	29	29	5	0
173	21	166.4	16	25	25	5	0
173	22	175.68	1	25	25	5	3
173	23	182.05	1	27	27	5	13
173	24	182.01	1	17	17	5	5
174	1	170.34	1	13	13	5	0
174	2	170.88	1	15	15	5	0
174	3	179.21	1	14	14	5	0
174	4	204.38	2	8	8	5	0
174	5	136.27	15	8	8	5	0
174	6	195.95	2	6	6	5	0
174	7	179.56	1	10	10	4	0
174	8	177.11	1	11	11	4	0
174	9	165.36	16	14	14	4	0
174	10	168.9	1	19	19	4	0

174	11	169.82	1	21	21	4	0
174	12	176.06	1	20	20	4	0
174	13	192.78	2	29	29	4	0
174	14	198.19	2	39	39	4	0
174	15	197.49	2	40	40	4	0
174	16	190.91	1	40	40	4	0
174	17	202.45	2	29	29	4	0
174	18	201.76	2	28	28	4	0
174	19	204.15	2	23	23	4	0
174	20	197.42	2	20	20	5	0
174	21	203.21	2	11	11	5	0
174	22	225.08	3	11	11	5	0
174	23	195.68	2	11	11	6	0
174	24	218.74	3	14	14	5	0
175	1	231.61	3	16	16	5	0
175	2	224.1	3	15	15	5	0
175	3	205.16	2	14	14	5	0
175	4	230.77	3	8	8	5	0
175	5	219.08	3	13	13	5	0
175	6	217.98	3	14	14	5	0
175	7	242.74	4	19	19	4	0
175	8	267.49	5	24	24	4	0
175	9	317.73	7	19	19	2	0
175	10	352.65	9	21	21	3	0
175	11	334.07	8	17	17	3	0
175	12	343.77	8	17	17	4	0
175	13	335.87	8	20	20	2	0
175	14	330.28	8	22	22	2	0
175	15	5.76	9	34	34	3	0
175	16	6.53	9	30	30	3	0
175	17	2.28	9	19	19	4	0
175	18	275.37	5	14	14	4	0
175	19	236.29	4	11	11	4	0
175	20	261.28	5	9	9	5	0
175	21	9.61	9	8	8	6	0
175	22	42.25	11	12	12	6	0
175	23	19.39	10	10	10	6	0
175	24	17.8	10	18	18	6	0
176	1	10.45	9	8	8	6	0
176	2	27.45	10	20	20	6	0
176	3	27.17	10	27	27	6	0
176	4	26.63	10	20	20	6	0
176	5	27.43	10	16	16	6	0
176	6	32.41	10	19	19	6	0
176	7	63.91	12	16	16	6	0
176	8	31.53	10	10	10	4	0
176	9	317.28	7	11	11	4	0
176	10	187.25	1	16	16	4	0
176	11	174.45	1	17	17	3	0

176	12	173.71	1	22	22	3	0
176	13	157.51	16	20	20	3	0
176	14	164.8	16	20	20	4	0
176	15	165.88	16	20	20	4	0
176	16	160.7	16	21	21	4	0
176	17	165.84	16	25	25	4	0
176	18	165.35	16	24	24	4	0
176	19	168.44	16	24	24	4	0
176	20	175.36	1	24	24	5	0
176	21	175.49	1	22	22	5	0
176	22	173.56	1	14	14	5	0
176	23	180.94	1	13	13	5	0
176	24	190.59	1	8	8	5	0
177	1	198.16	2	5	5	5	0
177	2	307.16	7	5	5	5	0
177	3	5.95	9	5	5	5	0
177	4	29.32	10	5	5	5	0
177	5	13.87	10	5	5	5	0
177	6	352.87	9	5	5	5	0
177	7	209.82	2	8	8	4	0
177	8	183.63	1	18	18	4	0
177	9	183.01	1	22	22	4	0
177	10	173.73	1	22	22	3	0
177	11	166.87	16	26	26	3	0
177	12	167.64	16	30	30	4	0
177	13	169.05	1	33	33	4	0
177	14	166.54	16	35	35	4	0
177	15	165.41	16	31	31	4	0
177	16	164.52	16	33	33	4	0
177	17	166.76	16	35	35	4	0
177	18	168.4	16	30	30	4	0
177	19	167.66	16	28	28	5	0
177	20	167.93	16	20	20	5	0
177	21	211.22	2	14	14	5	0
177	22	31.46	10	8	8	5	0
177	23	19.28	10	10	10	5	0
177	24	29.16	10	14	14	5	0
178	1	32.7	10	21	21	5	0
178	2	24.87	10	23	23	5	0
178	3	123.27	14	9	9	5	0
178	4	29.85	10	12	12	5	0
178	5	33.82	11	14	14	5	0
178	6	34.47	11	18	18	5	5
178	7	208.06	2	12	12	5	0
178	8	167.1	16	6	6	4	0
178	9	211.29	2	11	11	4	0
178	10	170.6	1	20	20	4	0
178	11	171.87	1	20	20	4	0
178	12	171.53	1	20	20	4	0

178	13	180.96	1	18	18	4	0
178	14	181.78	1	29	29	4	0
178	15	190.51	1	34	34	4	0
178	16	189.78	1	31	31	4	0
178	17	175.58	1	30	30	4	0
178	18	161.15	16	19	19	4	0
178	19	183.67	1	25	25	5	0
178	20	192.33	2	26	26	4	0
178	21	194.27	2	25	25	4	0
178	22	189.41	1	23	23	4	0
178	23	190.1	1	16	16	5	0
178	24	205.71	2	12	12	5	0
179	1	179.26	1	17	17	5	0
179	2	185.82	1	9	9	5	0
179	3	175.78	1	19	19	5	0
179	4	186.26	1	9	9	5	0
179	5	170.92	1	10	10	5	0
179	6	174.95	1	14	14	5	0
179	7	179.54	1	18	18	4	0
179	8	173.16	1	17	17	4	0
179	9	172.17	1	16	16	4	0
179	10	216.92	3	13	13	4	0
179	11	254.43	4	18	18	3	0
179	12	226.9	3	18	18	4	0
179	13	205.05	2	25	25	4	0
179	14	248.23	4	31	31	4	57
179	15	150	16	11	11	4	5
179	16	349.63	9	15	15	4	1
179	17	158.14	16	12	12	4	0
179	18	207.99	2	13	13	4	0
179	19	136.85	15	9	9	5	0
179	20	133.33	15	8	8	5	0
179	21	332.04	8	7	7	5	0
179	22	135.61	15	7	7	5	0
179	23	61.87	12	8	8	5	0
179	24	23.78	10	12	12	5	0
180	1	24.45	10	21	21	6	0
180	2	30.35	10	25	25	6	0
180	3	25.63	10	23	23	6	0
180	4	27.57	10	17	17	5	0
180	5	30.65	10	21	21	5	0
180	6	45.43	11	17	17	5	0
180	7	45.96	11	17	17	5	0
180	8	17.17	10	11	11	4	0
180	9	39.95	11	15	15	4	0
180	10	2.61	9	18	18	4	0
180	11	346.29	8	15	15	4	0
180	12	258.68	4	17	17	4	0
180	13	181.46	1	21	21	4	0

180	14	158	16	17	17	4	0
180	15	162.89	16	18	18	3	0
180	16	170.5	1	20	20	3	0
180	17	167.64	16	20	20	4	0
180	18	173.51	1	21	21	4	0
180	19	177.86	1	28	28	4	0
180	20	179.61	1	24	24	4	0
180	21	263.94	5	11	11	5	0
180	22	77.7	12	8	8	5	0
180	23	16.84	10	14	14	5	0
180	24	20.15	10	20	20	5	0
181	1	25.66	10	25	25	5	0
181	2	33.32	10	28	28	5	0
181	3	33.85	11	22	22	5	0
181	4	69.02	12	9	9	5	0
181	5	14.99	10	8	8	5	0
181	6	16.6	10	17	17	5	0
181	7	28.52	10	17	17	5	0
181	8	34.67	11	14	14	4	0
181	9	96.79	13	9	9	4	0
181	10	189.55	1	16	16	4	0
181	11	174.52	1	18	18	4	0
181	12	165.27	16	21	21	3	0
181	13	156.79	16	20	20	2	0
181	14	161.47	16	24	24	2	0
181	15	156.65	16	22	22	2	0
181	16	161.28	16	21	21	3	0
181	17	164.15	16	22	22	4	0
181	18	56.12	11	28	28	4	7
181	19	111.96	14	20	20	5	28
181	20	195.26	2	11	11	5	0
181	21	192.36	2	7	7	4	0
181	22	237.67	4	7	7	5	0
181	23	81.75	13	7	7	5	0
181	24	50.49	11	7	7	5	0
182	1	27.6	10	17	17	5	0
182	2	98.88	13	13	13	5	0
182	3	39	11	12	12	5	0
182	4	111.14	14	10	10	5	0
182	5	23.48	10	13	13	5	0
182	6	29.23	10	16	16	4	0
182	7	24.85	10	13	13	4	0
182	8	3.25	9	23	23	4	0
182	9	2.58	9	26	26	4	0
182	10	336.66	8	21	21	3	0
182	11	344.78	8	20	20	2	0
182	12	300.24	6	23	23	1	0
182	13	322.99	7	22	22	1	0
182	14	336.39	8	20	20	2	0

182	15	343.97	8	23	23	3	0
182	16	335.47	8	20	20	4	0
182	17	336.84	8	16	16	4	0
182	18	243.11	4	14	14	4	0
182	19	226.03	3	10	10	4	0
182	20	251.85	4	10	10	5	0
182	21	231.08	3	6	6	6	0
182	22	83.18	13	12	12	6	0
182	23	50.81	11	12	12	6	0
182	24	29.3	10	16	16	6	0
183	1	42.82	11	17	17	6	0
183	2	32.98	10	13	13	6	0
183	3	46.91	11	20	20	6	0
183	4	31.23	10	13	13	5	0
183	5	38.26	11	14	14	6	0
183	6	30.17	10	13	13	5	0
183	7	26.05	10	14	14	5	0
183	8	35.02	11	12	12	4	0
183	9	233.81	3	11	11	4	0
183	10	12.61	10	14	14	4	0
183	11	340.73	8	13	13	4	0
183	12	5.03	9	15	15	4	0
183	13	348.38	8	15	15	4	0
183	14	335.75	8	14	14	4	0
183	15	186.81	1	16	16	4	0
183	16	186.55	1	19	19	4	0
183	17	181.01	1	18	18	4	0
183	18	175.24	1	18	18	4	0
183	19	173.14	1	7	7	4	0
183	20	196.07	2	5	5	5	0
183	21	186.15	1	7	7	5	0
183	22	0.33	9	10	10	5	0
183	23	359.49	9	10	10	5	0
183	24	357.82	9	7	7	6	0
184	1	0.67	9	7	7	6	0
184	2	12.73	10	11	11	6	0
184	3	19.65	10	14	14	6	0
184	4	23.21	10	13	13	6	0
184	5	17.63	10	10	10	6	0
184	6	19.28	10	11	11	6	0
184	7	38.35	11	8	8	5	0
184	8	236.06	3	11	11	5	0
184	9	194.07	2	13	13	4	0
184	10	188.05	1	14	14	4	0
184	11	192.7	2	19	19	4	0
184	12	188.98	1	22	22	4	0
184	13	180.75	1	20	20	4	0
184	14	176.57	1	20	20	4	0
184	15	163.67	16	15	15	4	0

184	16	192.36	2	14	14	4	0
184	17	193.49	2	19	19	4	0
184	18	231.71	3	16	16	4	0
184	19	207.44	2	15	15	4	0
184	20	183.26	1	11	11	5	0
184	21	148.75	16	6	6	5	0
184	22	222.16	3	7	7	5	0
184	23	0.6	9	8	8	5	0
184	24	358.31	9	12	12	5	0
185	1	351	9	11	11	6	0
185	2	40.65	11	7	7	6	0
185	3	11.14	9	8	8	6	0
185	4	0.7	9	7	7	6	0
185	5	10.95	9	9	9	5	0
185	6	359.53	9	9	9	5	0
185	7	10.44	9	7	7	5	0
185	8	233.5	3	10	10	4	0
185	9	187.65	1	16	16	4	0
185	10	195.11	2	15	15	4	0
185	11	243.01	4	14	14	4	0
185	12	206.18	2	14	14	4	0
185	13	166.92	16	16	16	4	0
185	14	176.45	1	15	15	4	0
185	15	198.35	2	11	11	5	0
185	16	165.72	16	9	9	5	0
185	17	165.98	16	8	8	5	1
185	18	176.8	1	14	14	5	15
185	19	188.47	1	9	9	5	4
185	20	181.19	1	11	11	5	0
185	21	181.94	1	13	13	4	0
185	22	199.51	2	9	9	5	0
185	23	191.19	1	11	11	5	0
185	24	189.16	1	18	18	5	0
186	1	185.75	1	15	15	5	0
186	2	182.33	1	6	6	5	0
186	3	181.77	1	5	5	5	0
186	4	177.41	1	9	9	5	0
186	5	196.02	2	6	6	5	0
186	6	31.87	10	7	7	5	0
186	7	145.24	15	7	7	4	0
186	8	176.03	1	9	9	4	0
186	9	144.29	15	8	8	4	0
186	10	178.45	1	12	12	4	0
186	11	196.7	2	13	13	4	0
186	12	114.75	14	11	11	4	0
186	13	219.01	3	14	14	4	0
186	14	184.49	1	22	22	4	0
186	15	167.82	16	16	16	3	0
186	16	175.44	1	17	17	4	0

186	17	166.09	16	12	12	4	0
186	18	205.71	2	9	9	4	0
186	19	211.81	2	15	15	4	0
186	20	230.09	3	14	14	5	0
186	21	256.6	4	13	13	5	0
186	22	268.04	5	14	14	5	0
186	23	320.98	7	16	16	5	0
186	24	5.03	9	18	18	5	0
187	1	24.57	10	20	20	4	0
187	2	351.62	9	14	14	4	0
187	3	313.01	7	11	11	4	0
187	4	119.78	14	9	9	5	0
187	5	55.81	11	13	13	5	0
187	6	35.38	11	20	20	4	0
187	7	12.61	10	21	21	4	0
187	8	5.91	9	17	17	4	0
187	9	0.4	9	20	20	4	0
187	10	1.81	9	22	22	4	0
187	11	358.39	9	26	26	4	0
187	12	1.24	9	25	25	3	0
187	13	358.64	9	27	27	3	0
187	14	338.27	8	23	23	3	0
187	15	334.8	8	22	22	2	0
187	16	358.48	9	24	24	3	0
187	17	358.25	9	23	23	4	0
187	18	358.84	9	24	24	4	0
187	19	2.07	9	23	23	4	0
187	20	2.75	9	23	23	4	0
187	21	6.84	9	24	24	4	0
187	22	27.01	10	13	13	5	0
187	23	28.17	10	14	14	5	0
187	24	56.15	11	14	14	5	0
188	1	17.27	10	21	21	5	0
188	2	17.68	10	33	33	4	0
188	3	20.56	10	36	36	4	0
188	4	23.51	10	31	31	4	0
188	5	19.77	10	30	30	4	0
188	6	30.38	10	21	21	4	0
188	7	20.66	10	22	22	4	0
188	8	6.13	9	27	27	4	0
188	9	359.48	9	25	25	3	0
188	10	358.12	9	23	23	3	0
188	11	355.33	9	23	23	3	0
188	12	9.45	9	27	27	3	0
188	13	5.66	9	29	29	3	0
188	14	15.65	10	28	28	3	0
188	15	11.72	10	22	22	4	0
188	16	22.71	10	16	16	4	0
188	17	356.74	9	13	13	4	0

188	18	359.01	9	19	19	4	0
188	19	10.75	9	31	31	4	0
188	20	16.04	10	29	29	4	0
188	21	4.69	9	22	22	4	0
188	22	30.72	10	12	12	5	0
188	23	27.88	10	14	14	5	0
188	24	21.82	10	19	19	5	0
189	1	30.7	10	22	22	5	0
189	2	54.62	11	17	17	5	0
189	3	44.79	11	13	13	5	0
189	4	21.49	10	21	21	5	0
189	5	9.36	9	28	28	4	0
189	6	9.14	9	29	29	4	0
189	7	8.82	9	34	34	4	0
189	8	3.73	9	38	38	4	0
189	9	6.36	9	30	30	3	0
189	10	12.14	10	34	34	2	0
189	11	4.89	9	32	32	2	0
189	12	7.5	9	32	32	2	0
189	13	1.14	9	25	25	3	0
189	14	4.41	9	26	26	3	0
189	15	4.24	9	34	34	4	0
189	16	2.48	9	36	36	4	0
189	17	358.48	9	28	28	4	0
189	18	2.66	9	24	24	4	0
189	19	354.9	9	26	26	4	0
189	20	2.1	9	23	23	4	0
189	21	359.38	9	23	23	4	0
189	22	358.94	9	29	29	4	0
189	23	338.35	8	21	21	4	0
189	24	353.6	9	16	16	4	0
190	1	343.44	8	16	16	4	0
190	2	6.18	9	17	17	4	0
190	3	63.11	12	12	12	5	0
190	4	71.34	12	9	9	5	0
190	5	17.77	10	19	19	5	0
190	6	9.92	9	22	22	4	0
190	7	359.37	9	18	18	4	0
190	8	2.19	9	23	23	4	0
190	9	359.06	9	28	28	3	0
190	10	359.95	9	31	31	3	0
190	11	2.85	9	29	29	2	0
190	12	6.5	9	32	32	2	0
190	13	26.37	10	26	26	3	0
190	14	27.26	10	21	21	4	0
190	15	24.59	10	22	22	4	0
190	16	349.22	9	17	17	4	0
190	17	345.59	8	20	20	3	0
190	18	350.47	9	17	17	4	0

190	19	241.57	4	11	11	4	0
190	20	246.75	4	10	10	5	0
190	21	49.07	11	9	9	5	0
190	22	58.4	12	11	11	5	0
190	23	47.3	11	9	9	6	0
190	24	31.39	10	12	12	6	0
191	1	59.56	12	9	9	6	0
191	2	25.56	10	8	8	6	0
191	3	1.3	9	8	8	6	0
191	4	3.19	9	8	8	6	0
191	5	19.22	10	12	12	6	0
191	6	16.33	10	6	6	5	0
191	7	36.75	11	11	11	5	0
191	8	180.09	1	13	13	4	0
191	9	179.46	1	18	18	4	0
191	10	167.52	16	19	19	3	0
191	11	183.16	1	26	26	3	0
191	12	201.3	2	33	33	2	0
191	13	197.3	2	35	35	3	0
191	14	197.73	2	32	32	4	0
191	15	196.37	2	29	29	4	0
191	16	190.63	1	25	25	4	0
191	17	186.46	1	17	17	5	0
191	18	240.76	4	10	10	5	0
191	19	185.88	1	22	22	5	0
191	20	195.4	2	20	20	5	0
191	21	200.21	2	12	12	5	0
191	22	189.88	1	10	10	5	0
191	23	180.43	1	24	24	5	0
191	24	188.69	1	28	28	5	0
192	1	187.66	1	32	32	5	0
192	2	177.85	1	20	20	5	0
192	3	178.53	1	8	8	5	0
192	4	193.54	2	18	18	5	0
192	5	186.02	1	25	25	5	0
192	6	179.62	1	11	11	5	0
192	7	158.9	16	12	12	4	0
192	8	209.36	2	20	20	4	0
192	9	252.77	4	24	24	4	0
192	10	254.67	4	23	23	2	0
192	11	248.43	4	22	22	2	0
192	12	250.69	4	24	24	2	0
192	13	271.29	5	22	22	3	0
192	14	251.24	4	22	22	3	0
192	15	256.87	4	19	19	4	0
192	16	255.51	4	14	14	4	0
192	17	254.24	4	14	14	4	0
192	18	245.68	4	13	13	4	0
192	19	309.26	7	14	14	4	0

192	20	350.7	9	23	23	4	0
192	21	355.78	9	24	24	4	0
192	22	350.3	9	17	17	4	0
192	23	5.21	9	22	22	4	0
192	24	9.69	9	26	26	4	0
193	1	12.35	10	17	17	4	0
193	2	7.53	9	11	11	5	0
193	3	44.16	11	9	9	5	0
193	4	64.65	12	9	9	5	0
193	5	32.86	10	14	14	5	0
193	6	10.48	9	21	21	5	0
193	7	34.55	11	19	19	4	0
193	8	33.81	11	19	19	4	0
193	9	7.52	9	35	35	4	0
193	10	4.86	9	32	32	3	0
193	11	5.62	9	31	31	2	0
193	12	8.89	9	24	24	3	0
193	13	354.11	9	22	22	2	0
193	14	335.58	8	18	18	2	0
193	15	337.37	8	17	17	3	0
193	16	345.44	8	19	19	3	0
193	17	0.04	9	19	19	4	0
193	18	3.53	9	20	20	4	0
193	19	1.09	9	16	16	4	0
193	20	354.82	9	16	16	4	0
193	21	1.56	9	18	18	4	0
193	22	9.7	9	21	21	4	0
193	23	29.49	10	15	15	5	0
193	24	19.5	10	19	19	5	0
194	1	17	10	27	27	5	0
194	2	14.37	10	33	33	4	0
194	3	13.27	10	30	30	4	0
194	4	10.59	9	24	24	4	0
194	5	9.41	9	24	24	4	0
194	6	16.73	10	20	20	4	0
194	7	17.71	10	26	26	4	0
194	8	15.08	10	30	30	4	0
194	9	5.48	9	31	31	3	0
194	10	2.44	9	31	31	2	0
194	11	359.59	9	31	31	2	0
194	12	0.45	9	28	28	1	0
194	13	4.33	9	31	31	2	0
194	14	0.35	9	28	28	1	0
194	15	359.96	9	26	26	2	0
194	16	2.86	9	29	29	2	0
194	17	1.21	9	24	24	3	0
194	18	2.95	9	18	18	4	0
194	19	298.12	6	9	9	4	0
194	20	309.69	7	6	6	5	0

194	21	16.95	10	13	13	5	0
194	22	16.84	10	15	15	6	0
194	23	22.4	10	14	14	6	0
194	24	23.21	10	9	9	6	0
195	1	14.69	10	12	12	6	0
195	2	27.4	10	15	15	6	0
195	3	52.27	11	8	8	6	0
195	4	10.65	9	10	10	6	0
195	5	24.36	10	16	16	6	0
195	6	28.35	10	24	24	6	0
195	7	29.79	10	22	22	5	0
195	8	30.43	10	17	17	4	0
195	9	8.53	9	12	12	4	0
195	10	272.18	5	13	13	4	0
195	11	191.35	2	20	20	4	0
195	12	175.12	1	21	21	4	0
195	13	176.58	1	20	20	4	0
195	14	183.36	1	24	24	3	0
195	15	174.34	1	22	22	3	0
195	16	191.61	2	25	25	2	0
195	17	191.36	2	27	27	4	0
195	18	170.29	1	27	27	4	0
195	19	166.06	16	21	21	4	0
195	20	160.12	16	12	12	5	0
195	21	180.91	1	26	26	5	0
195	22	185.89	1	26	26	5	0
195	23	183.87	1	19	19	5	0
195	24	178.13	1	11	11	5	0
196	1	172.68	1	12	12	5	0
196	2	160.4	16	8	8	5	0
196	3	133.01	15	6	6	5	0
196	4	42.38	11	7	7	5	0
196	5	354.36	9	7	7	5	0
196	6	356.49	9	7	7	5	0
196	7	10.83	9	6	6	5	0
196	8	153.45	16	10	10	4	0
196	9	185.27	1	14	14	4	0
196	10	183.31	1	19	19	4	0
196	11	182.18	1	27	27	3	0
196	12	181.66	1	28	28	4	0
196	13	180.13	1	29	29	4	0
196	14	173.07	1	34	34	4	0
196	15	180.84	1	39	39	4	8
196	16	176.53	1	34	34	4	0
196	17	164.45	16	19	19	4	0
196	18	170.18	1	25	25	4	0
196	19	171.71	1	20	20	4	0
196	20	175.73	1	22	22	4	0
196	21	148.32	16	10	10	5	0

196	22	167.19	16	11	11	4	0
196	23	119.21	14	9	9	5	4
196	24	160.98	16	11	11	5	0
197	1	149.09	16	10	10	5	0
197	2	151.91	16	12	12	5	0
197	3	134.43	15	9	9	5	0
197	4	106.84	14	9	9	4	9
197	5	75.88	12	15	15	5	3
197	6	77.13	12	17	17	5	0
197	7	153.6	16	20	20	4	16
197	8	162.8	16	13	13	4	26
197	9	165.84	16	18	18	4	13
197	10	153.74	16	24	24	4	3
197	11	157.82	16	30	30	4	0
197	12	168.18	16	23	23	4	0
197	13	171.29	1	33	33	4	0
197	14	164.2	16	21	21	4	0
197	15	172.66	1	25	25	4	12
197	16	131.27	15	13	13	4	0
197	17	68.12	12	12	12	4	0
197	18	53.99	11	11	11	4	0
197	19	49.2	11	11	11	5	0
197	20	47.21	11	13	13	5	0
197	21	59.13	12	8	8	5	0
197	22	91.73	13	10	10	5	0
197	23	60.4	12	12	12	5	0
197	24	59.28	12	16	16	4	0
198	1	66.23	12	17	17	4	0
198	2	72.65	12	12	12	4	0
198	3	85.08	13	9	9	5	0
198	4	130.68	15	11	11	5	0
198	5	184.85	1	17	17	4	0
198	6	181.18	1	9	9	4	0
198	7	176.63	1	17	17	4	0
198	8	184.34	1	21	21	4	0
198	9	178.57	1	21	21	4	0
198	10	176.56	1	20	20	4	0
198	11	177.18	1	22	22	4	0
198	12	179.16	1	22	22	4	0
198	13	167.87	16	20	20	3	0
198	14	169.8	1	20	20	3	0
198	15	163.94	16	19	19	3	0
198	16	174.74	1	25	25	3	0
198	17	169.4	1	23	23	4	0
198	18	178.56	1	29	29	4	0
198	19	187.39	1	24	24	4	0
198	20	187.36	1	15	15	4	0
198	21	216.31	3	8	8	5	0
198	22	302.09	6	6	6	5	0

198	23	109.3	14	6	6	5	0
198	24	179.52	1	5	5	5	0
199	1	25.18	10	16	16	5	0
199	2	30.34	10	20	20	5	0
199	3	25.2	10	17	17	5	0
199	4	33.52	10	23	23	5	0
199	5	32.47	10	15	15	5	0
199	6	55.41	11	13	13	5	0
199	7	35.75	11	10	10	4	0
199	8	7.85	9	11	11	4	0
199	9	345.1	8	9	9	4	0
199	10	231.16	3	14	14	4	0
199	11	192.56	2	21	21	4	0
199	12	189.53	1	25	25	4	0
199	13	190.59	1	21	21	4	0
199	14	182.3	1	18	18	3	0
199	15	170.97	1	29	29	2	0
199	16	173.51	1	31	31	4	0
199	17	176.04	1	17	17	4	2
199	18	171.59	1	20	20	4	0
199	19	173.68	1	19	19	4	0
199	20	174.1	1	12	12	4	0
199	21	170.21	1	13	13	4	0
199	22	182.73	1	16	16	4	0
199	23	202.06	2	13	13	4	0
199	24	206.93	2	9	9	4	0
200	1	179.64	1	13	13	4	0
200	2	194.12	2	10	10	5	0
200	3	190.06	1	8	8	5	0
200	4	202.52	2	15	15	5	0
200	5	192.96	2	17	17	4	0
200	6	196.14	2	14	14	4	0
200	7	187.39	1	15	15	4	0
200	8	186.43	1	22	22	4	16
200	9	166.8	16	12	12	4	0
200	10	172.67	1	16	16	4	0
200	11	178.97	1	16	16	4	0
200	12	194.92	2	24	24	4	0
200	13	233.83	3	29	29	4	0
200	14	252.78	4	22	22	4	0
200	15	249.62	4	27	27	4	0
200	16	260.87	5	23	23	3	0
200	17	262.43	5	22	22	4	0
200	18	267	5	15	15	4	0
200	19	348.51	8	16	16	4	0
200	20	359.09	9	24	24	4	0
200	21	356.87	9	26	26	4	0
200	22	1.72	9	32	32	4	0
200	23	2.67	9	32	32	4	0

200	24	11.62	10	28	28	4	0
201	1	16.63	10	21	21	4	0
201	2	5.35	9	20	20	4	0
201	3	7.14	9	19	19	4	0
201	4	48.56	11	15	15	5	0
201	5	201.14	2	9	9	5	0
201	6	172.39	1	7	7	5	0
201	7	31.78	10	13	13	4	0
201	8	22.96	10	18	18	4	0
201	9	349.07	9	15	15	4	0
201	10	118.44	14	10	10	4	0
201	11	12.23	10	12	12	4	0
201	12	5.52	9	10	10	4	0
201	13	202.58	2	10	10	4	2
201	14	209.67	2	15	15	4	1
201	15	208.56	2	14	14	4	0
201	16	194.71	2	18	18	4	0
201	17	193.76	2	18	18	4	0
201	18	188	1	11	11	4	0
201	19	198.96	2	11	11	4	0
201	20	185.85	1	11	11	4	0
201	21	173.55	1	9	9	4	0
201	22	179.43	1	9	9	4	0
201	23	174.92	1	9	9	4	0
201	24	45.68	11	12	12	4	0
202	1	37.65	11	17	17	4	0
202	2	37.41	11	17	17	4	0
202	3	30.24	10	22	22	5	0
202	4	30.16	10	19	19	5	0
202	5	34.24	11	20	20	5	0
202	6	25.95	10	27	27	4	0
202	7	14.28	10	32	32	4	0
202	8	9.23	9	29	29	4	0
202	9	19.29	10	35	35	4	0
202	10	3.06	9	29	29	3	0
202	11	2.55	9	24	24	4	0
202	12	353.81	9	21	21	3	0
202	13	1.16	9	22	22	3	0
202	14	9.78	9	23	23	3	0
202	15	3.92	9	25	25	3	0
202	16	0.5	9	21	21	3	0
202	17	10.98	9	17	17	4	0
202	18	337.65	8	13	13	4	0
202	19	339.77	8	8	8	4	0
202	20	9.14	9	8	8	5	0
202	21	19.82	10	18	18	5	0
202	22	21.62	10	23	23	5	0
202	23	24.44	10	20	20	6	0
202	24	30.43	10	17	17	6	0

203	1	57.41	12	10	10	6	0
203	2	25.9	10	17	17	6	0
203	3	30.31	10	27	27	6	0
203	4	29.17	10	25	25	6	0
203	5	37.76	11	14	14	5	0
203	6	26.17	10	13	13	5	0
203	7	28.72	10	18	18	5	0
203	8	24.12	10	13	13	4	0
203	9	259.49	5	10	10	4	0
203	10	188.3	1	19	19	4	0
203	11	178.74	1	20	20	3	0
203	12	169.79	1	21	21	3	0
203	13	186.75	1	34	34	4	0
203	14	194.28	2	31	31	3	0
203	15	198.21	2	28	28	4	0
203	16	196.46	2	24	24	4	0
203	17	177.49	1	20	20	4	0
203	18	165.57	16	20	20	4	0
203	19	93.82	13	30	30	4	14
203	20	26.59	10	28	28	5	0
203	21	25.07	10	16	16	5	0
203	22	77.99	12	10	10	5	0
203	23	35.33	11	9	9	5	0
203	24	167.62	16	7	7	5	0
204	1	357.29	9	11	11	5	0
204	2	72.59	12	11	11	5	0
204	3	184.17	1	8	8	5	0
204	4	217.08	3	11	11	5	0
204	5	89.38	13	8	8	5	0
204	6	101	13	7	7	5	0
204	7	117.9	14	10	10	5	0
204	8	45.03	11	14	14	4	0
204	9	52.53	11	15	15	4	0
204	10	329.77	8	19	19	2	0
204	11	331.64	8	19	19	2	0
204	12	266.44	5	21	21	1	0
204	13	238.33	4	27	27	2	0
204	14	260.49	5	25	25	2	0
204	15	258.26	4	25	25	2	0
204	16	259.42	5	24	24	4	0
204	17	256.28	4	19	19	4	0
204	18	299.95	6	15	15	4	0
204	19	250.37	4	12	12	4	0
204	20	244.43	4	11	11	5	0
204	21	130.89	15	8	8	5	0
204	22	62.51	12	12	12	5	0
204	23	56.18	11	11	11	5	0
204	24	37.3	11	14	14	5	0
205	1	71.27	12	12	12	5	0

205	2	54.34	11	16	16	5	0
205	3	55.14	11	15	15	5	0
205	4	43.51	11	14	14	5	0
205	5	83.36	13	14	14	5	0
205	6	80.65	13	16	16	5	0
205	7	60.83	12	15	15	4	0
205	8	65.96	12	12	12	4	0
205	9	12.84	10	27	27	3	0
205	10	12.9	10	25	25	3	0
205	11	28.78	10	21	21	4	0
205	12	2.88	9	20	20	4	0
205	13	8.8	9	23	23	3	0
205	14	8.92	9	18	18	4	0
205	15	4.13	9	15	15	4	0
205	16	239.67	4	16	16	3	0
205	17	263.43	5	14	14	3	0
205	18	339.41	8	11	11	4	0
205	19	319.26	7	8	8	5	0
205	20	333.03	8	8	8	5	0
205	21	25.69	10	15	15	5	0
205	22	31.6	10	20	20	6	0
205	23	26.21	10	19	19	6	0
205	24	26.83	10	23	23	6	0
206	1	19.67	10	21	21	6	0
206	2	29.64	10	29	29	6	0
206	3	31.51	10	29	29	5	0
206	4	34.64	11	23	23	6	0
206	5	30.6	10	25	25	6	0
206	6	31.06	10	30	30	5	0
206	7	31.57	10	24	24	5	0
206	8	32.55	10	26	26	4	0
206	9	29.34	10	15	15	4	0
206	10	359.32	9	15	15	4	0
206	11	6.32	9	16	16	4	0
206	12	2.15	9	14	14	4	0
206	13	356.43	9	17	17	4	0
206	14	28.07	10	13	13	4	0
206	15	94.45	13	13	13	4	0
206	16	136.03	15	10	10	4	0
206	17	111.7	14	8	8	4	0
206	18	81.74	13	9	9	4	0
206	19	80.83	13	10	10	4	0
206	20	117.42	14	7	7	5	0
206	21	27.2	10	10	10	5	0
206	22	16.64	10	9	9	5	0
206	23	31.92	10	10	10	5	0
206	24	37.93	11	13	13	5	0
207	1	29.43	10	17	17	5	0
207	2	21.26	10	21	21	5	0

207	3	36.16	11	16	16	5	0
207	4	31.83	10	12	12	5	0
207	5	27.59	10	17	17	5	0
207	6	64.82	12	8	8	4	0
207	7	77.14	12	8	8	4	0
207	8	73.2	12	9	9	4	0
207	9	83.59	13	10	10	4	0
207	10	83.44	13	12	12	4	0
207	11	69.81	12	15	15	4	0
207	12	143.12	15	11	11	4	0
207	13	49.53	11	13	13	4	0
207	14	172.71	1	18	18	4	0
207	15	183.12	1	22	22	4	0
207	16	182.19	1	19	19	4	0
207	17	173.87	1	19	19	4	0
207	18	167.13	16	19	19	4	0
207	19	127.91	15	12	12	4	0
207	20	145.37	15	12	12	4	0
207	21	107.28	14	10	10	4	0
207	22	111.08	14	11	11	4	0
207	23	119.44	14	11	11	4	0
207	24	65.52	12	10	10	4	0
208	1	32.05	10	15	15	4	0
208	2	36.48	11	16	16	4	0
208	3	37.39	11	22	22	4	0
208	4	30.32	10	22	22	4	0
208	5	32.3	10	27	27	4	0
208	6	32.7	10	26	26	4	0
208	7	30.62	10	28	28	4	0
208	8	20.99	10	26	26	4	0
208	9	19.87	10	26	26	4	2
208	10	23.68	10	23	23	4	5
208	11	28.31	10	21	21	4	3
208	12	21.82	10	21	21	4	0
208	13	26.74	10	24	24	4	0
208	14	20.96	10	27	27	4	2
208	15	24.05	10	22	22	4	1
208	16	25.91	10	20	20	4	9
208	17	13.5	10	19	19	4	37
208	18	20.09	10	16	16	4	7
208	19	13.43	10	17	17	4	6
208	20	6.13	9	10	10	4	4
208	21	18.13	10	8	8	4	1
208	22	19.91	10	20	20	4	1
208	23	20.06	10	23	23	4	0
208	24	24.41	10	16	16	4	9
209	1	20.5	10	27	27	4	36
209	2	26.18	10	32	32	4	4
209	3	25.2	10	28	28	4	2

209	4	27.18	10	22	22	4	5
209	5	22.98	10	21	21	4	7
209	6	28.7	10	25	25	4	9
209	7	22.77	10	23	23	4	4
209	8	21.04	10	23	23	4	5
209	9	25.38	10	26	26	4	0
209	10	30.04	10	25	25	4	0
209	11	26.72	10	19	19	4	1
209	12	36.29	11	17	17	4	0
209	13	33.91	11	19	19	4	0
209	14	30.2	10	23	23	4	0
209	15	30.46	10	21	21	4	0
209	16	37.89	11	17	17	4	0
209	17	62.4	12	10	10	4	0
209	18	71.83	12	9	9	4	0
209	19	88.64	13	7	7	4	1
209	20	56.31	12	12	12	4	1
209	21	44.16	11	13	13	4	0
209	22	34.02	11	13	13	4	0
209	23	43.47	11	17	17	4	0
209	24	30.27	10	18	18	4	0
210	1	30.34	10	18	18	4	0
210	2	30.08	10	16	16	4	0
210	3	38.71	11	13	13	4	0
210	4	24.65	10	13	13	4	0
210	5	51.17	11	10	10	4	0
210	6	36.51	11	11	11	4	0
210	7	16.14	10	16	16	4	0
210	8	11.94	10	16	16	4	0
210	9	32.01	10	15	15	4	0
210	10	25.73	10	14	14	4	0
210	11	29.52	10	18	18	4	0
210	12	26.9	10	12	12	4	0
210	13	16.3	10	13	13	4	0
210	14	29.3	10	15	15	4	0
210	15	177.66	1	15	15	4	0
210	16	156.12	16	16	16	3	0
210	17	171.79	1	20	20	4	0
210	18	144.65	15	16	16	4	0
210	19	172.04	1	15	15	4	0
210	20	136.4	15	9	9	4	0
210	21	165.87	16	8	8	4	0
210	22	135.51	15	7	7	4	0
210	23	133.94	15	7	7	5	0
210	24	128.95	15	7	7	5	0
211	1	144.63	15	6	6	5	0
211	2	167.94	16	8	8	5	0
211	3	186.62	1	19	19	4	0
211	4	185.71	1	13	13	4	0

211	5	196.79	2	9	9	4	0
211	6	30.4	10	7	7	4	0
211	7	202.64	2	7	7	4	0
211	8	186.11	1	8	8	4	0
211	9	187.23	1	13	13	4	0
211	10	174.44	1	15	15	4	0
211	11	167.97	16	15	15	4	0
211	12	191.16	1	16	16	4	0
211	13	166.73	16	13	13	4	0
211	14	157.6	16	12	12	4	0
211	15	164.96	16	10	10	4	0
211	16	169.33	1	20	20	4	0
211	17	170.54	1	16	16	4	0
211	18	173.52	1	19	19	4	0
211	19	171.42	1	16	16	4	0
211	20	167.75	16	12	12	4	0
211	21	175.76	1	18	18	4	0
211	22	177.78	1	18	18	4	0
211	23	180.83	1	14	14	4	0
211	24	164.93	16	9	9	4	0
212	1	122.18	14	6	6	5	0
212	2	129.76	15	7	7	5	0
212	3	80.07	13	8	8	5	0
212	4	139.82	15	7	7	5	0
212	5	112.75	14	5	5	5	0
212	6	84.95	13	7	7	5	0
212	7	52.18	11	9	9	4	0
212	8	77.04	12	7	7	4	0
212	9	90.19	13	7	7	4	0
212	10	81.15	13	8	8	4	4
212	11	119.69	14	7	7	4	17
212	12	143.02	15	6	6	4	3
212	13	5.57	9	9	9	4	1
212	14	7.01	9	13	13	4	0
212	15	35.27	11	15	15	4	0
212	16	60.19	12	15	15	4	0
212	17	70.32	12	12	12	4	0
212	18	95.71	13	8	8	4	0
212	19	63.6	12	6	6	4	0
212	20	139.76	15	5	5	4	0
212	21	142.32	15	5	5	4	0
212	22	63.07	12	7	7	4	0
212	23	129.33	15	6	6	4	0
212	24	94.94	13	6	6	4	0
213	1	122.18	14	7	7	4	0
213	2	101.96	14	6	6	4	0
213	3	26.52	10	8	8	4	0
213	4	39.95	11	11	11	4	0
213	5	49.2	11	9	9	4	0

213	6	21.6	10	9	9	4	0
213	7	22.28	10	11	11	4	0
213	8	42.97	11	12	12	4	0
213	9	29.9	10	19	19	4	0
213	10	38.32	11	20	20	4	0
213	11	53.07	11	19	19	4	0
213	12	76.73	12	15	15	4	0
213	13	131.9	15	11	11	4	0
213	14	105.94	14	12	12	4	0
213	15	76.62	12	16	16	4	0
213	16	74.74	12	16	16	4	0
213	17	91.88	13	14	14	4	0
213	18	86.18	13	16	16	4	0
213	19	99.97	13	13	13	4	0
213	20	83.34	13	13	13	4	0
213	21	80.37	13	13	13	4	0
213	22	142.81	15	10	10	4	0
213	23	100.25	13	12	12	4	0
213	24	82.69	13	9	9	4	0
214	1	49.23	11	11	11	4	0
214	2	45.53	11	13	13	4	0
214	3	34.61	11	16	16	4	0
214	4	30.62	10	21	21	4	0
214	5	21.73	10	17	17	4	3
214	6	26.22	10	12	12	4	0
214	7	349.82	9	10	10	4	0
214	8	32.51	10	12	12	4	1
214	9	29.43	10	14	14	4	0
214	10	25.68	10	16	16	4	0
214	11	57.2	12	8	8	4	0
214	12	202.16	2	13	13	4	0
214	13	174.51	1	9	9	4	1
214	14	194.73	2	14	14	4	0
214	15	184.94	1	11	11	4	0
214	16	185.2	1	17	17	4	0
214	17	170.34	1	13	13	4	0
214	18	190.53	1	13	13	4	0
214	19	194.9	2	6	6	4	0
214	20	78.73	12	5	5	4	0
214	21	103.69	14	5	5	5	0
214	22	102.08	14	5	5	4	0
214	23	134.5	15	6	6	4	1
214	24	183.25	1	13	13	4	0
215	1	208.12	2	10	10	4	0
215	2	164.11	16	8	8	4	0
215	3	109.42	14	6	6	4	0
215	4	181.19	1	7	7	4	0
215	5	189.91	1	7	7	4	0
215	6	194.9	2	11	11	4	0

215	7	198.78	2	12	12	4	0
215	8	196.27	2	9	9	4	0
215	9	175.22	1	11	11	4	0
215	10	173.15	1	16	16	4	0
215	11	172.97	1	20	20	4	0
215	12	178.09	1	20	20	4	0
215	13	178.86	1	22	22	4	0
215	14	177.53	1	27	27	3	0
215	15	174.69	1	23	23	4	0
215	16	189.51	1	37	37	4	0
215	17	192.91	2	36	36	4	0
215	18	192.01	2	29	29	4	0
215	19	192.24	2	16	16	5	0
215	20	225.79	3	10	10	5	0
215	21	162.72	16	5	5	5	0
215	22	178.65	1	12	12	5	0
215	23	173.05	1	12	12	5	0
215	24	181.02	1	15	15	5	0
216	1	177.08	1	18	18	5	0
216	2	179.82	1	20	20	5	0
216	3	178.61	1	16	16	5	1
216	4	181.95	1	18	18	5	8
216	5	175.62	1	9	9	5	0
216	6	198	2	18	18	5	0
216	7	202.59	2	17	17	5	0
216	8	191.75	2	17	17	4	0
216	9	187.06	1	23	23	4	0
216	10	187.61	1	23	23	4	0
216	11	181.58	1	23	23	4	0
216	12	167.11	16	15	15	4	0
216	13	177.28	1	21	21	4	0
216	14	178.07	1	29	29	4	0
216	15	184.32	1	36	36	4	0
216	16	185.11	1	28	28	4	0
216	17	189.31	1	28	28	4	0
216	18	194.45	2	21	21	4	0
216	19	61.04	12	16	16	5	27
216	20	67.09	12	9	9	4	6
216	21	168.29	16	11	11	4	0
216	22	208.12	2	15	15	4	0
216	23	188.48	1	12	12	4	0
216	24	188.9	1	17	17	4	0
217	1	187.02	1	16	16	4	0
217	2	193.83	2	9	9	4	0
217	3	169.53	1	5	5	5	0
217	4	280.37	5	10	10	5	0
217	5	24.79	10	16	16	4	0
217	6	12.34	10	26	26	4	0
217	7	5.41	9	29	29	4	0

217	8	12.14	10	24	24	4	0
217	9	3.12	9	22	22	4	0
217	10	5.06	9	21	21	4	0
217	11	21.35	10	26	26	4	0
217	12	12.99	10	29	29	3	0
217	13	13.86	10	27	27	4	0
217	14	29.19	10	27	27	4	0
217	15	36	11	20	20	4	0
217	16	357.44	9	11	11	4	0
217	17	317.06	7	10	10	4	0
217	18	228.97	3	12	12	4	0
217	19	306.4	7	8	8	5	0
217	20	325.63	7	10	10	5	0
217	21	18.3	10	20	20	4	0
217	22	20.11	10	18	18	5	0
217	23	27.21	10	24	24	5	0
217	24	26.92	10	23	23	5	0
218	1	10.9	9	29	29	4	0
218	2	9.7	9	29	29	4	0
218	3	26.1	10	25	25	4	0
218	4	25.78	10	25	25	4	0
218	5	19.12	10	22	22	4	0
218	6	9.45	9	19	19	4	0
218	7	12.53	10	23	23	4	0
218	8	5.41	9	31	31	4	0
218	9	6.86	9	36	36	4	0
218	10	4.26	9	34	34	4	0
218	11	0.84	9	30	30	3	0
218	12	356.66	9	25	25	3	0
218	13	1.75	9	23	23	3	0
218	14	357.45	9	22	22	3	0
218	15	5.09	9	23	23	4	0
218	16	18.7	10	17	17	4	0
218	17	339.79	8	11	11	4	0
218	18	284.43	6	9	9	4	0
218	19	256.97	4	8	8	5	0
218	20	6.24	9	8	8	5	0
218	21	22.37	10	13	13	5	0
218	22	19.53	10	17	17	6	0
218	23	22.13	10	13	13	6	0
218	24	30.44	10	12	12	6	0
219	1	31.68	10	18	18	6	0
219	2	30.1	10	17	17	6	0
219	3	37.58	11	10	10	5	0
219	4	25.54	10	14	14	5	0
219	5	29.81	10	15	15	6	0
219	6	28.71	10	15	15	6	0
219	7	24.84	10	18	18	5	0
219	8	48.9	11	11	11	5	0

219	9	132.47	15	9	9	4	0
219	10	189.99	1	15	15	4	0
219	11	184.87	1	15	15	4	0
219	12	184.73	1	26	26	4	0
219	13	188.49	1	24	24	4	0
219	14	182.68	1	27	27	4	0
219	15	181.84	1	37	37	4	0
219	16	173.64	1	35	35	4	0
219	17	174.94	1	36	36	4	0
219	18	177.12	1	34	34	5	1
219	19	189.02	1	29	29	4	0
219	20	191.38	2	23	23	4	0
219	21	193.9	2	23	23	4	0
219	22	197.43	2	18	18	4	0
219	23	186.72	1	22	22	4	0
219	24	195.59	2	14	14	4	13
220	1	179.95	1	11	11	5	0
220	2	170.06	1	15	15	5	0
220	3	179.9	1	15	15	4	0
220	4	187.34	1	20	20	4	0
220	5	177.19	1	16	16	5	0
220	6	174.2	1	11	11	5	0
220	7	180.39	1	22	22	4	0
220	8	179.81	1	26	26	4	0
220	9	186.94	1	34	34	4	0
220	10	205.13	2	34	34	4	0
220	11	222.67	3	27	27	4	0
220	12	233.43	3	25	25	4	0
220	13	235.49	3	24	24	4	0
220	14	218.93	3	27	27	4	0
220	15	213.94	3	25	25	4	0
220	16	206.87	2	29	29	4	0
220	17	226.21	3	22	22	4	0
220	18	227.29	3	18	18	4	0
220	19	202.94	2	14	14	5	0
220	20	195.28	2	16	16	5	0
220	21	191.22	1	19	19	5	0
220	22	186.65	1	15	15	5	0
220	23	170.22	1	12	12	5	0
220	24	153.02	16	10	10	5	0
221	1	210.15	2	6	6	5	0
221	2	137.11	15	6	6	5	0
221	3	155.25	16	11	11	5	0
221	4	137.71	15	8	8	5	0
221	5	166.19	16	11	11	5	0
221	6	114.18	14	9	9	5	0
221	7	236.04	3	14	14	5	0
221	8	259.5	5	19	19	4	0
221	9	256.27	4	16	16	4	0

221	10	290.95	6	16	16	4	0
221	11	349.2	9	20	20	4	0
221	12	258.17	4	20	20	3	0
221	13	265.66	5	21	21	3	0
221	14	252.14	4	25	25	3	0
221	15	247.53	4	24	24	4	0
221	16	251.53	4	18	18	3	0
221	17	247.79	4	18	18	4	0
221	18	251.9	4	14	14	4	0
221	19	230.52	3	10	10	5	0
221	20	227.34	3	13	13	5	0
221	21	260.3	5	8	8	5	0
221	22	224.73	3	7	7	5	0
221	23	236.5	4	7	7	5	0
221	24	4.67	9	8	8	5	0
222	1	359.86	9	7	7	5	0
222	2	39.45	11	8	8	5	0
222	3	13.38	10	7	7	5	0
222	4	32.5	10	8	8	5	0
222	5	20.61	10	6	6	5	0
222	6	183.75	1	24	24	5	0
222	7	188.01	1	26	26	5	2
222	8	168.83	1	14	14	5	0
222	9	162.89	16	14	14	4	0
222	10	166.86	16	17	17	4	0
222	11	174.52	1	22	22	3	0
222	12	165.7	16	20	20	4	0
222	13	188.87	1	13	13	4	0
222	14	202.7	2	21	21	4	0
222	15	193.93	2	32	32	4	0
222	16	197.76	2	26	26	4	0
222	17	201.14	2	18	18	4	0
222	18	191.29	2	20	20	4	0
222	19	190.9	1	20	20	5	0
222	20	187.43	1	17	17	5	0
222	21	165.29	16	10	10	5	0
222	22	193.15	2	8	8	5	0
222	23	217.06	3	9	9	5	0
222	24	184.39	1	9	9	5	0
223	1	296.29	6	17	17	5	7
223	2	21.68	10	21	21	4	0
223	3	10.21	9	29	29	4	0
223	4	54.66	11	27	27	4	0
223	5	63.02	12	11	11	4	0
223	6	41.94	11	10	10	4	0
223	7	0.66	9	12	12	4	0
223	8	354.15	9	15	15	4	0
223	9	2.23	9	17	17	4	0
223	10	3.2	9	18	18	4	0

223	11	2.47	9	18	18	4	0
223	12	8.11	9	15	15	4	0
223	13	10.2	9	16	16	4	0
223	14	233.47	3	15	15	4	0
223	15	293.23	6	15	15	4	0
223	16	280.31	5	15	15	3	0
223	17	248.83	4	13	13	3	0
223	18	211.79	2	14	14	4	0
223	19	234.39	3	7	7	5	0
223	20	284.31	6	7	7	5	0
223	21	25.43	10	12	12	5	0
223	22	22.17	10	23	23	5	0
223	23	28.24	10	14	14	5	0
223	24	27.34	10	26	26	5	0
224	1	29.86	10	22	22	5	0
224	2	29.79	10	26	26	5	0
224	3	27.54	10	22	22	5	0
224	4	36.52	11	22	22	5	0
224	5	40.23	11	19	19	5	0
224	6	31.47	10	25	25	5	0
224	7	44.11	11	16	16	5	0
224	8	44.9	11	11	11	4	0
224	9	24.45	10	16	16	4	0
224	10	295.9	6	12	12	4	0
224	11	234.64	3	17	17	4	0
224	12	174.65	1	12	12	4	0
224	13	72.35	12	27	27	4	0
224	14	19.43	10	43	43	4	3
224	15	21.16	10	24	24	5	0
224	16	9.4	9	14	14	5	3
224	17	278.87	5	11	11	5	14
224	18	171.13	1	11	11	5	1
224	19	232.88	3	11	11	4	0
224	20	19.18	10	11	11	5	0
224	21	11.05	9	23	23	4	0
224	22	25.97	10	29	29	4	0
224	23	17.9	10	26	26	4	0
224	24	13.73	10	28	28	4	0
225	1	25.6	10	26	26	4	0
225	2	27.71	10	25	25	4	0
225	3	30.96	10	24	24	4	0
225	4	17.11	10	19	19	4	0
225	5	23.3	10	22	22	4	0
225	6	18.51	10	20	20	4	0
225	7	19	10	30	30	4	53
225	8	19.52	10	26	26	4	4
225	9	25.22	10	11	11	4	0
225	10	27.66	10	20	20	4	0
225	11	24.19	10	22	22	4	0

225	12	27.56	10	24	24	4	0
225	13	22.05	10	23	23	4	0
225	14	20.62	10	23	23	4	0
225	15	14	10	20	20	4	0
225	16	10.5	9	17	17	4	0
225	17	16.96	10	19	19	4	0
225	18	25.09	10	17	17	4	0
225	19	29.26	10	21	21	4	0
225	20	25.99	10	23	23	4	0
225	21	20.95	10	23	23	4	0
225	22	86.19	13	11	11	4	0
225	23	29.81	10	19	19	4	0
225	24	50.53	11	15	15	4	0
226	1	30.48	10	17	17	4	0
226	2	30.61	10	23	23	4	0
226	3	23.75	10	30	30	4	0
226	4	20.83	10	33	33	4	0
226	5	19.38	10	33	33	4	0
226	6	21.73	10	32	32	4	0
226	7	18.79	10	33	33	4	0
226	8	19.22	10	32	32	4	0
226	9	18.18	10	33	33	4	0
226	10	19.24	10	35	35	4	0
226	11	16.44	10	28	28	4	0
226	12	25.95	10	30	30	4	0
226	13	30.4	10	36	36	4	0
226	14	27.46	10	34	34	4	0
226	15	38.1	11	34	34	4	0
226	16	33.9	11	34	34	4	0
226	17	55.56	11	25	25	4	0
226	18	61.86	12	14	14	4	0
226	19	56.16	11	15	15	5	0
226	20	26.55	10	32	32	4	0
226	21	20.21	10	27	27	4	0
226	22	23.09	10	21	21	4	0
226	23	21.34	10	20	20	4	0
226	24	23.61	10	24	24	4	0
227	1	16.88	10	26	26	4	0
227	2	10.21	9	31	31	4	0
227	3	17.39	10	37	37	4	0
227	4	18.75	10	35	35	4	0
227	5	16.3	10	35	35	4	0
227	6	18.55	10	36	36	4	0
227	7	14.42	10	34	34	4	0
227	8	16.62	10	40	40	4	0
227	9	14.96	10	44	44	4	0
227	10	17.12	10	43	43	4	0
227	11	15.39	10	37	37	4	0
227	12	10.34	9	33	33	4	0

227	13	10.15	9	36	36	4	0
227	14	34.12	11	26	26	4	0
227	15	136.9	15	21	21	5	24
227	16	16.03	10	44	44	4	5
227	17	16.45	10	44	44	4	0
227	18	14.18	10	48	48	4	0
227	19	21.35	10	37	37	4	0
227	20	17.98	10	42	42	4	0
227	21	12.83	10	38	38	4	0
227	22	11.88	10	33	33	4	0
227	23	14.44	10	40	40	4	0
227	24	15.55	10	30	30	4	0
228	1	13.79	10	33	33	4	0
228	2	11.13	9	34	34	4	0
228	3	10.68	9	28	28	4	1
228	4	13.94	10	31	31	4	0
228	5	25.4	10	28	28	4	0
228	6	15.79	10	26	26	4	0
228	7	17.4	10	23	23	4	0
228	8	3.94	9	26	26	4	0
228	9	7.21	9	25	25	4	0
228	10	16.19	10	31	31	4	0
228	11	1.87	9	27	27	3	0
228	12	1.98	9	21	21	3	0
228	13	0.07	9	22	22	3	0
228	14	3.57	9	25	25	3	0
228	15	352.58	9	19	19	3	0
228	16	359.04	9	19	19	4	0
228	17	5.37	9	17	17	4	0
228	18	357.51	9	12	12	4	0
228	19	183.84	1	6	6	5	0
228	20	226.98	3	6	6	5	0
228	21	41.76	11	9	9	5	0
228	22	17.29	10	9	9	5	0
228	23	23.25	10	8	8	5	0
228	24	15.24	10	5	5	5	0
229	1	17.65	10	4	4	5	0
229	2	251.31	4	5	5	5	0
229	3	198.04	2	12	12	5	0
229	4	182.51	1	19	19	5	0
229	5	193.2	2	20	20	5	31
229	6	179.1	1	18	18	5	43
229	7	217.47	3	5	5	5	0
229	8	204.14	2	9	9	4	0
229	9	182.93	1	18	18	4	0
229	10	234.36	3	17	17	4	0
229	11	245.32	4	21	21	4	0
229	12	273.37	5	27	27	3	0
229	13	330.12	8	27	27	3	0

229	14	295.04	6	25	25	2	0
229	15	329.8	8	26	26	4	0
229	16	347.27	8	27	27	4	0
229	17	311.37	7	22	22	4	0
229	18	302.27	6	20	20	4	0
229	19	310.02	7	16	16	4	0
229	20	288.03	6	16	16	5	0
229	21	340.21	8	22	22	4	0
229	22	347.04	8	18	18	4	0
229	23	292.64	6	14	14	4	0
229	24	279.31	5	15	15	4	0
230	1	289.05	6	21	21	4	0
230	2	267.42	5	17	17	4	0
230	3	265.47	5	21	21	4	0
230	4	298.68	6	20	20	4	0
230	5	354.61	9	16	16	4	0
230	6	2.49	9	19	19	4	0
230	7	266.67	5	18	18	4	0
230	8	276.18	5	19	19	4	0
230	9	344.1	8	22	22	4	0
230	10	337.48	8	23	23	2	0
230	11	355.32	9	24	24	2	0
230	12	296.97	6	22	22	1	0
230	13	309.87	7	19	19	1	0
230	14	320.69	7	19	19	1	0
230	15	308.24	7	17	17	2	0
230	16	271.08	5	17	17	3	0
230	17	248.12	4	16	16	4	0
230	18	248.63	4	11	11	4	0
230	19	232.31	3	12	12	5	0
230	20	227.82	3	9	9	5	0
230	21	86.96	13	9	9	5	0
230	22	41.5	11	13	13	5	0
230	23	42.3	11	13	13	5	0
230	24	23.91	10	25	25	5	0
231	1	28.27	10	25	25	5	0
231	2	33.54	10	18	18	5	0
231	3	36.39	11	16	16	5	0
231	4	29.92	10	26	26	5	0
231	5	28.74	10	24	24	5	0
231	6	33.11	10	21	21	5	0
231	7	29	10	21	21	4	0
231	8	21.44	10	18	18	4	0
231	9	20.44	10	16	16	4	0
231	10	45.18	11	9	9	4	0
231	11	142.63	15	7	7	4	0
231	12	171.09	1	10	10	4	0
231	13	204.28	2	6	6	4	0
231	14	123.98	15	9	9	4	0

231	15	168.34	16	10	10	4	0
231	16	22.05	10	11	11	4	0
231	17	14.41	10	12	12	4	0
231	18	10.14	9	17	17	4	0
231	19	8.5	9	17	17	4	0
231	20	5.51	9	19	19	4	0
231	21	9.44	9	18	18	4	0
231	22	11.29	10	17	17	4	0
231	23	3.3	9	14	14	4	0
231	24	15.21	10	17	17	4	0
232	1	35.38	11	10	10	5	0
232	2	13.3	10	18	18	4	0
232	3	59.92	12	10	10	5	0
232	4	14.28	10	20	20	4	0
232	5	31.08	10	16	16	5	0
232	6	138.01	15	12	12	5	0
232	7	21.07	10	18	18	4	0
232	8	4.33	9	25	25	4	0
232	9	359.68	9	24	24	4	0
232	10	4.51	9	33	33	4	0
232	11	0.55	9	24	24	3	0
232	12	7.78	9	25	25	3	0
232	13	356.5	9	20	20	3	0
232	14	5.42	9	27	27	3	0
232	15	19.44	10	20	20	4	0
232	16	7.95	9	19	19	4	0
232	17	359.72	9	18	18	4	0
232	18	346.05	8	15	15	4	0
232	19	2.29	9	15	15	4	0
232	20	14.56	10	16	16	5	0
232	21	29.14	10	21	21	5	0
232	22	32.31	10	22	22	5	0
232	23	40.1	11	16	16	5	0
232	24	17.88	10	15	15	4	0
233	1	5.79	9	23	23	4	0
233	2	337.46	8	22	22	4	0
233	3	348.48	8	25	25	4	0
233	4	5.84	9	23	23	4	0
233	5	12	10	26	26	4	0
233	6	5.04	9	19	19	4	0
233	7	9.27	9	27	27	4	0
233	8	11.89	10	22	22	4	0
233	9	24.83	10	24	24	4	0
233	10	8.02	9	31	31	3	0
233	11	7.38	9	29	29	3	0
233	12	351.38	9	22	22	2	0
233	13	9.3	9	28	28	3	0
233	14	15	10	27	27	3	0
233	15	11.24	9	26	26	3	0

233	16	20	10	28	28	4	0
233	17	22.01	10	26	26	4	0
233	18	20.93	10	24	24	4	0
233	19	18.27	10	24	24	4	0
233	20	27.43	10	22	22	4	0
233	21	22.87	10	18	18	5	0
233	22	26.81	10	20	20	5	0
233	23	19.97	10	22	22	5	0
233	24	28.91	10	26	26	5	0
234	1	34.36	11	29	29	6	0
234	2	51.06	11	17	17	6	0
234	3	37.14	11	26	26	5	0
234	4	45.78	11	23	23	5	0
234	5	79.64	13	16	16	5	0
234	6	47.58	11	15	15	5	0
234	7	41.75	11	25	25	5	0
234	8	25.19	10	26	26	4	0
234	9	8.85	9	27	27	4	0
234	10	5.42	9	27	27	3	0
234	11	3.63	9	30	30	3	0
234	12	3.32	9	25	25	3	0
234	13	2.03	9	31	31	3	0
234	14	9.74	9	33	33	3	0
234	15	25.41	10	23	23	4	0
234	16	15.93	10	23	23	4	0
234	17	4.73	9	17	17	4	0
234	18	15.79	10	16	16	4	0
234	19	357.06	9	9	9	5	0
234	20	23.41	10	16	16	5	0
234	21	13.26	10	19	19	6	0
234	22	18.16	10	18	18	6	0
234	23	29.52	10	16	16	6	0
234	24	26.82	10	21	21	6	0
235	1	23.48	10	18	18	6	0
235	2	30.92	10	21	21	6	0
235	3	32.75	10	18	18	6	0
235	4	35.44	11	19	19	5	0
235	5	40.37	11	15	15	5	0
235	6	49.56	11	15	15	5	0
235	7	37.9	11	17	17	5	0
235	8	39.49	11	11	11	4	0
235	9	8.66	9	8	8	4	0
235	10	304.17	7	11	11	4	0
235	11	191.55	2	17	17	4	0
235	12	189.57	1	18	18	4	0
235	13	179.57	1	16	16	3	0
235	14	162.85	16	17	17	2	0
235	15	175.34	1	20	20	3	0
235	16	180.81	1	19	19	4	0

235	17	197.16	2	21	21	4	0
235	18	193.3	2	14	14	4	0
235	19	206.26	2	11	11	5	0
235	20	177.6	1	10	10	5	0
235	21	189.88	1	14	14	5	0
235	22	194.3	2	17	17	5	0
235	23	192.1	2	12	12	5	0
235	24	209.58	2	8	8	5	0
236	1	216.26	3	12	12	5	0
236	2	228.83	3	9	9	5	0
236	3	295.51	6	8	8	5	0
236	4	241.05	4	8	8	5	0
236	5	225.2	3	10	10	5	0
236	6	219.48	3	12	12	5	0
236	7	207.31	2	15	15	5	0
236	8	196.77	2	19	19	4	0
236	9	179.47	1	26	26	4	0
236	10	176.42	1	27	27	4	0
236	11	181.37	1	39	39	4	0
236	12	179.43	1	44	44	4	0
236	13	183.5	1	42	42	4	0
236	14	183.02	1	34	34	5	2
236	15	186.95	1	28	28	5	1
236	16	182.48	1	33	33	4	7
236	17	186.26	1	35	35	4	2
236	18	189.93	1	30	30	4	0
236	19	188.86	1	24	24	4	1
236	20	169.04	1	19	19	5	0
236	21	160.58	16	10	10	5	0
236	22	193.46	2	9	9	5	0
236	23	119.82	14	6	6	5	0
236	24	114.59	14	5	5	5	0
237	1	189.07	1	10	10	5	0
237	2	187.54	1	10	10	5	0
237	3	118.56	14	7	7	5	0
237	4	161.33	16	7	7	5	0
237	5	202.83	2	7	7	5	0
237	6	234.11	3	6	6	5	0
237	7	36.85	11	7	7	5	0
237	8	56.72	12	14	14	5	0
237	9	23.59	10	26	26	4	0
237	10	257.54	4	16	16	4	0
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237	12	189.78	1	14	14	4	0
237	13	198.72	2	17	17	4	0
237	14	248.5	4	12	12	4	0
237	15	347.07	8	14	14	4	0
237	16	358.31	9	16	16	4	0
237	17	356.67	9	19	19	4	0

237	18	349.09	9	11	11	4	0
237	19	326.94	8	13	13	5	0
237	20	13.79	10	14	14	4	0
237	21	42.95	11	9	9	5	0
237	22	27.6	10	16	16	5	0
237	23	27	10	20	20	5	0
237	24	35.63	11	24	24	5	0
238	1	38.15	11	27	27	5	0
238	2	38.16	11	26	26	5	0
238	3	46.88	11	20	20	5	0
238	4	29.84	10	22	22	5	0
238	5	27.45	10	22	22	5	0
238	6	22.19	10	26	26	5	0
238	7	19.87	10	31	31	4	0
238	8	14.74	10	41	41	4	0
238	9	9.27	9	34	34	4	0
238	10	0.93	9	28	28	3	0
238	11	358.61	9	24	24	3	0
238	12	358.47	9	22	22	3	0
238	13	0.89	9	20	20	3	0
238	14	357.4	9	20	20	3	0
238	15	349.7	9	18	18	4	0
238	16	335.6	8	14	14	4	0
238	17	339.69	8	14	14	4	0
238	18	358.76	9	9	9	4	0
238	19	8.84	9	9	9	5	0
238	20	20.41	10	17	17	6	0
238	21	20.95	10	12	12	6	0
238	22	23.15	10	16	16	6	0
238	23	58.23	12	9	9	6	0
238	24	26.91	10	14	14	6	0
239	1	20.75	10	17	17	6	0
239	2	25.52	10	19	19	6	0
239	3	25.85	10	20	20	6	0
239	4	29.15	10	22	22	6	0
239	5	37.58	11	16	16	6	0
239	6	32.75	10	24	24	6	0
239	7	35.41	11	18	18	5	0
239	8	34.08	11	13	13	5	0
239	9	12.17	10	9	9	4	0
239	10	4.42	9	12	12	4	0
239	11	304.66	7	13	13	4	0
239	12	189.3	1	15	15	4	0
239	13	206.53	2	14	14	4	0
239	14	196.58	2	17	17	3	0
239	15	234.92	3	15	15	3	0
239	16	229.76	3	13	13	4	0
239	17	174.4	1	14	14	4	0
239	18	178.05	1	12	12	4	0

239	19	208.07	2	7	7	5	0
239	20	338.7	8	7	7	5	0
239	21	2.2	9	9	9	5	0
239	22	353.43	9	8	8	5	0
239	23	7.12	9	8	8	6	0
239	24	0.52	9	7	7	6	0
240	1	357.48	9	7	7	5	0
240	2	9.5	9	6	6	5	0
240	3	3	9	8	8	5	0
240	4	37.08	11	5	5	5	0
240	5	18.05	10	7	7	5	0
240	6	42.25	11	6	6	5	0
240	7	42.02	11	9	9	5	0
240	8	161.77	16	8	8	4	0
240	9	181.38	1	12	12	4	0
240	10	183.57	1	16	16	4	0
240	11	187.46	1	18	18	4	0
240	12	195.26	2	15	15	4	0
240	13	168.41	16	17	17	4	0
240	14	166.37	16	16	16	3	0
240	15	159.21	16	14	14	4	0
240	16	173	1	14	14	4	0
240	17	141.95	15	7	7	4	0
240	18	231.98	3	6	6	4	0
240	19	196.41	2	7	7	5	0
240	20	160.65	16	7	7	5	0
240	21	174.51	1	10	10	5	0
240	22	100.68	13	7	7	5	0
240	23	19.55	10	9	9	5	0
240	24	29.53	10	13	13	5	0
241	1	19.39	10	16	16	5	0
241	2	28.59	10	20	20	5	0
241	3	33.82	11	21	21	5	0
241	4	33.06	10	21	21	5	0
241	5	37.68	11	21	21	4	0
241	6	26.26	10	19	19	4	0
241	7	30.32	10	19	19	4	0
241	8	27.84	10	22	22	4	0
241	9	25.4	10	30	30	4	0
241	10	40.92	11	19	19	4	0
241	11	27.79	10	14	14	4	0
241	12	26.2	10	17	17	4	0
241	13	32.9	10	20	20	4	0
241	14	86.9	13	13	13	4	0
241	15	187.31	1	14	14	4	6
241	16	181.84	1	13	13	4	0
241	17	165.33	16	9	9	4	0
241	18	217.31	3	8	8	4	0
241	19	24.59	10	5	5	5	0

241	20	81.62	13	9	9	4	0
241	21	112.21	14	8	8	4	0
241	22	135.89	15	9	9	4	0
241	23	132.22	15	9	9	4	0
241	24	157.68	16	8	8	4	0
242	1	137.27	15	8	8	4	0
242	2	77.23	12	10	10	4	0
242	3	60.67	12	13	13	4	0
242	4	79.02	13	10	10	4	0
242	5	73.9	12	10	10	4	0
242	6	28.43	10	19	19	4	0
242	7	33.77	11	17	17	4	0
242	8	28.39	10	20	20	4	0
242	9	61.41	12	18	18	4	0
242	10	101.77	14	15	15	4	0
242	11	95	13	20	20	3	0
242	12	92.26	13	20	20	3	0
242	13	70.46	12	23	23	4	0
242	14	101.26	14	21	21	2	0
242	15	75.57	12	22	22	3	0
242	16	82.01	13	19	19	4	0
242	17	102.98	14	17	17	4	0
242	18	114.77	14	10	10	4	0
242	19	66.5	12	14	14	4	0
242	20	55.72	11	12	12	4	0
242	21	34.98	11	11	11	4	0
242	22	37.88	11	9	9	4	0
242	23	20.52	10	14	14	4	0
242	24	20.07	10	16	16	4	0
243	1	21.53	10	20	20	4	0
243	2	31.62	10	19	19	4	0
243	3	24.38	10	25	25	4	0
243	4	26.78	10	20	20	4	0
243	5	21.47	10	21	21	4	0
243	6	28.55	10	19	19	4	0
243	7	17.48	10	18	18	4	0
243	8	17.04	10	18	18	4	0
243	9	36.73	11	14	14	4	0
243	10	2.11	9	12	12	4	0
243	11	0.58	9	16	16	4	0
243	12	18.21	10	14	14	4	0
243	13	351.17	9	18	18	4	0
243	14	358.89	9	15	15	4	0
243	15	207.09	2	19	19	4	0
243	16	187.9	1	21	21	4	0
243	17	169.34	1	15	15	4	0
243	18	177.85	1	11	11	4	0
243	19	177.34	1	15	15	4	0
243	20	170.4	1	7	7	5	0

243	21	165.61	16	6	6	4	0
243	22	79.77	13	9	9	5	0
243	23	104.84	14	8	8	5	0
243	24	60.91	12	9	9	5	0
244	1	30.78	10	9	9	5	0
244	2	43.6	11	10	10	5	0
244	3	29.82	10	17	17	4	0
244	4	22.99	10	18	18	5	0
244	5	15.35	10	19	19	4	0
244	6	30.77	10	14	14	4	0
244	7	48.21	11	10	10	4	0
244	8	104.68	14	7	7	4	0
244	9	217.37	3	8	8	4	0
244	10	300.78	6	11	11	4	0
244	11	358.2	9	13	13	4	0
244	12	182.93	1	20	20	3	0
244	13	174.83	1	20	20	3	0
244	14	192.43	2	20	20	4	0
244	15	188.93	1	24	24	3	0
244	16	182.46	1	27	27	3	0
244	17	173.26	1	26	26	4	0
244	18	175.77	1	18	18	4	0
244	19	169.46	1	14	14	4	0
244	20	171.88	1	11	11	4	0
244	21	168.65	16	16	16	4	0
244	22	173.05	1	11	11	4	0
244	23	139.18	15	6	6	5	0
244	24	142.08	15	6	6	5	0
245	1	166.03	16	6	6	5	0
245	2	116.36	14	8	8	5	0
245	3	127.16	15	8	8	5	0
245	4	65.88	12	7	7	4	0
245	5	49.16	11	12	12	4	0
245	6	27.13	10	15	15	4	0
245	7	199.47	2	9	9	4	0
245	8	182.8	1	16	16	4	0
245	9	182.02	1	19	19	4	0
245	10	168.94	1	14	14	4	0
245	11	158.13	16	13	13	4	0
245	12	133.23	15	12	12	4	0
245	13	178.14	1	13	13	4	8
245	14	170.23	1	11	11	4	2
245	15	160.52	16	19	19	4	0
245	16	166.11	16	19	19	4	0
245	17	169.34	1	20	20	4	0
245	18	177.03	1	17	17	4	0
245	19	172.03	1	10	10	5	0
245	20	132.03	15	7	7	5	0
245	21	30.66	10	7	7	5	0

245	22	35.87	11	6	6	5	0
245	23	15.39	10	10	10	5	0
245	24	85.65	13	7	7	5	0
246	1	161.54	16	6	6	5	0
246	2	190.86	1	16	16	5	0
246	3	193.11	2	11	11	5	0
246	4	218.88	3	6	6	5	0
246	5	74.8	12	6	6	4	0
246	6	170.14	1	6	6	5	0
246	7	183.42	1	8	8	4	0
246	8	177.58	1	5	5	4	0
246	9	179.45	1	13	13	4	0
246	10	183.01	1	12	12	4	0
246	11	205.52	2	13	13	4	0
246	12	186.59	1	20	20	4	1
246	13	203.87	2	14	14	4	0
246	14	171.64	1	17	17	4	0
246	15	171.38	1	13	13	4	0
246	16	164.25	16	16	16	4	0
246	17	110.05	14	10	10	4	0
246	18	83.9	13	10	10	4	0
246	19	140.26	15	26	26	4	0
246	20	110.3	14	18	18	5	0
246	21	173.43	1	11	11	5	0
246	22	22.58	10	27	27	5	0
246	23	39.52	11	18	18	5	0
246	24	183.87	1	9	9	5	0
247	1	184.75	1	6	6	5	0
247	2	43.54	11	15	15	5	0
247	3	36.17	11	21	21	5	0
247	4	26.06	10	16	16	5	0
247	5	27.67	10	21	21	5	0
247	6	28.46	10	18	18	4	0
247	7	20.32	10	17	17	4	0
247	8	29.52	10	24	24	5	0
247	9	25.36	10	24	24	4	0
247	10	12.91	10	20	20	4	0
247	11	17.24	10	23	23	4	0
247	12	3.4	9	23	23	3	0
247	13	5.96	9	24	24	4	0
247	14	16.65	10	20	20	4	0
247	15	61.46	12	14	14	4	0
247	16	180.78	1	22	22	4	0
247	17	174.01	1	20	20	4	0
247	18	176.38	1	14	14	4	0
247	19	178.73	1	9	9	5	0
247	20	189.51	1	12	12	4	0
247	21	202.7	2	11	11	4	0
247	22	200.63	2	10	10	4	0

247	23	199.03	2	12	12	4	0
247	24	203.47	2	12	12	5	0
248	1	180.44	1	13	13	5	0
248	2	187.75	1	19	19	4	0
248	3	191.31	2	6	6	4	0
248	4	204.81	2	6	6	5	0
248	5	240.57	4	6	6	4	0
248	6	176	1	4	4	4	0
248	7	73.36	12	7	7	5	0
248	8	184	1	9	9	4	0
248	9	22.57	10	17	17	4	0
248	10	14.52	10	30	30	4	0
248	11	5.34	9	27	27	4	0
248	12	4.41	9	23	23	4	0
248	13	3.6	9	24	24	3	0
248	14	4.93	9	30	30	4	0
248	15	8.8	9	41	41	4	0
248	16	11.01	9	48	48	4	0
248	17	11.09	9	48	48	4	0
248	18	14.04	10	50	50	4	0
248	19	12.33	10	54	54	4	0
248	20	14.08	10	59	59	4	0
248	21	16.18	10	60	60	4	0
248	22	14.95	10	52	52	4	0
248	23	19.68	10	43	43	4	0
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249	11	10.87	9	33	33	2	0
249	12	6.96	9	31	31	2	0
249	13	2.43	9	30	30	2	0
249	14	355.7	9	30	30	2	0
249	15	358.68	9	31	31	2	0
249	16	1.93	9	30	30	3	0
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249	20	24.14	10	29	29	4	0
249	21	26.89	10	25	25	5	0
249	22	26.43	10	20	20	5	0
249	23	26.88	10	24	24	5	0

249	24	37.8	11	23	23	5	0
250	1	24.46	10	26	26	5	0
250	2	22.39	10	26	26	5	0
250	3	18.44	10	31	31	4	0
250	4	23.79	10	30	30	4	0
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250	10	30.89	10	14	14	4	0
250	11	38.81	11	19	19	4	0
250	12	31.92	10	21	21	3	0
250	13	5.39	9	22	22	3	0
250	14	51.74	11	19	19	3	0
250	15	240.3	4	16	16	3	0
250	16	250.68	4	14	14	4	0
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250	18	151.01	16	10	10	4	0
250	19	224.24	3	7	7	5	0
250	20	276.75	5	6	6	5	0
250	21	354.44	9	10	10	5	0
250	22	28.43	10	14	14	5	0
250	23	31.26	10	18	18	5	0
250	24	35.94	11	12	12	5	0
251	1	35.93	11	12	12	5	0
251	2	29.66	10	17	17	6	0
251	3	31.39	10	18	18	6	0
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251	5	25.52	10	12	12	5	0
251	6	26.72	10	9	9	5	0
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251	9	127.88	15	8	8	4	0
251	10	173.27	1	14	14	4	0
251	11	160.82	16	18	18	4	0
251	12	173	1	21	21	2	0
251	13	166	16	21	21	2	0
251	14	166.35	16	23	23	1	0
251	15	190.07	1	30	30	2	0
251	16	186.81	1	26	26	4	0
251	17	186.22	1	27	27	4	0
251	18	191.16	1	30	30	4	0
251	19	195.79	2	21	21	5	0
251	20	189.63	1	12	12	5	0
251	21	187.7	1	17	17	5	0
251	22	200.15	2	19	19	5	0
251	23	192.66	2	20	20	5	0
251	24	180.01	1	21	21	5	0

252	1	186.12	1	18	18	5	0
252	2	206.79	2	12	12	5	0
252	3	207.63	2	13	13	5	0
252	4	198.08	2	17	17	5	0
252	5	193.33	2	15	15	5	0
252	6	175.41	1	16	16	5	0
252	7	194.69	2	16	16	5	0
252	8	183.53	1	23	23	4	0
252	9	178.94	1	23	23	4	0
252	10	175.11	1	25	25	4	0
252	11	173.03	1	24	24	3	0
252	12	164.98	16	19	19	2	0
252	13	169.37	1	23	23	2	0
252	14	182.92	1	23	23	3	0
252	15	191.87	2	27	27	4	0
252	16	198.32	2	25	25	4	0
252	17	193.22	2	29	29	4	0
252	18	189.44	1	18	18	4	0
252	19	183.03	1	24	24	5	0
252	20	181.72	1	21	21	5	0
252	21	186.51	1	8	8	5	0
252	22	47.56	11	7	7	5	0
252	23	59.5	12	7	7	5	0
252	24	175.22	1	9	9	5	0
253	1	160.14	16	8	8	5	0
253	2	139.09	15	8	8	5	0
253	3	149.8	16	7	7	5	0
253	4	157.32	16	5	5	5	0
253	5	117.31	14	6	6	5	0
253	6	52.61	11	6	6	5	0
253	7	73.84	12	7	7	5	0
253	8	143.33	15	8	8	4	0
253	9	183.15	1	13	13	4	0
253	10	187.27	1	18	18	4	0
253	11	209.57	2	18	18	4	0
253	12	207.25	2	12	12	4	0
253	13	9.3	9	14	14	4	0
253	14	46.88	11	13	13	4	0
253	15	314.53	7	11	11	4	0
253	16	95.26	13	13	13	4	0
253	17	168.59	16	11	11	5	0
253	18	199.4	2	12	12	5	0
253	19	138.24	15	6	6	5	0
253	20	356.09	9	9	9	5	0
253	21	30.55	10	24	24	5	0
253	22	40.37	11	18	18	5	0
253	23	32.77	10	14	14	5	0
253	24	33.62	10	13	13	5	0
254	1	30.95	10	16	16	5	0

254	2	31.52	10	25	25	5	0
254	3	29.08	10	29	29	5	0
254	4	27.38	10	21	21	5	0
254	5	27.79	10	16	16	5	0
254	6	43.2	11	10	10	5	0
254	7	34.76	11	22	22	4	0
254	8	34.28	11	17	17	4	0
254	9	35.56	11	19	19	4	0
254	10	25.2	10	16	16	4	0
254	11	259.93	5	17	17	4	0
254	12	199.19	2	21	21	4	0
254	13	190.02	1	22	22	4	0
254	14	187.53	1	23	23	4	0
254	15	180.08	1	26	26	3	0
254	16	176.58	1	20	20	4	0
254	17	176.22	1	20	20	4	0
254	18	157.51	16	9	9	4	0
254	19	161.46	16	9	9	5	0
254	20	104.52	14	10	10	5	0
254	21	122.27	14	9	9	5	0
254	22	132.31	15	5	5	5	0
254	23	176.24	1	7	7	5	0
254	24	164.93	16	7	7	5	0
255	1	149.08	16	7	7	5	0
255	2	120.33	14	8	8	5	0
255	3	120.37	14	7	7	5	0
255	4	110.78	14	10	10	5	0
255	5	84.45	13	9	9	5	0
255	6	102.23	14	6	6	5	0
255	7	101.44	14	8	8	5	0
255	8	142.69	15	7	7	4	0
255	9	230.73	3	11	11	4	0
255	10	176.99	1	19	19	4	0
255	11	165.83	16	26	26	2	0
255	12	171.19	1	28	28	2	0
255	13	168.18	16	25	25	2	0
255	14	168.86	1	27	27	2	0
255	15	169.2	1	28	28	3	0
255	16	169.25	1	21	21	4	0
255	17	165.55	16	19	19	4	0
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255	21	170.15	1	25	25	4	0
255	22	171.07	1	24	24	4	0
255	23	170.73	1	20	20	4	0
255	24	173.9	1	19	19	4	0
256	1	182.36	1	20	20	4	0
256	2	190.66	1	22	22	4	0

256	3	204.27	2	16	16	4	0
256	4	189.17	1	16	16	4	0
256	5	187.63	1	20	20	4	0
256	6	199.52	2	19	19	4	0
256	7	193.19	2	25	25	4	0
256	8	186.88	1	27	27	4	0
256	9	179.09	1	26	26	4	0
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256	11	178.24	1	30	30	3	0
256	12	184.39	1	31	31	4	0
256	13	189.1	1	31	31	4	0
256	14	189.46	1	33	33	4	0
256	15	189.74	1	38	38	4	0
256	16	174.95	1	29	29	4	0
256	17	170.47	1	26	26	4	0
256	18	170.67	1	25	25	4	0
256	19	169.81	1	20	20	4	0
256	20	164.98	16	17	17	4	0
256	21	177.87	1	28	28	4	0
256	22	183.84	1	33	33	4	0
256	23	179.99	1	34	34	4	0
256	24	177.89	1	28	28	4	0
257	1	191.66	2	26	26	4	0
257	2	186.56	1	24	24	5	22
257	3	175.3	1	15	15	5	7
257	4	144.27	15	9	9	5	2
257	5	189	1	9	9	5	0
257	6	210.99	2	10	10	5	0
257	7	254.39	4	11	11	5	0
257	8	98.7	13	15	15	4	0
257	9	14.24	10	24	24	4	0
257	10	359.38	9	22	22	4	0
257	11	359.25	9	26	26	4	0
257	12	4.26	9	29	29	3	0
257	13	12.33	10	26	26	3	0
257	14	7.36	9	26	26	3	0
257	15	8.22	9	25	25	4	0
257	16	0.53	9	20	20	4	0
257	17	12.25	10	24	24	4	0
257	18	359.98	9	18	18	4	0
257	19	18	10	16	16	5	0
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257	21	28.76	10	16	16	5	0
257	22	23.61	10	22	22	5	0
257	23	26.22	10	27	27	6	0
257	24	28.56	10	23	23	5	0
258	1	26.3	10	23	23	5	0
258	2	21.02	10	27	27	5	0
258	3	21.31	10	25	25	5	0

258	4	25.46	10	25	25	5	0
258	5	28.12	10	29	29	5	0
258	6	36.43	11	22	22	5	0
258	7	37.95	11	23	23	5	0
258	8	39.43	11	22	22	5	0
258	9	41.82	11	19	19	4	0
258	10	331.19	8	14	14	4	0
258	11	214.83	3	20	20	4	0
258	12	179.58	1	25	25	3	0
258	13	157.17	16	20	20	1	0
258	14	169.63	1	29	29	2	0
258	15	170.21	1	30	30	3	0
258	16	169.32	1	23	23	4	0
258	17	167.8	16	20	20	4	0
258	18	150.8	16	13	13	4	0
258	19	148.46	16	14	14	5	0
258	20	166.36	16	22	22	4	0
258	21	158.4	16	14	14	4	0
258	22	140.08	15	14	14	4	0
258	23	91.31	13	11	11	5	0
258	24	155.28	16	17	17	4	0
259	1	189.84	1	24	24	4	32
259	2	171.02	1	18	18	4	20
259	3	187.69	1	25	25	4	8
259	4	202.37	2	17	17	4	6
259	5	217.79	3	10	10	4	0
259	6	169.24	1	10	10	4	0
259	7	207.26	2	11	11	4	0
259	8	348.1	8	18	18	4	0
259	9	134.38	15	13	13	4	0
259	10	238.97	4	16	16	4	0
259	11	274	5	22	22	4	0
259	12	260.38	5	25	25	3	0
259	13	252.27	4	24	24	3	0
259	14	304.1	7	22	22	2	0
259	15	258.7	4	23	23	3	0
259	16	278.68	5	19	19	3	0
259	17	248.86	4	19	19	4	0
259	18	273.57	5	17	17	4	0
259	19	329.58	8	17	17	4	0
259	20	298.84	6	19	19	4	0
259	21	302.17	6	20	20	4	0
259	22	243.48	4	22	22	4	0
259	23	257.88	4	22	22	4	0
259	24	276.38	5	25	25	4	0
260	1	319	7	24	24	4	0
260	2	324.66	7	22	22	4	0
260	3	356.11	9	24	24	4	0
260	4	3.96	9	23	23	4	0

260	5	3.57	9	19	19	4	0
260	6	9.15	9	17	17	4	0
260	7	9.03	9	15	15	4	0
260	8	336.75	8	16	16	4	0
260	9	340.05	8	21	21	4	0
260	10	305.98	7	23	23	3	0
260	11	295.39	6	21	21	2	0
260	12	325.7	7	21	21	3	0
260	13	286.42	6	19	19	3	0
260	14	262.71	5	20	20	4	0
260	15	299.06	6	20	20	4	0
260	16	343.87	8	17	17	4	0
260	17	335.35	8	19	19	4	0
260	18	234.72	3	12	12	4	0
260	19	228.25	3	12	12	5	0
260	20	183.01	1	11	11	5	0
260	21	233.56	3	11	11	5	0
260	22	231.27	3	13	13	5	0
260	23	243.14	4	12	12	5	0
260	24	217.02	3	13	13	5	0
261	1	221.41	3	15	15	5	0
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261	3	230.16	3	12	12	5	0
261	4	256.86	4	18	18	4	0
261	5	205.95	2	15	15	4	0
261	6	195.27	2	14	14	5	0
261	7	192.95	2	14	14	5	0
261	8	196.49	2	20	20	4	0
261	9	221.03	3	18	18	4	0
261	10	210.15	2	24	24	3	0
261	11	195.59	2	30	30	3	0
261	12	204.43	2	32	32	2	0
261	13	224.68	3	32	32	2	0
261	14	203.82	2	37	37	2	0
261	15	214.8	3	30	30	3	0
261	16	209.23	2	32	32	4	0
261	17	201.53	2	31	31	4	0
261	18	185.89	1	29	29	4	0
261	19	181.85	1	24	24	5	0
261	20	184.46	1	24	24	5	0
261	21	179.4	1	18	18	5	0
261	22	175.68	1	10	10	5	0
261	23	189.04	1	13	13	5	0
261	24	214.07	3	9	9	5	0
262	1	337.15	8	9	9	5	0
262	2	238.05	4	9	9	5	0
262	3	228.45	3	9	9	5	0
262	4	228.66	3	9	9	5	0
262	5	17.66	10	8	8	6	0

262	6	26.7	10	8	8	5	0
262	7	81.5	13	8	8	6	0
262	8	144.53	15	6	6	5	0
262	9	131.63	15	10	10	4	0
262	10	183.51	1	15	15	4	0
262	11	209.99	2	16	16	4	0
262	12	181.23	1	20	20	4	0
262	13	191.39	2	21	21	4	0
262	14	177.68	1	20	20	4	0
262	15	166.65	16	16	16	4	0
262	16	164.14	16	14	14	4	0
262	17	208.37	2	13	13	4	0
262	18	191.58	2	24	24	4	0
262	19	187.72	1	18	18	5	0
262	20	163.25	16	8	8	5	0
262	21	160.28	16	13	13	5	0
262	22	174.63	1	10	10	5	0
262	23	304.85	7	9	9	5	0
262	24	29.14	10	9	9	5	0
263	1	14.53	10	10	10	5	0
263	2	24.71	10	7	7	5	0
263	3	39.57	11	8	8	5	0
263	4	18.52	10	13	13	5	0
263	5	27.38	10	13	13	5	0
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263	11	250.07	4	10	10	4	0
263	12	285.48	6	11	11	4	0
263	13	337.28	8	11	11	4	0
263	14	44.6	11	15	15	4	0
263	15	17.66	10	21	21	4	0
263	16	22.23	10	26	26	4	33
263	17	19.63	10	42	42	4	104
263	18	356.12	9	21	21	4	47
263	19	19.87	10	36	36	4	2
263	20	16.18	10	36	36	4	0
263	21	15.8	10	28	28	4	0
263	22	20.49	10	29	29	4	2
263	23	10.89	9	26	26	4	0
263	24	15.36	10	25	25	4	0
264	1	9.58	9	21	21	4	0
264	2	7.08	9	24	24	4	0
264	3	2.64	9	18	18	4	0
264	4	247.66	4	13	13	4	0
264	5	276.48	5	17	17	4	0
264	6	253.32	4	14	14	4	0

264	7	342.83	8	16	16	4	0
264	8	82.06	13	13	13	4	0
264	9	140.62	15	11	11	4	0
264	10	220.11	3	13	13	4	0
264	11	215.06	3	15	15	3	0
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264	14	178.91	1	18	18	3	0
264	15	164.84	16	17	17	4	0
264	16	178.05	1	17	17	4	0
264	17	190.15	1	32	32	4	0
264	18	186.27	1	23	23	5	0
264	19	198.28	2	12	12	5	0
264	20	176.11	1	13	13	5	0
264	21	175.03	1	14	14	5	0
264	22	179.88	1	6	6	6	0
264	23	299.88	6	6	6	6	0
264	24	247.97	4	9	9	5	0
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265	10	252.26	4	22	22	4	0
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265	12	284.6	6	27	27	3	0
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265	16	249.78	4	23	23	4	0
265	17	256.7	4	23	23	4	0
265	18	261.5	5	20	20	4	0
265	19	291.53	6	12	12	5	0
265	20	346.47	8	17	17	4	0
265	21	317.03	7	15	15	4	0
265	22	243.23	4	16	16	4	0
265	23	245.6	4	16	16	4	0
265	24	256.99	4	16	16	4	0
266	1	294.82	6	14	14	4	0
266	2	346.69	8	16	16	4	0
266	3	272.45	5	13	13	4	0
266	4	238.82	4	19	19	4	0
266	5	243.69	4	19	19	4	0
266	6	190.5	1	17	17	4	0
266	7	206.55	2	19	19	4	0

266	8	207.95	2	17	17	4	0
266	9	355.63	9	20	20	4	0
266	10	347.47	8	19	19	2	0
266	11	4.89	9	23	23	3	0
266	12	33.96	11	18	18	4	0
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266	16	319.39	7	13	13	4	0
266	17	308.54	7	12	12	4	0
266	18	238.06	4	10	10	4	0
266	19	318.37	7	8	8	5	0
266	20	19.9	10	16	16	5	0
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266	23	31.99	10	15	15	6	0
266	24	68.73	12	11	11	5	0
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267	2	25.56	10	15	15	6	0
267	3	22.48	10	21	21	6	0
267	4	30.18	10	15	15	5	0
267	5	29.27	10	19	19	5	0
267	6	35.96	11	18	18	5	0
267	7	70.1	12	8	8	5	0
267	8	40.71	11	12	12	5	0
267	9	52.53	11	11	11	4	0
267	10	83.06	13	9	9	4	0
267	11	355.9	9	8	8	4	0
267	12	185.3	1	12	12	4	0
267	13	188.29	1	16	16	4	0
267	14	186.56	1	24	24	4	0
267	15	191.97	2	22	22	4	0
267	16	185.07	1	18	18	4	0
267	17	171.11	1	16	16	4	0
267	18	164.69	16	9	9	4	0
267	19	137.96	15	7	7	5	0
267	20	138.42	15	5	5	5	0
267	21	139.96	15	6	6	5	0
267	22	119.49	14	5	5	5	0
267	23	56.36	12	7	7	5	0
267	24	103.44	14	7	7	5	0
268	1	353.26	9	5	5	5	0
268	2	81.31	13	6	6	5	0
268	3	140.44	15	5	5	5	0
268	4	144.69	15	5	5	5	0
268	5	190.35	1	8	8	5	0
268	6	209.73	2	6	6	5	0
268	7	192.35	2	8	8	5	0
268	8	212.77	2	11	11	4	0

268	9	167.97	16	9	9	4	0
268	10	172.29	1	11	11	4	0
268	11	187.37	1	13	13	4	0
268	12	245.57	4	14	14	4	0
268	13	306.11	7	18	18	4	0
268	14	348.11	8	22	22	4	0
268	15	1.47	9	25	25	4	0
268	16	9.31	9	30	30	4	0
268	17	5.55	9	30	30	4	0
268	18	0.85	9	25	25	4	0
268	19	5.76	9	23	23	4	0
268	20	4.16	9	22	22	4	0
268	21	12.69	10	31	31	4	0
268	22	18.66	10	36	36	4	0
268	23	16.45	10	33	33	4	0
268	24	24.93	10	22	22	4	0
269	1	32.37	10	17	17	4	0
269	2	15.61	10	20	20	4	0
269	3	24.44	10	19	19	4	0
269	4	19.2	10	19	19	4	0
269	5	14.82	10	29	29	4	0
269	6	19.05	10	31	31	4	0
269	7	17.95	10	27	27	4	0
269	8	16.26	10	29	29	4	0
269	9	10.12	9	31	31	4	0
269	10	8.8	9	36	36	3	0
269	11	6.66	9	31	31	3	0
269	12	9.74	9	36	36	3	0
269	13	5.99	9	30	30	3	0
269	14	8.41	9	31	31	4	0
269	15	11.42	10	25	25	4	0
269	16	26.98	10	23	23	4	0
269	17	20.42	10	28	28	4	0
269	18	22.68	10	33	33	4	0
269	19	24.55	10	35	35	4	0
269	20	20.31	10	36	36	4	0
269	21	21.36	10	31	31	4	0
269	22	29.48	10	27	27	4	0
269	23	21.21	10	30	30	4	0
269	24	27.97	10	30	30	4	0
270	1	22.53	10	25	25	4	0
270	2	21.77	10	32	32	4	0
270	3	25.51	10	31	31	4	0
270	4	18.48	10	34	34	4	0
270	5	21.5	10	36	36	4	0
270	6	19.51	10	41	41	4	0
270	7	18.67	10	38	38	4	0
270	8	21.06	10	43	43	4	2
270	9	21.18	10	47	47	4	0

270	10	20.94	10	45	45	4	0
270	11	19.28	10	42	42	4	0
270	12	13.68	10	41	41	4	0
270	13	11.63	10	42	42	3	7
270	14	10.38	9	43	43	3	8
270	15	12.02	10	45	45	3	7
270	16	16.24	10	46	46	4	2
270	17	13.32	10	37	37	4	0
270	18	12.07	10	32	32	4	0
270	19	10.24	9	28	28	4	0
270	20	11.72	10	30	30	4	0
270	21	27.06	10	19	19	4	0
270	22	61.73	12	10	10	5	0
270	23	58.75	12	10	10	5	0
270	24	28.18	10	16	16	5	0
271	1	46.03	11	18	18	5	0
271	2	43.65	11	14	14	5	0
271	3	68.11	12	11	11	5	0
271	4	56.64	12	12	12	5	0
271	5	72.61	12	12	12	5	0
271	6	60.15	12	11	11	5	0
271	7	35.07	11	11	11	5	0
271	8	71.9	12	6	6	5	0
271	9	130.65	15	8	8	4	0
271	10	180.36	1	14	14	4	0
271	11	184.33	1	19	19	4	0
271	12	179.39	1	13	13	4	0
271	13	212.48	2	18	18	4	0
271	14	208.73	2	19	19	4	0
271	15	204.71	2	22	22	4	0
271	16	205.42	2	16	16	4	0
271	17	207.69	2	18	18	4	0
271	18	201.65	2	17	17	5	0
271	19	249.08	4	9	9	5	0
271	20	145.34	15	10	10	5	0
271	21	98.92	13	10	10	5	0
271	22	48.15	11	7	7	6	0
271	23	66.29	12	6	6	6	0
271	24	28.28	10	5	5	6	0
272	1	19.88	10	8	8	6	0
272	2	32.6	10	12	12	6	0
272	3	68.28	12	11	11	6	0
272	4	31.92	10	21	21	5	0
272	5	43.5	11	17	17	5	0
272	6	49.06	11	16	16	5	0
272	7	69.59	12	15	15	5	0
272	8	66.17	12	17	17	4	0
272	9	21.71	10	33	33	4	0
272	10	8.2	9	39	39	3	0

272	11	2.69	9	37	37	2	0
272	12	13.2	10	39	39	3	0
272	13	6.43	9	36	36	4	0
272	14	6.41	9	34	34	2	0
272	15	3.05	9	29	29	3	0
272	16	8.43	9	30	30	4	0
272	17	20.92	10	34	34	4	0
272	18	21.87	10	33	33	4	0
272	19	21.33	10	33	33	4	0
272	20	20.14	10	34	34	4	0
272	21	21.83	10	28	28	4	0
272	22	28.05	10	25	25	4	0
272	23	35.16	11	21	21	5	0
272	24	49.16	11	17	17	5	0
273	1	39.69	11	20	20	5	0
273	2	23	10	29	29	4	0
273	3	39.43	11	23	23	5	0
273	4	10.64	9	32	32	4	0
273	5	18.21	10	31	31	4	0
273	6	18.73	10	26	26	5	0
273	7	19.42	10	26	26	4	0
273	8	17.47	10	25	25	4	0
273	9	8.78	9	24	24	4	0
273	10	11.91	10	19	19	4	0
273	11	337.3	8	15	15	3	0
273	12	348.76	9	19	19	3	0
273	13	6.53	9	15	15	4	0
273	14	345.25	8	18	18	4	0
273	15	352.15	9	15	15	4	0
273	16	359.19	9	13	13	4	0
273	17	104.62	14	8	8	4	0
273	18	134.64	15	5	5	5	0
273	19	68.54	12	10	10	5	0
273	20	63.58	12	8	8	5	0
273	21	26.29	10	11	11	5	0
273	22	24.48	10	14	14	5	0
273	23	29.29	10	18	18	5	0
273	24	28.49	10	18	18	6	0
274	1	24.33	10	16	16	6	0
274	2	27.38	10	18	18	6	0
274	3	24.59	10	15	15	6	0
274	4	30.12	10	20	20	6	0
274	5	28.81	10	22	22	6	0
274	6	38.17	11	17	17	6	0
274	7	36.91	11	14	14	6	0
274	8	39.46	11	12	12	5	0
274	9	108.51	14	8	8	4	0
274	10	188.08	1	14	14	4	0
274	11	181.67	1	22	22	4	0

274	12	179.12	1	26	26	3	0
274	13	178.25	1	30	30	2	0
274	14	178.48	1	29	29	2	0
274	15	167.76	16	23	23	2	0
274	16	166.75	16	20	20	3	0
274	17	174.34	1	22	22	4	0
274	18	182.55	1	21	21	5	0
274	19	191.81	2	19	19	5	0
274	20	192.01	2	24	24	5	0
274	21	216.37	3	13	13	5	0
274	22	221.62	3	9	9	5	0
274	23	179.19	1	5	5	5	0
274	24	22.68	10	8	8	5	0
275	1	25.92	10	9	9	5	0
275	2	22.42	10	13	13	6	0
275	3	26.48	10	12	12	6	0
275	4	30.83	10	14	14	6	0
275	5	33.43	10	10	10	5	0
275	6	31.07	10	10	10	5	0
275	7	74.34	12	7	7	5	0
275	8	80.09	13	6	6	4	0
275	9	37.84	11	9	9	4	0
275	10	98.44	13	11	11	4	0
275	11	212.12	2	15	15	4	0
275	12	194.85	2	17	17	3	0
275	13	173.55	1	22	22	1	0
275	14	165.57	16	22	22	2	0
275	15	153.8	16	16	16	3	0
275	16	163.88	16	17	17	3	0
275	17	164.9	16	12	12	4	0
275	18	174.75	1	10	10	5	0
275	19	126.38	15	8	8	5	0
275	20	158.1	16	6	6	5	0
275	21	162.51	16	8	8	5	0
275	22	340.64	8	8	8	5	0
275	23	22.39	10	10	10	5	0
275	24	25.23	10	16	16	5	0
276	1	26.23	10	21	21	5	0
276	2	29.69	10	26	26	5	0
276	3	31.17	10	23	23	5	0
276	4	26.47	10	23	23	5	0
276	5	43.38	11	18	18	5	0
276	6	56.33	12	16	16	5	0
276	7	57.06	12	12	12	5	0
276	8	50.46	11	15	15	4	0
276	9	35.46	11	11	11	4	0
276	10	20.33	10	15	15	4	0
276	11	41.28	11	21	21	4	0
276	12	1.84	9	13	13	1	0

276	13	45.44	11	14	14	2	0
276	14	17.78	10	14	14	4	0
276	15	219.15	3	13	13	4	0
276	16	219.38	3	12	12	4	0
276	17	224.26	3	11	11	4	0
276	18	181.94	1	7	7	5	0
276	19	28.78	10	11	11	5	0
276	20	27.82	10	14	14	6	0
276	21	21.1	10	16	16	6	0
276	22	17.87	10	13	13	6	0
276	23	26.2	10	14	14	6	0
276	24	22.21	10	14	14	6	0
277	1	35.29	11	11	11	6	0
277	2	45.29	11	9	9	6	0
277	3	32.84	10	9	9	5	0
277	4	24.58	10	9	9	5	0
277	5	42.71	11	6	6	5	0
277	6	79.47	13	8	8	5	0
277	7	28.59	10	11	11	5	0
277	8	157.34	16	9	9	5	0
277	9	127.45	15	10	10	5	0
277	10	180.33	1	14	14	5	0
277	11	201.26	2	9	9	5	0
277	12	155.75	16	10	10	5	0
277	13	288	6	20	20	4	0
277	14	307.72	7	23	23	4	0
277	15	304.06	7	17	17	4	0
277	16	247.27	4	15	15	4	0
277	17	248.57	4	13	13	4	0
277	18	318.14	7	13	13	5	0
277	19	359.25	9	24	24	4	0
277	20	359.01	9	21	21	4	0
277	21	1.99	9	27	27	5	0
277	22	6.36	9	20	20	5	0
277	23	166.75	16	8	8	5	0
277	24	57.62	12	10	10	6	0
278	1	5.28	9	7	7	6	0
278	2	17.39	10	17	17	6	0
278	3	352.03	9	12	12	6	0
278	4	35.61	11	19	19	6	0
278	5	24.23	10	17	17	6	0
278	6	27.37	10	14	14	6	0
278	7	142.74	15	8	8	5	0
278	8	192.04	2	8	8	5	0
278	9	39.01	11	11	11	4	0
278	10	142.19	15	12	12	4	0
278	11	181.8	1	12	12	4	0
278	12	164.58	16	15	15	4	0
278	13	66.2	12	16	16	4	0

278	14	142.77	15	14	14	4	0
278	15	171.43	1	26	26	3	0
278	16	168.14	16	21	21	4	0
278	17	169.71	1	15	15	4	0
278	18	39.47	11	10	10	5	0
278	19	9.86	9	30	30	4	0
278	20	10.46	9	32	32	4	0
278	21	31.63	10	22	22	4	0
278	22	30.53	10	23	23	4	0
278	23	5.25	9	28	28	4	0
278	24	4.07	9	38	38	4	0
279	1	4.55	9	34	34	4	0
279	2	8.47	9	32	32	4	0
279	3	13.39	10	26	26	4	0
279	4	18.47	10	25	25	4	0
279	5	23.83	10	29	29	4	0
279	6	23.65	10	31	31	4	0
279	7	34.8	11	22	22	4	0
279	8	19.95	10	23	23	4	0
279	9	29.83	10	20	20	4	0
279	10	28.68	10	15	15	4	2
279	11	17.88	10	21	21	4	3
279	12	27.73	10	28	28	4	0
279	13	35.54	11	18	18	4	0
279	14	55.2	11	15	15	4	0
279	15	35.79	11	22	22	4	0
279	16	40.96	11	21	21	4	0
279	17	40.74	11	17	17	4	0
279	18	55.55	11	12	12	4	0
279	19	158.05	16	7	7	4	0
279	20	40.97	11	7	7	4	1
279	21	36.89	11	8	8	4	0
279	22	9.09	9	13	13	5	0
279	23	27.79	10	21	21	5	0
279	24	29.94	10	23	23	4	0
280	1	25.26	10	15	15	4	0
280	2	17	10	10	10	4	0
280	3	25.12	10	5	5	4	0
280	4	52.72	11	6	6	5	0
280	5	92.91	13	7	7	5	0
280	6	63.51	12	8	8	5	0
280	7	140.7	15	7	7	5	0
280	8	112.13	14	7	7	5	0
280	9	178.63	1	10	10	5	0
280	10	184.94	1	13	13	4	0
280	11	179.63	1	12	12	4	0
280	12	168.3	16	14	14	4	0
280	13	184.42	1	9	9	4	0
280	14	184.08	1	10	10	4	0

280	15	287.25	6	8	8	4	0
280	16	320.02	7	12	12	4	0
280	17	261.83	5	21	21	4	0
280	18	333.26	8	32	32	4	0
280	19	2.22	9	37	37	4	0
280	20	0.31	9	30	30	4	0
280	21	358.43	9	26	26	4	0
280	22	356.28	9	25	25	4	0
280	23	2.35	9	25	25	4	0
280	24	80.48	13	18	18	4	0
281	1	350.11	9	21	21	4	0
281	2	76.2	12	20	20	4	0
281	3	356.19	9	24	24	4	0
281	4	358.29	9	26	26	4	0
281	5	347.72	8	13	13	4	0
281	6	320.48	7	11	11	4	0
281	7	285.29	6	15	15	4	0
281	8	5.75	9	12	12	4	0
281	9	347.29	8	18	18	4	0
281	10	313.89	7	16	16	2	0
281	11	334.71	8	18	18	3	0
281	12	333.79	8	17	17	4	0
281	13	256.96	4	15	15	4	0
281	14	288.36	6	18	18	3	0
281	15	320.66	7	18	18	3	0
281	16	324.92	7	17	17	4	0
281	17	348.64	8	16	16	4	0
281	18	290.72	6	18	18	4	0
281	19	317.83	7	21	21	4	0
281	20	280.69	5	16	16	4	0
281	21	275.49	5	17	17	4	0
281	22	286.66	6	16	16	4	0
281	23	301.21	6	16	16	4	0
281	24	253.24	4	19	19	4	0
282	1	262.79	5	17	17	4	0
282	2	330.55	8	17	17	4	0
282	3	287.21	6	14	14	4	0
282	4	194.94	2	11	11	5	0
282	5	183.66	1	8	8	5	0
282	6	188.1	1	13	13	4	0
282	7	183.85	1	14	14	4	0
282	8	209.3	2	15	15	4	0
282	9	253.34	4	19	19	3	0
282	10	328.83	8	20	20	1	0
282	11	335.55	8	25	25	1	0
282	12	276.75	5	26	26	1	0
282	13	317.27	7	26	26	1	0
282	14	262.33	5	24	24	1	0
282	15	292.07	6	23	23	2	0

282	16	288.09	6	23	23	3	0
282	17	294.67	6	18	18	4	0
282	18	347.98	8	15	15	4	0
282	19	5.2	9	15	15	4	0
282	20	4.06	9	16	16	4	0
282	21	13.37	10	15	15	4	0
282	22	24.67	10	21	21	5	0
282	23	33.3	10	24	24	4	0
282	24	37.57	11	25	25	4	0
283	1	29.03	10	26	26	4	0
283	2	33.98	11	18	18	5	0
283	3	27.73	10	23	23	4	0
283	4	17.85	10	23	23	4	0
283	5	27.08	10	17	17	5	0
283	6	11.94	10	26	26	4	0
283	7	8.65	9	35	35	4	0
283	8	6.9	9	31	31	4	0
283	9	5.4	9	38	38	4	0
283	10	8.18	9	34	34	3	0
283	11	2.28	9	35	35	3	0
283	12	4.43	9	36	36	2	0
283	13	358.16	9	37	37	3	0
283	14	350.85	9	26	26	4	0
283	15	6.16	9	33	33	4	0
283	16	6.18	9	30	30	4	0
283	17	0.53	9	28	28	4	0
283	18	358.91	9	22	22	4	0
283	19	8.67	9	25	25	4	0
283	20	355.53	9	19	19	4	0
283	21	358.7	9	19	19	4	0
283	22	3.04	9	17	17	4	0
283	23	331.2	8	18	18	4	0
283	24	354.94	9	18	18	4	0
284	1	164.92	16	15	15	4	0
284	2	133.37	15	10	10	5	0
284	3	138.18	15	11	11	5	0
284	4	130.08	15	10	10	5	0
284	5	156.83	16	12	12	5	0
284	6	127.24	15	14	14	5	0
284	7	197.65	2	21	21	4	0
284	8	286.5	6	17	17	4	0
284	9	274.35	5	20	20	3	0
284	10	323.14	7	18	18	3	0
284	11	248.7	4	24	24	2	0
284	12	266.77	5	26	26	3	0
284	13	257.25	4	25	25	4	0
284	14	259.49	5	27	27	4	0
284	15	265.69	5	22	22	4	0
284	16	271.24	5	24	24	4	0

284	17	257.78	4	19	19	4	0
284	18	252.3	4	16	16	4	0
284	19	229.73	3	10	10	5	0
284	20	194.28	2	12	12	5	0
284	21	181.89	1	15	15	5	0
284	22	201.42	2	15	15	5	0
284	23	193.95	2	12	12	5	0
284	24	155	16	12	12	5	0
285	1	107.8	14	9	9	5	0
285	2	179.39	1	5	5	5	0
285	3	203.56	2	8	8	5	0
285	4	181.69	1	14	14	5	0
285	5	171.64	1	16	16	5	0
285	6	171.1	1	12	12	5	0
285	7	170.55	1	8	8	5	0
285	8	191.5	2	13	13	5	0
285	9	183.39	1	19	19	5	0
285	10	278.87	5	21	21	4	0
285	11	275.64	5	28	28	3	0
285	12	305.23	7	23	23	3	0
285	13	310.74	7	26	26	3	0
285	14	288.81	6	23	23	3	0
285	15	269.03	5	22	22	4	0
285	16	264.15	5	16	16	4	0
285	17	231.74	3	14	14	4	0
285	18	216.39	3	16	16	5	0
285	19	259.94	5	18	18	5	0
285	20	355.08	9	26	26	4	0
285	21	357.02	9	27	27	4	0
285	22	3.23	9	26	26	4	0
285	23	351.08	9	24	24	4	0
285	24	1.08	9	22	22	4	0
286	1	11.96	10	20	20	5	0
286	2	30.92	10	11	11	5	0
286	3	23.53	10	10	10	6	0
286	4	23.29	10	11	11	6	0
286	5	33.13	10	11	11	6	0
286	6	18.85	10	15	15	6	0
286	7	32.97	10	19	19	6	0
286	8	26.26	10	22	22	5	0
286	9	25.96	10	10	10	4	0
286	10	215.6	3	10	10	4	0
286	11	307.78	7	11	11	4	0
286	12	182.55	1	22	22	4	0
286	13	181.87	1	17	17	4	0
286	14	202	2	19	19	4	0
286	15	204.22	2	17	17	4	0
286	16	180.46	1	14	14	4	0
286	17	165.45	16	11	11	5	0

286	18	224.88	3	11	11	5	0
286	19	347.64	8	6	6	6	0
286	20	351.84	9	8	8	7	0
286	21	18.13	10	7	7	7	0
286	22	20.6	10	8	8	7	0
286	23	14.68	10	12	12	7	0
286	24	8.49	9	8	8	7	0
287	1	327.07	8	7	7	7	0
287	2	8.77	9	8	8	7	0
287	3	25.34	10	11	11	7	0
287	4	15.44	10	11	11	6	0
287	5	17.88	10	10	10	6	0
287	6	27.85	10	11	11	7	0
287	7	68.54	12	9	9	7	0
287	8	155.45	16	6	6	6	0
287	9	190.61	1	10	10	5	0
287	10	198.21	2	17	17	4	0
287	11	187.33	1	18	18	4	0
287	12	183.98	1	20	20	4	0
287	13	178.26	1	24	24	4	0
287	14	169.41	1	14	14	4	0
287	15	168.45	16	14	14	4	0
287	16	176.51	1	13	13	4	0
287	17	188.97	1	9	9	5	0
287	18	214.27	3	11	11	6	0
287	19	171.01	1	8	8	6	0
287	20	29.91	10	8	8	6	0
287	21	107.87	14	7	7	7	0
287	22	88.73	13	9	9	6	0
287	23	333.12	8	8	8	6	0
287	24	311.05	7	8	8	6	0
288	1	21.48	10	8	8	6	0
288	2	0.86	9	9	9	6	0
288	3	22.27	10	10	10	7	0
288	4	129.43	15	9	9	7	0
288	5	321.57	7	7	7	6	0
288	6	274.12	5	6	6	6	0
288	7	17.38	10	7	7	6	0
288	8	187.17	1	9	9	6	0
288	9	177.35	1	15	15	6	0
288	10	180.13	1	15	15	5	0
288	11	186.17	1	17	17	4	0
288	12	181.76	1	17	17	4	0
288	13	186.01	1	17	17	4	0
288	14	184.78	1	19	19	4	0
288	15	175.27	1	17	17	4	0
288	16	182.93	1	16	16	5	0
288	17	175.12	1	13	13	5	0
288	18	207.01	2	12	12	5	0

288	19	222.58	3	9	9	6	0
288	20	133.18	15	8	8	6	0
288	21	145.08	15	9	9	6	0
288	22	297.81	6	6	6	6	0
288	23	329.56	8	6	6	6	0
288	24	8.99	9	8	8	7	0
289	1	25.6	10	7	7	7	0
289	2	25.08	10	9	9	7	0
289	3	224.45	3	8	8	7	0
289	4	275.98	5	8	8	7	0
289	5	28	10	15	15	7	0
289	6	40.78	11	12	12	6	0
289	7	178.15	1	9	9	6	0
289	8	295.02	6	8	8	6	0
289	9	235.1	3	7	7	5	0
289	10	197.64	2	12	12	4	0
289	11	358.24	9	15	15	4	0
289	12	294.16	6	11	11	4	0
289	13	2.36	9	15	15	4	0
289	14	13.63	10	17	17	4	0
289	15	27.12	10	15	15	4	0
289	16	338.02	8	10	10	4	0
289	17	185.94	1	8	8	5	0
289	18	16.49	10	11	11	5	0
289	19	28.81	10	13	13	6	0
289	20	23.48	10	13	13	6	0
289	21	30.51	10	25	25	6	0
289	22	26.53	10	27	27	5	0
289	23	28.59	10	20	20	5	0
289	24	32.28	10	23	23	5	0
290	1	41.76	11	19	19	4	0
290	2	73.93	12	18	18	4	0
290	3	43.69	11	15	15	4	0
290	4	62.15	12	15	15	4	0
290	5	46.85	11	16	16	4	0
290	6	64.35	12	13	13	4	0
290	7	84.3	13	12	12	4	0
290	8	76.63	12	10	10	4	0
290	9	90.63	13	10	10	4	1
290	10	86.01	13	9	9	4	0
290	11	109.9	14	9	9	4	0
290	12	95.14	13	9	9	4	0
290	13	74.7	12	10	10	4	0
290	14	48.93	11	10	10	4	0
290	15	21.68	10	14	14	4	0
290	16	10.74	9	18	18	4	0
290	17	23.5	10	25	25	4	0
290	18	25.92	10	30	30	4	0
290	19	31	10	27	27	4	0

290	20	36.28	11	23	23	4	0
290	21	29.45	10	24	24	4	0
290	22	31.26	10	25	25	4	0
290	23	27.76	10	25	25	4	0
290	24	30.99	10	22	22	4	0
291	1	32.37	10	21	21	4	0
291	2	29.92	10	22	22	4	0
291	3	35.24	11	22	22	4	0
291	4	36.17	11	17	17	4	0
291	5	27.92	10	16	16	4	0
291	6	30.38	10	17	17	4	0
291	7	30.58	10	16	16	4	0
291	8	21.06	10	21	21	4	0
291	9	25.78	10	21	21	4	0
291	10	27.42	10	18	18	4	0
291	11	24.51	10	17	17	4	0
291	12	12.85	10	12	12	4	0
291	13	221.03	3	21	21	4	0
291	14	189.11	1	23	23	4	0
291	15	181.98	1	23	23	4	0
291	16	179.85	1	12	12	4	1
291	17	138.85	15	7	7	5	0
291	18	77.7	12	9	9	5	0
291	19	172.42	1	7	7	5	0
291	20	191.17	1	5	5	4	0
291	21	39.95	11	9	9	4	0
291	22	43.49	11	7	7	4	0
291	23	77.5	12	5	5	4	0
291	24	201.71	2	7	7	4	0
292	1	41.13	11	15	15	4	0
292	2	58.6	12	17	17	4	0
292	3	39.52	11	16	16	4	0
292	4	43.28	11	12	12	4	0
292	5	44.07	11	11	11	4	0
292	6	97.41	13	9	9	4	0
292	7	47.75	11	12	12	4	0
292	8	9.94	9	18	18	4	0
292	9	27.68	10	15	15	4	1
292	10	303.04	6	8	8	4	0
292	11	31.91	10	12	12	4	0
292	12	20.99	10	18	18	4	6
292	13	17.72	10	16	16	4	6
292	14	9.11	9	15	15	4	7
292	15	24.85	10	12	12	4	1
292	16	33.07	10	23	23	4	0
292	17	13.76	10	24	24	4	0
292	18	19.98	10	18	18	4	0
292	19	12.81	10	27	27	4	0
292	20	10.4	9	26	26	4	0

292	21	11.65	10	29	29	4	0
292	22	12.01	10	23	23	4	0
292	23	3.48	9	21	21	4	0
292	24	2.61	9	20	20	4	0
293	1	5.32	9	24	24	4	0
293	2	2.65	9	20	20	4	0
293	3	12.24	10	14	14	5	0
293	4	6.39	9	16	16	5	0
293	5	350.26	9	19	19	5	0
293	6	316.45	7	18	18	5	0
293	7	312.11	7	21	21	4	0
293	8	293.22	6	20	20	4	0
293	9	273.16	5	23	23	4	0
293	10	291.16	6	20	20	4	0
293	11	305.19	7	19	19	4	0
293	12	305.78	7	24	24	4	0
293	13	313.93	7	26	26	4	0
293	14	339.27	8	30	30	4	0
293	15	342.35	8	27	27	4	0
293	16	352.33	9	22	22	4	0
293	17	309.95	7	21	21	4	0
293	18	297.04	6	16	16	4	0
293	19	349.05	9	16	16	4	0
293	20	1.22	9	19	19	4	0
293	21	8.22	9	24	24	4	0
293	22	2.59	9	13	13	5	0
293	23	30.65	10	12	12	5	0
293	24	40.79	11	10	10	6	0
294	1	40.95	11	10	10	6	0
294	2	23.35	10	10	10	6	0
294	3	45.86	11	11	11	6	0
294	4	146.35	16	7	7	6	0
294	5	28.22	10	7	7	5	0
294	6	23.46	10	12	12	6	0
294	7	17.39	10	11	11	6	0
294	8	20.58	10	9	9	5	0
294	9	359.79	9	8	8	5	0
294	10	298.9033	6	11	11	5	0
294	11	238.0167	4	13	13	4	0
294	12	177.13	1	16	16	4	0
294	13	172.85	1	22	22	4	0
294	14	173.55	1	16	16	4	0
294	15	180.43	1	22	22	4	0
294	16	164.32	16	17	17	4	0
294	17	158.54	16	13	13	5	0
294	18	187.67	1	9	9	5	0
294	19	136.9	15	6	6	5	0
294	20	187.54	1	11	11	5	0
294	21	201.33	2	8	8	5	0

294	22	252.27	4	6	6	5	0
294	23	15.78	10	6	6	6	0
294	24	18.41	10	7	7	5	0
295	1	13.29	10	8	8	5	0
295	2	2.29	9	8	8	5	0
295	3	16.55	10	7	7	5	0
295	4	10.14	9	8	8	5	0
295	5	14.66	10	8	8	5	0
295	6	345.55	8	6	6	5	0
295	7	37.7	11	8	8	5	0
295	8	84.09	13	6	6	5	0
295	9	161.77	16	10	10	4	0
295	10	178.92	1	17	17	4	0
295	11	195.82	2	22	22	4	0
295	12	215.37	3	16	16	4	0
295	13	192.92	2	21	21	4	0
295	14	183.49	1	21	21	4	0
295	15	166.52	16	15	15	4	0
295	16	167.69	16	14	14	4	0
295	17	259.25	5	9	9	5	0
295	18	235.39	3	7	7	6	0
295	19	87.58	13	7	7	6	0
295	20	351.91	9	7	7	6	0
295	21	34.3	11	17	17	6	0
295	22	37.54	11	11	11	6	0
295	23	20.98	10	30	30	5	0
295	24	9.26	9	40	40	5	0
296	1	14.31	10	49	49	4	0
296	2	11.7	10	43	43	4	0
296	3	14.41	10	45	45	4	0
296	4	19.39	10	44	44	4	0
296	5	19.95	10	39	39	4	0
296	6	14.26	10	48	48	4	0
296	7	21.42	10	50	50	4	0
296	8	13.89	10	44	44	4	0
296	9	11.43	10	40	40	4	0
296	10	3	9	32	32	4	0
296	11	354.41	9	33	33	3	0
296	12	357.04	9	32	32	3	0
296	13	352.82	9	30	30	3	0
296	14	350.16	9	31	31	3	0
296	15	0.11	9	32	32	4	0
296	16	2.56	9	31	31	4	0
296	17	1.57	9	30	30	4	0
296	18	17.15	10	38	38	4	0
296	19	23.3	10	33	33	4	0
296	20	27.75	10	24	24	5	0
296	21	13.75	10	24	24	5	0
296	22	33.45	10	21	21	5	0

296	23	38.08	11	20	20	5	0
296	24	31.83	10	23	23	5	0
297	1	33.37	10	26	26	5	0
297	2	33.96	11	21	21	6	0
297	3	31.46	10	28	28	5	0
297	4	31.69	10	25	25	5	0
297	5	33.5	10	24	24	5	0
297	6	35.41	11	24	24	5	0
297	7	43.19	11	17	17	5	0
297	8	32.51	10	18	18	5	0
297	9	34.02	11	19	19	4	0
297	10	14.53	10	15	15	4	0
297	11	269.02	5	16	16	4	0
297	12	210.9	2	22	22	4	0
297	13	175.52	1	21	21	3	0
297	14	176.08	1	25	25	3	0
297	15	162.75	16	20	20	3	0
297	16	153.03	16	16	16	3	0
297	17	147.99	16	12	12	4	0
297	18	156.24	16	9	9	5	0
297	19	160.68	16	8	8	5	0
297	20	181.49	1	11	11	5	0
297	21	190.19	1	11	11	5	0
297	22	179.95	1	7	7	5	0
297	23	225.62	3	8	8	5	0
297	24	286.13	6	8	8	5	0
298	1	354.58	9	6	6	5	0
298	2	307.63	7	8	8	5	0
298	3	11.49	10	8	8	5	0
298	4	353.85	9	10	10	5	0
298	5	24.77	10	9	9	5	0
298	6	201.96	2	7	7	5	0
298	7	272.7	5	8	8	5	0
298	8	212.82	2	7	7	5	0
298	9	203.39	2	16	16	4	0
298	10	168.63	16	13	13	4	0
298	11	170.45	1	15	15	4	0
298	12	213.49	2	18	18	4	0
298	13	156.05	16	33	33	4	0
298	14	194.31	2	23	23	4	0
298	15	173.21	1	21	21	4	0
298	16	171.45	1	16	16	4	0
298	17	158.96	16	10	10	5	0
298	18	139	15	7	7	5	0
298	19	17.9	10	6	6	6	0
298	20	355.54	9	7	7	5	0
298	21	22.5	10	12	12	5	0
298	22	17.64	10	12	12	6	0
298	23	28.16	10	9	9	6	0

298	24	25.76	10	11	11	6	0
299	1	15.86	10	15	15	6	0
299	2	27.8	10	26	26	7	0
299	3	37.59	11	26	26	6	0
299	4	39.08	11	20	20	6	0
299	5	38.78	11	14	14	6	0
299	6	25.35	10	22	22	6	0
299	7	54.41	11	18	18	6	0
299	8	41.14	11	15	15	6	0
299	9	42.65	11	13	13	5	0
299	10	98.28	13	10	10	4	0
299	11	254.46	4	9	9	5	0
299	12	240.44	4	9	9	4	0
299	13	199.4	2	16	16	4	0
299	14	192.17	2	22	22	4	0
299	15	188.56	1	24	24	4	0
299	16	173.76	1	19	19	4	0
299	17	168.36	16	13	13	5	0
299	18	184.01	1	11	11	5	0
299	19	173.05	1	18	18	5	0
299	20	167.47	16	16	16	5	0
299	21	202.48	2	7	7	5	0
299	22	20.28	10	6	6	5	0
299	23	10.81	9	9	9	5	0
299	24	11.27	10	9	9	6	0
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300	5	23.08	10	9	9	6	0
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300	10	186.75	1	15	15	4	0
300	11	184.97	1	18	18	4	0
300	12	201.02	2	21	21	4	0
300	13	221.01	3	21	21	4	0
300	14	182.03	1	21	21	4	0
300	15	161.53	16	19	19	4	0
300	16	156.25	16	14	14	4	0
300	17	165.54	16	10	10	5	0
300	18	185.75	1	16	16	5	0
300	19	181.46	1	11	11	5	0
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300	21	7.57	9	7	7	5	0
300	22	6.84	9	9	9	6	0
300	23	9.81	9	9	9	6	0
300	24	11.56	10	6	6	6	0

301	1	25.55	10	11	11	6	0
301	2	24.49	10	12	12	6	0
301	3	31.72	10	15	15	6	0
301	4	26.36	10	12	12	6	0
301	5	23	10	14	14	6	0
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301	10	173.12	1	6	6	5	0
301	11	106.78	14	8	8	5	0
301	12	219.88	3	9	9	4	0
301	13	222.29	3	10	10	4	0
301	14	237.32	4	15	15	4	0
301	15	222.13	3	11	11	4	0
301	16	205.55	2	10	10	4	0
301	17	186.32	1	5	5	5	0
301	18	318.75	7	7	7	5	0
301	19	35.44	11	17	17	6	0
301	20	24.73	10	13	13	6	0
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301	22	28.9	10	13	13	6	0
301	23	25.94	10	15	15	6	0
301	24	88.41	13	7	7	5	0
302	1	25.46	10	11	11	6	0
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302	3	48.41	11	21	21	6	0
302	4	60.4	12	13	13	6	0
302	5	19.36	10	15	15	5	0
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302	7	7.97	9	39	39	5	0
302	8	10.52	9	43	43	4	0
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302	11	2.89	9	52	52	3	0
302	12	2.16	9	51	51	3	0
302	13	5.4	9	54	54	3	0
302	14	6.52	9	62	62	4	0
302	15	357.52	9	59	59	4	0
302	16	353.84	9	47	47	4	0
302	17	0.58	9	49	49	4	0
302	18	346.43	8	38	38	4	0
302	19	332.96	8	38	38	4	0
302	20	341.54	8	33	33	4	0
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302	22	342.99	8	29	29	4	0
302	23	339.43	8	25	25	4	0
302	24	325.2	7	22	22	4	0
303	1	332.34	8	24	24	4	0

303	2	346.65	8	21	21	4	0
303	3	330.69	8	21	21	4	0
303	4	322.17	7	22	22	4	0
303	5	332.05	8	20	20	4	0
303	6	337.54	8	22	22	4	0
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303	11	334.15	8	27	27	2	0
303	12	337.44	8	26	26	2	0
303	13	338.59	8	31	31	4	0
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303	15	11.68	10	40	40	4	0
303	16	345.7	8	33	33	4	0
303	17	341.62	8	24	24	4	0
303	18	351.37	9	33	33	4	0
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303	20	348.88	9	44	44	4	0
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303	22	350.1	9	37	37	4	0
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303	24	343.76	8	25	25	4	0
304	1	298.9	6	15	15	4	0
304	2	281.13	5	16	16	5	0
304	3	321.12	7	16	16	4	0
304	4	346.17	8	24	24	4	0
304	5	312.76	7	20	20	4	0
304	6	309.49	7	13	13	4	0
304	7	335.01	8	21	21	4	0
304	8	350.03	9	39	39	4	0
304	9	1.17	9	60	60	4	0
304	10	358.43	9	56	56	4	0
304	11	1.96	9	58	58	3	0
304	12	1.97	9	61	61	3	0
304	13	359.66	9	52	52	3	0
304	14	2.02	9	41	41	4	0
304	15	8.26	9	38	38	4	0
304	16	9.72	9	42	42	4	0
304	17	9.44	9	45	45	4	0
304	18	6.36	9	38	38	4	0
304	19	4.8	9	44	44	4	0
304	20	359.04	9	45	45	4	0
304	21	353.35	9	47	47	4	0
304	22	344.2	8	33	33	4	0
304	23	349.74	9	32	32	4	0
304	24	348.34	8	23	23	4	0
305	1	352.46	9	41	41	4	0
305	2	350.36	9	40	40	4	0

305	3	350.4	9	50	50	4	0
305	4	357.06	9	59	59	4	0
305	5	351.8	9	51	51	4	0
305	6	352.08	9	52	52	4	0
305	7	1.48	9	53	53	4	0
305	8	2.97	9	51	51	4	0
305	9	1.35	9	45	45	4	0
305	10	358.4	9	51	51	4	0
305	11	4.01	9	52	52	4	0
305	12	357.58	9	43	43	3	0
305	13	3.09	9	56	56	3	0
305	14	359.17	9	57	57	4	0
305	15	0.53	9	56	56	4	0
305	16	11.39	10	52	52	4	0
305	17	12.72	10	42	42	4	0
305	18	8.83	9	37	37	4	0
305	19	13.41	10	46	46	4	0
305	20	12.77	10	45	45	4	0
305	21	10.18	9	46	46	4	0
305	22	0.13	9	39	39	4	0
305	23	7.77	9	41	41	4	0
305	24	355.95	9	40	40	4	0
306	1	3.95	9	50	50	4	0
306	2	6.97	9	43	43	4	0
306	3	9.75	9	46	46	4	0
306	4	9.47	9	38	38	4	0
306	5	11.25	10	37	37	4	0
306	6	12.42	10	44	44	4	0
306	7	12.72	10	48	48	4	0
306	8	8.9	9	46	46	4	0
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306	11	355.18	9	48	48	4	0
306	12	358.78	9	57	57	4	0
306	13	0.42	9	60	60	4	0
306	14	358.1	9	54	54	4	0
306	15	353.87	9	49	49	4	0
306	16	358.18	9	48	48	4	0
306	17	6.13	9	37	37	4	0
306	18	14.75	10	33	33	4	0
306	19	13.33	10	46	46	4	0
306	20	12.34	10	50	50	4	0
306	21	11.97	10	52	52	4	0
306	22	15.32	10	55	55	4	0
306	23	12.62	10	40	40	4	0
306	24	359.6	9	38	38	4	0
307	1	8.84	9	48	48	4	0
307	2	14.6	10	45	45	4	0
307	3	11.3	10	44	44	4	0

307	4	10.46	9	50	50	4	0
307	5	10.92	9	45	45	4	0
307	6	21.65	10	38	38	4	0
307	7	17.39	10	58	58	4	0
307	8	23.54	10	38	38	4	0
307	9	13.65	10	39	39	4	0
307	10	10.19	9	46	46	4	0
307	11	5.03	9	49	49	4	0
307	12	0.31	9	47	47	4	0
307	13	2.22	9	42	42	4	0
307	14	0.14	9	48	48	4	0
307	15	0.82	9	43	43	4	0
307	16	5.54	9	35	35	4	0
307	17	12.5	10	37	37	4	0
307	18	9.49	9	38	38	4	0
307	19	9.78	9	37	37	4	0
307	20	15.45	10	35	35	4	0
307	21	19.03	10	33	33	4	0
307	22	7.57	9	39	39	4	0
307	23	7.83	9	43	43	4	0
307	24	12.96	10	49	49	4	0
308	1	15.83	10	50	50	4	0
308	2	11.65	10	51	51	4	0
308	3	15.15	10	41	41	4	0
308	4	10.4	9	26	26	4	0
308	5	15.7	10	29	29	4	0
308	6	9.68	9	33	33	4	0
308	7	12.09	10	30	30	4	0
308	8	8.6	9	34	34	4	0
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308	10	7.04	9	34	34	4	0
308	11	353.33	9	27	27	4	0
308	12	349.95	9	25	25	4	0
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308	14	7.32	9	28	28	4	0
308	15	25.87	10	20	20	4	0
308	16	350.29	9	13	13	4	0
308	17	1.15	9	16	16	5	0
308	18	24.24	10	18	18	5	0
308	19	53.68	11	16	16	5	0
308	20	46.43	11	11	11	6	0
308	21	65.83	12	13	13	6	0
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308	23	31.82	10	14	14	6	0
308	24	26.85	10	13	13	6	0
309	1	71.79	12	9	9	6	0
309	2	55.42	11	9	9	5	0
309	3	38.58	11	11	11	5	0
309	4	39	11	26	26	5	0

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309	6	34.48	11	28	28	6	0
309	7	33.66	10	29	29	6	0
309	8	60.75	12	12	12	6	0
309	9	40.26	11	16	16	5	0
309	10	21.7	10	13	13	5	0
309	11	203.31	2	16	16	4	0
309	12	223.63	3	15	15	4	0
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309	14	283.31	6	19	19	4	0
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309	16	303.11	6	17	17	4	0
309	17	308.52	7	13	13	4	0
309	18	307.19	7	20	20	4	0
309	19	290.63	6	28	28	4	0
309	20	306.39	7	31	31	4	0
309	21	306.57	7	26	26	4	0
309	22	322.27	7	24	24	4	0
309	23	330.58	8	20	20	4	0
309	24	316.65	7	23	23	4	0
310	1	316.21	7	20	20	4	0
310	2	327.02	8	18	18	4	0
310	3	315.78	7	23	23	4	0
310	4	305.95	7	34	34	4	0
310	5	312.57	7	22	22	4	0
310	6	306.3	7	25	25	4	0
310	7	325.92	7	21	21	4	0
310	8	313.28	7	20	20	4	0
310	9	325.27	7	23	23	4	0
310	10	323.51	7	33	33	4	0
310	11	323.79	7	35	35	4	0
310	12	335.69	8	35	35	4	0
310	13	315.3	7	31	31	4	0
310	14	328.66	8	34	34	4	0
310	15	332.45	8	36	36	4	0
310	16	353.48	9	41	41	4	0
310	17	338.62	8	30	30	4	0
310	18	328.89	8	32	32	4	0
310	19	329.64	8	33	33	4	0
310	20	331.42	8	32	32	4	0
310	21	347.63	8	34	34	4	0
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311	5	326.66	8	20	20	4	0

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311	7	341.09	8	17	17	4	0
311	8	334.5	8	17	17	4	0
311	9	341.43	8	27	27	4	0
311	10	356.8	9	33	33	4	0
311	11	0.8	9	38	38	3	0
311	12	4.34	9	39	39	3	0
311	13	10.04	9	34	34	3	0
311	14	12.7	10	31	31	4	0
311	15	11.93	10	29	29	4	0
311	16	4.74	9	29	29	4	0
311	17	345.41	8	22	22	4	0
311	18	2.77	9	20	20	4	0
311	19	11.35	10	13	13	5	0
311	20	22.97	10	13	13	5	0
311	21	21.62	10	17	17	5	0
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312	3	5.03	9	28	28	4	0
312	4	2.21	9	29	29	4	0
312	5	11.56	10	28	28	4	0
312	6	0.59	9	27	27	4	0
312	7	2.24	9	32	32	4	0
312	8	11.59	10	40	40	4	0
312	9	0.84	9	36	36	4	0
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312	14	359.25	9	33	33	4	0
312	15	2.97	9	32	32	4	0
312	16	0.96	9	27	27	4	0
312	17	0.11	9	26	26	4	0
312	18	6.65	9	21	21	4	0
312	19	5.03	9	24	24	4	0
312	20	18.54	10	19	19	4	0
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313	18	42.93	11	16	16	5	0
313	19	34.75	11	21	21	5	0
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313	22	23.74	10	26	26	5	0
313	23	24.1	10	22	22	5	0
313	24	38.74	11	15	15	5	0
314	1	47.87	11	11	11	5	0
314	2	31	10	25	25	6	0
314	3	32.93	10	22	22	6	0
314	4	33.18	10	26	26	6	0
314	5	29.67	10	20	20	5	0
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314	7	67.12	12	14	14	5	0
314	8	24.91	10	19	19	5	0
314	9	36.23	11	14	14	5	0
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314	11	20.2	10	11	11	4	0
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314	13	237.4	4	11	11	4	0
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314	15	184.89	1	21	21	4	0
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314	18	162.56	16	13	13	4	0
314	19	163.58	16	13	13	4	0
314	20	153.98	16	12	12	4	0
314	21	162.32	16	12	12	5	3
314	22	131.84	15	6	6	5	1
314	23	166.72	16	13	13	5	1
314	24	165.03	16	15	15	4	10
315	1	177.35	1	16	16	5	1
315	2	172.35	1	17	17	4	5
315	3	207.47	2	8	8	5	3
315	4	115.22	14	9	9	4	26
315	5	46.38	11	12	12	4	25
315	6	38.69	11	11	11	4	1
315	7	36.52	11	21	21	4	7

315	8	66.52	12	17	17	4	19
315	9	5.19	9	16	16	4	10
315	10	17.84	10	26	26	4	0
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315	13	343.55	8	18	18	4	0
315	14	305.25	7	13	13	4	1
315	15	267.79	5	22	22	4	0
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315	17	265.43	5	21	21	4	0
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315	19	278.68	5	22	22	4	0
315	20	293.14	6	24	24	4	0
315	21	336.13	8	22	22	4	0
315	22	355.96	9	21	21	4	0
315	23	1.92	9	19	19	4	0
315	24	8.83	9	23	23	4	1
316	1	353.35	9	26	26	4	1
316	2	347.02	8	24	24	4	4
316	3	342.59	8	31	31	4	1
316	4	339.34	8	29	29	4	1
316	5	345	8	33	33	4	0
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316	15	357.47	9	39	39	4	0
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316	19	347.57	8	39	39	4	0
316	20	347.88	8	42	42	4	0
316	21	349.06	9	44	44	4	0
316	22	350.47	9	40	40	4	0
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317	12	0.76	9	43	43	3	0
317	13	353.27	9	36	36	3	0
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317	15	341.83	8	30	30	4	0
317	16	353.94	9	29	29	4	0
317	17	12.25	10	27	27	4	0
317	18	16.7	10	32	32	4	0
317	19	8.64	9	29	29	4	0
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317	21	356.57	9	23	23	4	0
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317	24	0.18	9	33	33	4	0
318	1	2.23	9	33	33	4	0
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318	12	22.37	10	9	9	4	0
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318	14	192.1	2	19	19	4	0
318	15	161.66	16	17	17	4	0
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319	5	71.63	12	12	12	5	0
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319	7	81.4	13	11	11	5	0
319	8	107.94	14	8	8	4	0
319	9	140.77	15	20	20	4	0

319	10	172.77	1	7	7	5	7
319	11	130.45	15	6	6	4	1
319	12	139.44	15	10	10	4	0
319	13	157.56	16	16	16	4	1
319	14	157.82	16	18	18	4	0
319	15	133.14	15	7	7	4	1
319	16	168.85	1	22	22	4	0
319	17	270.11	5	25	25	4	11
319	18	327.86	8	25	25	4	0
319	19	346.69	8	26	26	4	0
319	20	299.29	6	18	18	4	0
319	21	300.3	6	30	30	4	0
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320	14	319.64	7	34	34	4	0
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320	16	287	6	37	37	4	0
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320	20	284.77	6	28	28	4	0
320	21	287.36	6	26	26	4	0
320	22	279.73	5	30	30	4	0
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321	15	190.35	1	33	33	4	0
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321	17	182.43	1	27	27	4	0
321	18	191.02	1	41	41	4	0
321	19	190.52	1	45	45	4	0
321	20	188.79	1	38	38	4	0
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321	22	187.49	1	35	35	4	0
321	23	184.98	1	33	33	4	0
321	24	191.77	2	28	28	4	0
322	1	190.95	1	27	27	4	0
322	2	191.04	1	25	25	4	0
322	3	192.6	2	26	26	4	0
322	4	192.82	2	27	27	4	0
322	5	184.81	1	27	27	4	0
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322	7	181.43	1	26	26	5	0
322	8	174.67	1	25	25	5	0
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322	11	276.36	5	41	41	4	0
322	12	268.1	5	36	36	4	0
322	13	270.77	5	38	38	3	0
322	14	282.45	6	40	40	4	0
322	15	293.63	6	35	35	4	0
322	16	294.36	6	33	33	4	0
322	17	301.92	6	30	30	4	0
322	18	293.95	6	40	40	4	0
322	19	291.47	6	41	41	4	0
322	20	299.55	6	34	34	4	0
322	21	297.93	6	37	37	4	0
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322	23	297.38	6	20	20	4	0
322	24	278.64	5	24	24	4	0
323	1	287.17	6	23	23	4	0
323	2	286	6	24	24	4	0
323	3	286.35	6	25	25	4	0
323	4	278.08	5	19	19	4	0
323	5	278.26	5	20	20	4	0
323	6	281.37	6	24	24	4	0
323	7	277.93	5	25	25	4	0
323	8	279.76	5	26	26	4	0
323	9	295.51	6	36	36	4	0
323	10	303.49	6	28	28	4	0
323	11	304.66	7	34	34	4	0

323	12	295.8	6	31	31	3	0
323	13	286.21	6	30	30	3	0
323	14	273.47	5	28	28	4	0
323	15	276.86	5	31	31	4	0
323	16	258.8	5	29	29	4	0
323	17	259.35	5	25	25	4	0
323	18	239.73	4	23	23	4	0
323	19	259.4	5	26	26	4	0
323	20	267.7	5	20	20	4	0
323	21	255.55	4	22	22	4	0
323	22	233.79	3	15	15	4	0
323	23	239.24	4	15	15	4	0
323	24	197.17	2	13	13	4	0
324	1	191.1	1	15	15	4	0
324	2	187.4	1	16	16	4	0
324	3	233.83	3	11	11	4	0
324	4	256.77	4	19	19	4	0
324	5	261.58	5	22	22	4	0
324	6	296.13	6	30	30	4	0
324	7	292.01	6	21	21	4	0
324	8	309	7	18	18	4	0
324	9	289.05	6	17	17	4	0
324	10	303.16	6	20	20	4	0
324	11	307.64	7	24	24	4	0
324	12	299.11	6	19	19	3	0
324	13	318.62	7	14	14	4	0
324	14	162.4	16	14	14	4	0
324	15	167.01	16	15	15	4	0
324	16	199.31	2	15	15	4	0
324	17	205	2	11	11	4	0
324	18	213.31	2	8	8	4	0
324	19	152.09	16	8	8	5	0
324	20	160.34	16	9	9	5	0
324	21	52.98	11	9	9	5	0
324	22	35.36	11	15	15	5	0
324	23	49.59	11	14	14	5	0
324	24	30.8	10	12	12	5	0
325	1	35.32	11	16	16	5	0
325	2	30.42	10	16	16	5	0
325	3	38.62	11	11	11	5	0
325	4	36.94	11	13	13	5	0
325	5	26.51	10	11	11	5	0
325	6	23.28	10	11	11	5	0
325	7	45.06	11	10	10	5	0
325	8	35.36	11	8	8	5	0
325	9	128.16	15	6	6	5	0
325	10	178.04	1	13	13	4	0
325	11	170.21	1	20	20	4	0
325	12	175.91	1	31	31	4	0

325	13	170.99	1	33	33	3	0
325	14	165.77	16	27	27	3	0
325	15	174.1	1	31	31	4	0
325	16	184.57	1	34	34	4	0
325	17	191.69	2	26	26	4	0
325	18	216.52	3	30	30	4	0
325	19	246.94	4	20	20	4	0
325	20	174.54	1	20	20	4	0
325	21	210.46	2	18	18	4	0
325	22	264.05	5	24	24	4	0
325	23	272.75	5	31	31	4	0
325	24	270.43	5	28	28	4	0
326	1	272.12	5	21	21	4	0
326	2	275.9	5	20	20	4	0
326	3	247.48	4	19	19	4	0
326	4	212.99	2	16	16	4	0
326	5	266.02	5	17	17	4	0
326	6	180.76	1	14	14	4	0
326	7	187.62	1	16	16	4	0
326	8	232.15	3	20	20	4	0
326	9	231.84	3	22	22	4	0
326	10	265.9	5	22	22	4	0
326	11	298.51	6	22	22	4	0
326	12	285.11	6	33	33	4	0
326	13	289.58	6	29	29	3	0
326	14	282	6	33	33	4	0
326	15	278.61	5	32	32	4	0
326	16	267.4	5	29	29	4	0
326	17	281.48	6	30	30	4	0
326	18	276.74	5	25	25	4	0
326	19	286.85	6	33	33	4	0
326	20	285.75	6	32	32	4	0
326	21	290.55	6	38	38	4	0
326	22	288.13	6	33	33	4	0
326	23	297.32	6	33	33	4	0
326	24	297.32	6	33	33	4	0
327	1	270.24	5	24	24	4	0
327	2	274.72	5	25	25	4	0
327	3	280.1	5	24	24	4	0
327	4	286.88	6	26	26	4	0
327	5	291.9	6	24	24	4	0
327	6	285.91	6	21	21	4	0
327	7	270.09	5	24	24	4	0
327	8	282.03	6	26	26	4	0
327	9	291.9	6	24	24	4	0
327	10	299.81	6	29	29	4	0
327	11	290.1	6	37	37	4	0
327	12	290.1	6	43	43	4	0
327	13	299.99	6	41	41	4	0

327	14	284.14	6	40	40	3	0
327	15	280.77	5	36	36	4	0
327	16	276.84	5	33	33	4	0
327	17	274.87	5	25	25	4	0
327	18	277.26	5	23	23	4	0
327	19	274.02	5	36	36	4	0
327	20	275.08	5	34	34	4	0
327	21	280.38	5	33	33	4	0
327	22	285.11	6	35	35	4	0
327	23	294.39	6	27	27	4	0
327	24	295.06	6	24	24	4	0
328	1	315.54	7	34	34	4	0
328	2	304.75	7	30	30	4	0
328	3	309.29	7	25	25	4	0
328	4	310.45	7	31	31	4	0
328	5	309.73	7	27	27	4	0
328	6	318.58	7	25	25	4	0
328	7	335.35	8	21	21	4	0
328	8	273.45	5	21	21	4	0
328	9	296.47	6	22	22	4	0
328	10	302.51	6	24	24	4	0
328	11	324.86	7	20	20	4	0
328	12	329.72	8	26	26	3	0
328	13	327.33	8	25	25	3	0
328	14	307.83	7	20	20	3	0
328	15	308.53	7	22	22	3	0
328	16	301.08	6	27	27	4	0
328	17	296.5	6	27	27	4	0
328	18	291.45	6	26	26	4	0
328	19	311.54	7	27	27	4	0
328	20	314.29	7	32	32	4	0
328	21	341.44	8	28	28	4	0
328	22	337.42	8	26	26	4	0
328	23	324.56	7	25	25	4	0
328	24	316.21	7	26	26	4	0
329	1	338.64	8	25	25	4	0
329	2	341.54	8	21	21	4	0
329	3	337.22	8	21	21	4	0
329	4	339.52	8	21	21	4	0
329	5	338.8	8	19	19	4	0
329	6	42.81	11	16	16	5	0
329	7	63.2	12	12	12	5	0
329	8	45.53	11	16	16	5	0
329	9	44.54	11	15	15	4	0
329	10	122.24	14	11	11	4	0
329	11	64.89	12	13	13	4	0
329	12	4.76	9	13	13	4	0
329	13	283.9	6	22	22	3	0
329	14	296.52	6	26	26	3	0

329	15	299.13	6	23	23	4	0
329	16	332.94	8	20	20	4	0
329	17	350.03	9	16	16	4	0
329	18	353.68	9	14	14	4	0
329	19	26.53	10	11	11	4	0
329	20	51.61	11	12	12	4	0
329	21	71.64	12	11	11	5	0
329	22	74.34	12	12	12	5	0
329	23	43.85	11	16	16	5	0
329	24	41.03	11	13	13	5	0
330	1	31.25	10	25	25	5	0
330	2	38	11	20	20	5	0
330	3	40.49	11	14	14	5	0
330	4	31.4	10	27	27	5	0
330	5	35.96	11	23	23	5	0
330	6	35.32	11	20	20	5	0
330	7	38.5	11	17	17	5	0
330	8	47.79	11	15	15	5	0
330	9	52.21	11	11	11	5	0
330	10	35.26	11	16	16	4	0
330	11	44.96	11	9	9	4	0
330	12	14.23	10	13	13	4	0
330	13	345.1	8	13	13	4	0
330	14	352.92	9	9	9	4	0
330	15	229.28	3	8	8	4	0
330	16	181.2	1	8	8	4	0
330	17	85.15	13	8	8	4	0
330	18	96.05	13	8	8	4	0
330	19	73.19	12	8	8	4	0
330	20	48.26	11	9	9	4	0
330	21	24.19	10	11	11	4	0
330	22	18.28	10	19	19	4	0
330	23	23.03	10	22	22	4	0
330	24	19.92	10	19	19	4	0
331	1	19.57	10	19	19	4	0
331	2	14.47	10	21	21	4	0
331	3	15.16	10	20	20	4	0
331	4	17.78	10	24	24	4	0
331	5	12.82	10	23	23	4	1
331	6	358.75	9	20	20	4	3
331	7	351.92	9	21	21	5	3
331	8	24.54	10	22	22	5	2
331	9	60.38	12	20	20	5	8
331	10	60.33	12	20	20	4	15
331	11	77.25	12	23	23	4	26
331	12	127.69	15	19	19	4	27
331	13	78.9	13	16	16	4	3
331	14	23.89	10	19	19	4	12
331	15	358.66	9	15	15	5	3

331	16	353.01	9	20	20	5	0
331	17	18.33	10	31	31	4	0
331	18	17.19	10	32	32	4	0
331	19	9.74	9	22	22	4	0
331	20	11.74	10	24	24	4	0
331	21	13.54	10	17	17	4	0
331	22	6.68	9	14	14	4	0
331	23	18.12	10	14	14	4	0
331	24	135.22	15	7	7	5	0
332	1	133.81	15	8	8	5	0
332	2	192.21	2	11	11	5	0
332	3	147.58	16	10	10	5	0
332	4	157.3	16	11	11	5	0
332	5	168.35	16	9	9	5	0
332	6	196.21	2	6	6	5	0
332	7	160.49	16	7	7	5	0
332	8	176.86	1	8	8	5	0
332	9	156.91	16	10	10	5	0
332	10	210.93	2	16	16	4	0
332	11	279.75	5	29	29	4	0
332	12	267.58	5	30	30	4	0
332	13	271.42	5	34	34	4	0
332	14	272.53	5	26	26	4	0
332	15	274.58	5	22	22	4	0
332	16	276.65	5	25	25	4	0
332	17	272.27	5	22	22	4	0
332	18	258.21	4	20	20	4	0
332	19	261.95	5	19	19	4	0
332	20	228.08	3	15	15	4	0
332	21	225.31	3	15	15	4	0
332	22	203.46	2	15	15	4	0
332	23	246.57	4	16	16	4	0
332	24	235.68	3	18	18	4	0
333	1	257	4	20	20	4	0
333	2	262.95	5	17	17	4	0
333	3	284.98	6	22	22	4	0
333	4	300.02	6	17	17	4	0
333	5	290.25	6	19	19	4	0
333	6	259.41	5	15	15	4	0
333	7	242.82	4	13	13	4	0
333	8	232.12	3	11	11	5	0
333	9	229.02	3	16	16	4	0
333	10	229.44	3	13	13	4	0
333	11	279.79	5	16	16	4	0
333	12	305.13	7	16	16	4	0
333	13	283.07	6	19	19	4	0
333	14	263.96	5	18	18	4	0
333	15	242.51	4	13	13	4	0
333	16	210.53	2	13	13	4	0

333	17	186.08	1	14	14	4	0
333	18	173.29	1	12	12	4	0
333	19	200.1	2	6	6	5	0
333	20	231.04	3	6	6	5	0
333	21	154.51	16	9	9	5	0
333	22	191.07	1	13	13	5	0
333	23	275.92	5	20	20	4	0
333	24	264.83	5	21	21	4	0
334	1	284	6	38	38	4	0
334	2	290.21	6	35	35	4	0
334	3	311.44	7	30	30	4	0
334	4	312.27	7	30	30	4	0
334	5	295.69	6	22	22	4	0
334	6	288.24	6	24	24	4	0
334	7	282.04	6	22	22	4	0
334	8	291.75	6	26	26	5	0
334	9	292.53	6	28	28	4	0
334	10	305.19	7	22	22	4	0
334	11	301.03	6	26	26	4	0
334	12	289.07	6	23	23	3	0
334	13	275.09	5	22	22	3	0
334	14	291.08	6	22	22	4	0
334	15	282.15	6	19	19	4	0
334	16	296.91	6	13	13	4	0
334	17	32.79	10	8	8	4	0
334	18	114.13	14	7	7	5	0
334	19	84.1	13	10	10	5	0
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334	21	135.8	15	10	10	5	0
334	22	84.37	13	8	8	5	0
334	23	95.91	13	9	9	5	0
334	24	117.2	14	12	12	5	0
335	1	126.13	15	12	12	4	1
335	2	188.24	1	7	7	4	2
335	3	59.45	12	11	11	4	0
335	4	33.43	10	18	18	4	0
335	5	20.59	10	20	20	4	0
335	6	13.57	10	19	19	4	0
335	7	12.83	10	23	23	4	0
335	8	348.83	9	23	23	4	0
335	9	340.69	8	23	23	4	0
335	10	352.9	9	27	27	4	0
335	11	347.41	8	29	29	4	0
335	12	345.71	8	27	27	4	0
335	13	358.38	9	24	24	4	0
335	14	323.58	7	25	25	4	0
335	15	307.55	7	40	40	4	0
335	16	311.71	7	41	41	4	0
335	17	313.83	7	38	38	4	0

335	18	313.86	7	35	35	4	0
335	19	317.12	7	30	30	4	0
335	20	315.59	7	27	27	4	0
335	21	298.49	6	27	27	4	0
335	22	291.82	6	33	33	4	0
335	23	290.4	6	39	39	4	0
335	24	292.74	6	40	40	4	0
336	1	294.82	6	40	40	4	0
336	2	293.45	6	42	42	4	0
336	3	291.05	6	40	40	4	0
336	4	291.09	6	35	35	4	0
336	5	290.11	6	33	33	4	0
336	6	287.2	6	27	27	4	0
336	7	293.45	6	30	30	4	0
336	8	289.94	6	29	29	4	0
336	9	293.02	6	24	24	4	0
336	10	302.18	6	24	24	3	0
336	11	291.36	6	27	27	3	0
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336	13	296.57	6	26	26	3	0
336	14	298.21	6	27	27	3	0
336	15	314.53	7	28	28	4	0
336	16	313.02	7	24	24	4	0
336	17	313.36	7	21	21	4	0
336	18	294.39	6	19	19	4	0
336	19	325.92	7	23	23	4	0
336	20	333.19	8	25	25	4	0
336	21	327.73	8	24	24	4	0
336	22	333.03	8	25	25	4	0
336	23	332.32	8	26	26	4	0
336	24	323.02	7	28	28	4	0
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337	2	332.02	8	30	30	4	0
337	3	342.14	8	22	22	4	0
337	4	347.9	8	21	21	4	0
337	5	335.89	8	18	18	4	0
337	6	336.77	8	27	27	4	0
337	7	339.33	8	23	23	4	0
337	8	354.02	9	27	27	4	0
337	9	339.38	8	24	24	4	0
337	10	348.82	9	32	32	4	0
337	11	356.86	9	30	30	4	0
337	12	7.05	9	35	35	4	0
337	13	6.22	9	31	31	4	0
337	14	11.36	10	32	32	4	0
337	15	3.52	9	31	31	4	0
337	16	333.51	8	31	31	4	0
337	17	328.15	8	25	25	4	0
337	18	327.11	8	27	27	4	0

337	19	336.75	8	28	28	4	0
337	20	346.85	8	30	30	4	0
337	21	336.86	8	23	23	4	0
337	22	334.79	8	23	23	4	0
337	23	340.77	8	23	23	4	0
337	24	340.15	8	24	24	4	0
338	1	6.73	9	17	17	4	0
338	2	66.6	12	14	14	5	0
338	3	40.97	11	16	16	5	0
338	4	6.67	9	22	22	4	0
338	5	351.48	9	18	18	4	0
338	6	4.83	9	19	19	4	0
338	7	15.83	10	20	20	4	0
338	8	4.55	9	17	17	4	0
338	9	359.02	9	26	26	4	0
338	10	14.05	10	20	20	4	0
338	11	11.52	10	20	20	4	0
338	12	357.19	9	25	25	4	0
338	13	7.45	9	32	32	3	0
338	14	11.03	9	37	37	4	0
338	15	2.93	9	30	30	4	0
338	16	359.39	9	23	23	4	0
338	17	330.7	8	11	11	4	0
338	18	348.14	8	13	13	5	0
338	19	67.7	12	15	15	5	0
338	20	52.03	11	15	15	5	0
338	21	38.28	11	22	22	5	0
338	22	19.57	10	31	31	5	0
338	23	11.22	9	32	32	5	0
338	24	62.75	12	19	19	5	0
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339	3	6.54	9	39	39	5	0
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339	7	90.4	13	14	14	5	0
339	8	51.7	11	19	19	5	0
339	9	26.04	10	35	35	5	0
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339	11	13.53	10	39	39	4	0
339	12	13.65	10	35	35	4	0
339	13	14.11	10	35	35	4	0
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339	16	38.04	11	18	18	4	0
339	17	14.81	10	13	13	5	0
339	18	53.74	11	13	13	5	0
339	19	34.99	11	23	23	6	0

339	20	33	10	23	23	6	0
339	21	32.46	10	19	19	6	0
339	22	33.63	10	13	13	6	0
339	23	32.2	10	14	14	6	0
339	24	21.81	10	13	13	6	0
340	1	23.24	10	9	9	6	0
340	2	12.71	10	8	8	6	0
340	3	8.39	9	7	7	5	0
340	4	32.59	10	6	6	5	0
340	5	23.78	10	7	7	5	0
340	6	33.72	10	6	6	5	0
340	7	4.21	9	6	6	5	0
340	8	232.62	3	7	7	5	0
340	9	256.91	4	8	8	4	0
340	10	181.7	1	28	28	4	0
340	11	164.57	16	20	20	4	0
340	12	173.78	1	27	27	4	0
340	13	176.86	1	33	33	4	0
340	14	221.19	3	38	38	4	0
340	15	252.69	4	31	31	4	0
340	16	232.31	3	24	24	4	0
340	17	211.3	2	29	29	4	0
340	18	199.37	2	28	28	4	0
340	19	259.42	5	31	31	4	0
340	20	283.71	6	34	34	4	0
340	21	292.38	6	34	34	4	0
340	22	310.15	7	37	37	4	0
340	23	303.36	6	31	31	4	0
340	24	305.02	7	38	38	4	0
341	1	294.6	6	33	33	4	0
341	2	297.95	6	29	29	4	0
341	3	295.43	6	29	29	4	0
341	4	293.01	6	24	24	4	0
341	5	298.13	6	30	30	4	0
341	6	302.32	6	25	25	4	0
341	7	289.07	6	26	26	4	0
341	8	285.05	6	24	24	4	0
341	9	305.82	7	27	27	4	0
341	10	302.9	6	29	29	4	0
341	11	307.58	7	27	27	3	0
341	12	301.01	6	23	23	3	0
341	13	281.49	6	23	23	3	0
341	14	275.71	5	19	19	4	0
341	15	284.08	6	24	24	4	0
341	16	273.78	5	22	22	4	0
341	17	213.28	2	16	16	4	0
341	18	195.38	2	17	17	4	0
341	19	192.9	2	20	20	4	0
341	20	191.81	2	16	16	5	0

341	21	186.37	1	21	21	5	0
341	22	185.03	1	16	16	4	0
341	23	184.45	1	14	14	5	0
341	24	176.11	1	16	16	5	0
342	1	168.62	16	13	13	5	0
342	2	154.74	16	10	10	5	0
342	3	187.07	1	26	26	4	0
342	4	188.54	1	24	24	4	0
342	5	192.41	2	24	24	4	0
342	6	191.82	2	26	26	4	0
342	7	212.9	2	20	20	4	0
342	8	252.86	4	28	28	4	0
342	9	257.07	4	25	25	4	0
342	10	269.46	5	25	25	4	0
342	11	284.94	6	33	33	4	0
342	12	278	5	34	34	4	0
342	13	309.92	7	32	32	4	0
342	14	313.19	7	31	31	4	0
342	15	285.95	6	36	36	4	0
342	16	316.44	7	30	30	4	0
342	17	321.63	7	26	26	4	0
342	18	304.01	7	19	19	4	0
342	19	314.59	7	19	19	4	0
342	20	304.74	7	17	17	4	0
342	21	311.64	7	17	17	4	0
342	22	306.68	7	14	14	4	0
342	23	307.15	7	13	13	4	0
342	24	4.68	9	11	11	4	0
343	1	25.4	10	15	15	4	0
343	2	98.38	13	9	9	4	0
343	3	93.6	13	10	10	4	0
343	4	71.78	12	13	13	4	0
343	5	72.7	12	11	11	4	0
343	6	80.2	13	9	9	4	0
343	7	44.1	11	14	14	4	0
343	8	38.92	11	20	20	4	0
343	9	36.2	11	21	21	4	0
343	10	29.71	10	20	20	4	0
343	11	26.79	10	22	22	4	0
343	12	24.74	10	26	26	4	0
343	13	16.68	10	22	22	4	0
343	14	11.08	9	23	23	4	0
343	15	20.29	10	19	19	4	0
343	16	18.32	10	19	19	4	0
343	17	37.77	11	20	20	4	0
343	18	5.39	9	17	17	4	0
343	19	36.4	11	20	20	4	0
343	20	6.39	9	21	21	4	0
343	21	5.15	9	21	21	4	0

343	22	26.71	10	18	18	4	0
343	23	64.37	12	13	13	4	0
343	24	24.49	10	16	16	4	0
344	1	83.22	13	10	10	5	0
344	2	102.81	14	10	10	5	0
344	3	352.08	9	15	15	4	0
344	4	271.26	5	21	21	5	0
344	5	287.61	6	22	22	4	0
344	6	288.95	6	16	16	4	0
344	7	323.66	7	18	18	4	0
344	8	68.83	12	12	12	5	0
344	9	60.21	12	15	15	5	0
344	10	354.59	9	32	32	4	0
344	11	2.68	9	35	35	4	0
344	12	4.92	9	33	33	4	0
344	13	0.68	9	27	27	4	0
344	14	35.78	11	28	28	4	0
344	15	40.87	11	26	26	4	0
344	16	21.33	10	17	17	4	0
344	17	64.17	12	12	12	4	0
344	18	69.7	12	11	11	4	0
344	19	41.93	11	14	14	5	0
344	20	24.72	10	19	19	5	0
344	21	32.37	10	26	26	5	0
344	22	37.47	11	23	23	5	0
344	23	29.34	10	15	15	5	0
344	24	13.72	10	15	15	5	0
345	1	45.19	11	14	14	5	0
345	2	33.75	11	17	17	5	0
345	3	31.42	10	18	18	5	0
345	4	28.3	10	19	19	5	0
345	5	41.88	11	21	21	5	0
345	6	37.82	11	24	24	5	0
345	7	44.25	11	19	19	5	0
345	8	37.4	11	15	15	5	0
345	9	41.34	11	16	16	5	0
345	10	28.77	10	17	17	4	0
345	11	25.69	10	11	11	4	0
345	12	355.16	9	13	13	4	0
345	13	340.82	8	11	11	4	0
345	14	340.53	8	13	13	4	0
345	15	354.96	9	10	10	4	0
345	16	22.96	10	10	10	4	0
345	17	23.02	10	10	10	4	0
345	18	30.08	10	9	9	4	0
345	19	35.6	11	19	19	5	0
345	20	37.99	11	18	18	5	0
345	21	43.87	11	19	19	5	0
345	22	64.25	12	12	12	5	0

345	23	74.2	12	8	8	5	0
345	24	72.03	12	7	7	5	0
346	1	76.41	12	7	7	5	0
346	2	60.59	12	10	10	5	0
346	3	40.71	11	13	13	5	0
346	4	39.99	11	26	26	5	0
346	5	35.88	11	19	19	5	0
346	6	25.99	10	12	12	5	0
346	7	76.19	12	9	9	6	0
346	8	114.15	14	8	8	5	0
346	9	118.87	14	9	9	5	0
346	10	77.95	12	13	13	4	0
346	11	14.94	10	17	17	4	0
346	12	34.61	11	23	23	4	0
346	13	57.73	12	18	18	4	0
346	14	63.47	12	13	13	4	0
346	15	149.25	16	13	13	4	0
346	16	191.33	2	11	11	4	0
346	17	123.84	15	9	9	4	0
346	18	42.42	11	13	13	5	0
346	19	42.82	11	19	19	5	0
346	20	78.32	12	11	11	5	0
346	21	111.94	14	7	7	5	0
346	22	98.93	13	7	7	5	0
346	23	210.85	2	11	11	5	0
346	24	197.41	2	11	11	5	0
347	1	303.45	6	7	7	5	0
347	2	163.78	16	11	11	5	0
347	3	169.63	1	46	46	5	0
347	4	173.59	1	46	46	5	0
347	5	183.72	1	54	54	4	0
347	6	189.8	1	54	54	4	0
347	7	193.27	2	58	58	4	0
347	8	200.16	2	51	51	5	0
347	9	235.6	3	68	68	4	0
347	10	262.65	5	73	73	4	0
347	11	262.67	5	64	64	4	0
347	12	270.06	5	59	59	4	0
347	13	295.32	6	64	64	4	0
347	14	310.16	7	54	54	4	0
347	15	316.46	7	53	53	4	0
347	16	315.79	7	51	51	4	0
347	17	310.08	7	47	47	4	0
347	18	309.55	7	46	46	4	0
347	19	313.4	7	42	42	4	0
347	20	305.93	7	58	58	4	0
347	21	315.01	7	45	45	4	0
347	22	323.08	7	33	33	4	0
347	23	325.4	7	27	27	4	0

347	24	309.78	7	28	28	4	0
348	1	325.36	7	29	29	4	0
348	2	325.19	7	21	21	4	0
348	3	320.06	7	24	24	4	0
348	4	323.34	7	22	22	4	0
348	5	344.51	8	16	16	4	0
348	6	347.38	8	17	17	4	0
348	7	348.45	8	20	20	4	0
348	8	357.26	9	16	16	4	0
348	9	357.35	9	21	21	4	0
348	10	14.14	10	25	25	4	0
348	11	15.3	10	24	24	4	0
348	12	0.1	9	23	23	4	0
348	13	16.36	10	27	27	4	0
348	14	7.31	9	23	23	4	0
348	15	7.43	9	19	19	4	0
348	16	359.57	9	14	14	4	0
348	17	20.43	10	15	15	4	0
348	18	44.58	11	10	10	4	0
348	19	24.45	10	6	6	4	0
348	20	46.43	11	14	14	4	0
348	21	58.8	12	16	16	4	0
348	22	138.55	15	12	12	4	0
348	23	119.16	14	9	9	5	0
348	24	136.29	15	9	9	4	0
349	1	123.98	15	9	9	4	0
349	2	15.89	10	11	11	4	0
349	3	13.99	10	18	18	4	2
349	4	3.62	9	20	20	4	11
349	5	359.73	9	18	18	4	3
349	6	357.44	9	25	25	4	14
349	7	12.22	10	27	27	4	23
349	8	14.94	10	22	22	4	17
349	9	357.88	9	20	20	4	0
349	10	48.78	11	14	14	5	0
349	11	39.98	11	19	19	5	0
349	12	33.23	10	17	17	4	0
349	13	76.44	12	15	15	4	0
349	14	49.26	11	21	21	5	0
349	15	44.7	11	20	20	5	0
349	16	84.68	13	14	14	5	0
349	17	209.06	2	11	11	5	0
349	18	253.96	4	17	17	5	0
349	19	256.89	4	24	24	5	0
349	20	294.06	6	29	29	4	0
349	21	311.5	7	37	37	4	0
349	22	318.08	7	30	30	4	0
349	23	328.76	8	31	31	4	0
349	24	324.93	7	26	26	4	0

350	1	331.7	8	31	31	4	0
350	2	325.27	7	27	27	4	0
350	3	309.33	7	22	22	4	0
350	4	324.19	7	22	22	4	0
350	5	330.63	8	22	22	4	0
350	6	23.5	10	35	35	4	0
350	7	13.47	10	34	34	4	0
350	8	3.49	9	31	31	4	0
350	9	8.83	9	32	32	4	0
350	10	8.33	9	32	32	4	0
350	11	6.69	9	32	32	4	0
350	12	5.87	9	32	32	4	0
350	13	353.8	9	28	28	4	0
350	14	342.13	8	22	22	4	0
350	15	344.22	8	21	21	4	0
350	16	343.19	8	18	18	4	0
350	17	5.27	9	14	14	4	0
350	18	35.98	11	17	17	4	0
350	19	80.58	13	13	13	5	0
350	20	51.98	11	11	11	5	0
350	21	51.95	11	14	14	5	0
350	22	138.23	15	9	9	5	0
350	23	81.06	13	11	11	5	0
350	24	47.67	11	17	17	5	0
351	1	33.74	10	23	23	4	0
351	2	73.39	12	6	6	4	0
351	3	53.75	11	12	12	4	0
351	4	4.06	9	9	9	4	0
351	5	30.41	10	11	11	4	0
351	6	10.66	9	10	10	4	0
351	7	10.53	9	13	13	4	0
351	8	305.26	7	10	10	4	0
351	9	16.8	10	20	20	4	0
351	10	349.29	9	14	14	4	0
351	11	351.01	9	14	14	4	0
351	12	355.12	9	16	16	4	0
351	13	338.75	8	10	10	5	0
351	14	16.94	10	9	9	5	0
351	15	11.63	10	10	10	5	0
351	16	125.71	15	10	10	5	0
351	17	351.97	9	10	10	5	2
351	18	10.38	9	13	13	5	1
351	19	342.07	8	12	12	5	0
351	20	357.96	9	15	15	5	0
351	21	346.84	8	13	13	5	8
351	22	25.73	10	16	16	5	3
351	23	17.54	10	22	22	5	0
351	24	10.91	9	19	19	5	0
352	1	13.65	10	19	19	5	0

352	2	17.98	10	15	15	5	0
352	3	17.8	10	18	18	5	3
352	4	1.83	9	10	10	5	0
352	5	262.12	5	8	8	5	0
352	6	182.93	1	26	26	5	2
352	7	165.31	16	52	52	5	10
352	8	171.97	1	82	82	5	0
352	9	168.22	16	67	67	5	15
352	10	170.02	1	49	49	5	40
352	11	159.85	16	55	55	5	1
352	12	164.55	16	68	68	5	7
352	13	161.59	16	48	48	5	54
352	14	154.55	16	24	24	5	7
352	15	186.82	1	36	36	5	0
352	16	173.29	1	36	36	5	1
352	17	158.64	16	24	24	5	0
352	18	180.1	1	35	35	5	0
352	19	224.25	3	27	27	5	0
352	20	283.58	6	68	68	4	0
352	21	287.82	6	62	62	4	1
352	22	234.21	3	33	33	4	0
352	23	240.25	4	42	42	4	0
352	24	261.06	5	45	45	4	0
353	1	255.62	4	47	47	4	0
353	2	247.99	4	31	31	4	0
353	3	221.5	3	35	35	4	0
353	4	234.45	3	33	33	4	0
353	5	239.45	4	32	32	4	0
353	6	227.07	3	34	34	4	0
353	7	260.65	5	30	30	4	0
353	8	273.1	5	30	30	4	0
353	9	271.86	5	30	30	4	0
353	10	307.9	7	35	35	4	0
353	11	300.11	6	36	36	4	0
353	12	290.05	6	39	39	4	0
353	13	292.19	6	31	31	3	0
353	14	291.9	6	28	28	3	0
353	15	288.57	6	31	31	4	0
353	16	283.85	6	21	21	4	0
353	17	308.85	7	16	16	4	0
353	18	292.87	6	15	15	4	0
353	19	235.59	3	9	9	5	0
353	20	194.58	2	11	11	5	0
353	21	199.84	2	13	13	4	0
353	22	117.72	14	11	11	5	0
353	23	116.61	14	8	8	5	0
353	24	65.11	12	9	9	5	0
354	1	12.09	10	9	9	5	0
354	2	41.3	11	11	11	5	0

354	3	4.44	9	12	12	5	0
354	4	47.59	11	13	13	5	0
354	5	39.58	11	20	20	5	0
354	6	47.81	11	14	14	5	0
354	7	38.89	11	11	11	5	0
354	8	16.43	10	13	13	4	0
354	9	71.45	12	7	7	4	0
354	10	166.5	16	7	7	4	0
354	11	209.46	2	10	10	4	0
354	12	131.47	15	8	8	4	0
354	13	344.96	8	9	9	4	0
354	14	358.89	9	14	14	4	0
354	15	355.84	9	12	12	4	0
354	16	353.17	9	16	16	4	0
354	17	12.17	10	22	22	4	0
354	18	18.29	10	23	23	4	0
354	19	10.1	9	28	28	4	0
354	20	10.39	9	28	28	4	0
354	21	10.78	9	32	32	4	0
354	22	13.52	10	32	32	4	0
354	23	9.38	9	38	38	4	0
354	24	8.47	9	43	43	4	0
355	1	11.67	10	48	48	4	0
355	2	355.36	9	41	41	4	0
355	3	0.33	9	33	33	4	0
355	4	6.11	9	22	22	4	1
355	5	346.04	8	27	27	4	0
355	6	337.48	8	33	33	4	0
355	7	326.52	8	24	24	4	0
355	8	313.75	7	33	33	4	0
355	9	294.36	6	39	39	4	0
355	10	296.17	6	42	42	4	0
355	11	295.77	6	37	37	4	0
355	12	288.43	6	46	46	4	0
355	13	291.04	6	44	44	4	0
355	14	295.83	6	48	48	4	0
355	15	306.79	7	39	39	4	0
355	16	309.33	7	42	42	4	0
355	17	300.33	6	38	38	4	0
355	18	301.54	6	29	29	4	0
355	19	303.68	6	29	29	4	0
355	20	277.42	5	23	23	4	0
355	21	261.68	5	17	17	4	0
355	22	264.34	5	18	18	4	0
355	23	279.69	5	22	22	4	0
355	24	304.18	7	32	32	4	0
356	1	314.71	7	15	15	4	0
356	2	264.44	5	15	15	4	0
356	3	141.39	15	11	11	4	0

356	4	333.85	8	14	14	4	0
356	5	31.07	10	18	18	4	0
356	6	33.76	11	18	18	5	0
356	7	54.89	11	16	16	5	0
356	8	43.35	11	10	10	5	0
356	9	46.38	11	12	12	4	0
356	10	10.97	9	12	12	4	0
356	11	222.76	3	13	13	4	0
356	12	172.94	1	19	19	4	0
356	13	173.6	1	16	16	4	0
356	14	177.36	1	20	20	4	0
356	15	166.92	16	23	23	4	0
356	16	168.37	16	23	23	4	0
356	17	175.79	1	28	28	4	0
356	18	168.14	16	26	26	4	0
356	19	189.47	1	26	26	4	0
356	20	194.99	2	12	12	4	0
356	21	193.28	2	12	12	4	0
356	22	190.88	1	24	24	4	0
356	23	196.26	2	14	14	4	0
356	24	175.54	1	17	17	4	0
357	1	179.96	1	14	14	4	0
357	2	166.58	16	9	9	4	0
357	3	132.46	15	8	8	4	0
357	4	145.52	15	9	9	4	0
357	5	219.94	3	12	12	4	0
357	6	207.47	2	9	9	4	0
357	7	197.18	2	12	12	4	0
357	8	180.14	1	14	14	4	0
357	9	201.04	2	13	13	4	0
357	10	234.19	3	9	9	4	0
357	11	26.6	10	10	10	4	0
357	12	29.7	10	9	9	4	0
357	13	328.36	8	9	9	4	0
357	14	250.08	4	8	8	4	0
357	15	286.54	6	15	15	4	0
357	16	318.73	7	19	19	4	0
357	17	286.91	6	22	22	4	0
357	18	279.98	5	19	19	4	0
357	19	289.4	6	30	30	4	0
357	20	301.8	6	42	42	4	0
357	21	313.24	7	46	46	4	0
357	22	325.28	7	47	47	4	0
357	23	316.19	7	42	42	4	0
357	24	306.37	7	44	44	4	0
358	1	314.23	7	50	50	4	0
358	2	315.36	7	51	51	4	0
358	3	295.76	6	41	41	4	0
358	4	320.61	7	21	21	4	0

358	5	303.38	6	20	20	4	0
358	6	317.27	7	21	21	4	0
358	7	341.99	8	22	22	4	0
358	8	355.75	9	21	21	4	0
358	9	319.57	7	28	28	4	0
358	10	317.39	7	32	32	4	0
358	11	308.12	7	28	28	4	0
358	12	304.44	7	25	25	4	0
358	13	290.85	6	29	29	3	0
358	14	282.42	6	32	32	4	0
358	15	293.97	6	33	33	4	0
358	16	307.12	7	30	30	4	0
358	17	283.52	6	15	15	4	0
358	18	252.82	4	13	13	4	0
358	19	231.61	3	18	18	4	0
358	20	235.52	3	13	13	4	0
358	21	274.84	5	11	11	4	0
358	22	257.48	4	9	9	4	0
358	23	168.16	16	11	11	5	0
358	24	233.88	3	16	16	5	0
359	1	255.58	4	15	15	5	0
359	2	180.66	1	13	13	5	0
359	3	156.81	16	11	11	5	0
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03580210050114	000	03580210050114000
03580220040094	000	03580220040094000
03580230160115	000	03580230160115000
03580240030165	000	03580240030165000
03590010040155	000	03590010040155000
03590020010135	000	03590020010135000
03590030160115	000	03590030160115000
03590040130105	000	03590040130105000
03590050130105	000	03590050130105000
03590060090085	000	03590060090085000
03590070100115	000	03590070100115000
03590080100115	000	03590080100115000
03590090090095	000	03590090090095000
03590100020104	000	03590100020104000
03590110010224	000	03590110010224000
03590120010304	000	03590120010304000
03590130010304	000	03590130010304000
03590140010364	000	03590140010364000
03590150010274	000	03590150010274000
03590160010294	000	03590160010294000
03590170010304	000	03590170010304000
03590180020194	000	03590180020194000
03590190020215	000	03590190020215000
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03590220010145	000	03590220010145000
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03600160080414	000	03600160080414000
03600170080404	000	03600170080404000
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03600200080314	000	03600200080314000
03600210070324	000	03600210070324000
03600220070364	000	03600220070364000
03600230060344	000	03600230060344000
03600240060324	000	03600240060324000
03610010060334	000	03610010060334000
03610020060324	000	03610020060324000
03610030060294	000	03610030060294000
03610040060324	000	03610040060324000
03610050060344	000	03610050060344000
03610060060264	000	03610060060264000
03610070060274	000	03610070060274000
03610080050284	000	03610080050284000
03610090060314	000	03610090060314000
03610100060284	000	03610100060284000
03610110060264	000	03610110060264000
03610120070334	000	03610120070334000
03610130070354	000	03610130070354000
03610140070434	000	03610140070434000
03610150070474	000	03610150070474000
03610160070404	000	03610160070404000
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03610190070424	000	03610190070424000
03610200070314	000	03610200070314000
03610210070304	000	03610210070304000
03610220070314	000	03610220070314000
03610230070374	000	03610230070374000
03610240060314	000	03610240060314000
03620010060324	000	03620010060324000
03620020060284	000	03620020060284000
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03620180060234	000	03620180060234000
03620190060224	000	03620190060224000
03620200060224	000	03620200060224000
03620210060224	000	03620210060224000
03620220070214	000	03620220070214000
03620230060194	000	03620230060194000
03620240070234	000	03620240070234000
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03630020070194	000	03630020070194000
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03630090060384	000	03630090060384000
03630100060444	000	03630100060444000
03630110070453	000	03630110070453000
03630120070383	000	03630120070383000
03630130070403	000	03630130070403000
03630140070403	000	03630140070403000
03630150070364	000	03630150070364000
03630160070334	000	03630160070334000
03630170080364	000	03630170080364000
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03630190080314	000	03630190080314000
03630200090334	000	03630200090334000
03630210080304	000	03630210080304000
03630220090294	000	03630220090294000
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03640020090344	000	03640020090344000
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03640120090314	000	03640120090314000
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03640160100294	000	03640160100294000
03640170090224	000	03640170090224000
03640180100234	000	03640180100234000
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03640210090334	000	03640210090334000
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03640230100314	000	03640230100314000
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03650140090455	010	03650140090455010
03650150090364	006	03650150090364006
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03650190080294	001	03650190080294001
03650200060274	000	03650200060274000
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03650230060454	000	03650230060454000
03650240060454	000	03650240060454000

3.3 INSTRUMENTATION

3.3.B Meteorological Monitoring Instrumentation

TRO 3.3.B The Meteorological Monitoring Instrument Channel per Table 3.3.B-1 shall be OPERABLE.

APPLICABILITY: At all times.

----------NOTE----------
1. TRO 3.0.C is not applicable.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The Meteorological Monitoring Instrument Channel is inoperable.	A.1 DEMONSTRATE the ability to obtain meteorological data, using IP-EP-510, AND ----------NOTE---------- Action A.2 is NOT required when IP3 control room meteorological display and/or strip chart recorder are the only inoperable equipment. ----------	1 hour
	A.2 Notify IP2 of system inoperability, AND	1 hour
	A.3 Restore the inoperable Meteorological Instrument Channel to OPERABLE status.	7 days
B. Required Actions and associated Completion Times of Condition A.3 not met.	B.1 Prepare and submit a Special Report to the On-Site Safety Review Committee outlining the actions taken, the cause of the inoperability and the plans for restoring the meteorological monitoring instrumentation channel(s) to OPERABLE status.	10 days

SURVEILLANCE REQUIREMENTS

	SURVEILLANCE	FREQUENCY
TRS 3.3.B.1	----------NOTE---------- Control Room display on the back of the Flight Panel and the Meteorological Strip Chart Recorder are not required to meet the TRO. ---------- Perform CHANNEL CHECK.	24 hours
TRS 3.3.B.2	----------NOTE---------- This surveillance is not required to be performed to meet the TRO. ---------- Perform calibration of meteorological strip chart recorder.	24 months
TRS 3.3.B.3	----------NOTE---------- This surveillance is not required to be performed to meet the TRO when primary power source is available. ---------- DEMONSTRATE Meteorological Diesel Generator OPERABILITY by starting and running for 15 minutes.	31 days
TRS 3.3.B.4	----------NOTE---------- This surveillance is not required to be performed to meet the TRO when primary power source is available. ---------- DEMONSTRATE Diesel Generator Automatic Power Transfer by simulating power loss.	12 months
TRS 3.3.B.5	Perform CHANNEL CALIBRATION.	184 days
TRS 3.3.B.6	Perform CHANNEL OPERATIONAL TEST.	184 days

TABLE 3.3.B-1

Meteorological Monitoring Instrumentation Channels

Instrument Channels	Instrument Channel Minimum Accuracies	Minimum Operable Channels
1. WIND SPEED[1] A. 10m	± 0.5 mph	1
2. WIND DIRECTION[1] A. 10m	± 5°	1
3. ATMOSPHERIC STABILITY (PASQUILL CATEGORY) [2] A. 60 - 10m	± 0.1°C for temperature inputs	1

Note 1 The 60m and 122m level instruments are not required to meet the TRO but are maintained to support Indian Point 2 requirements.

Note 2 The 122-10m delta temperature instruments are not required to meet the TRO but are maintained to support Indian Point 2 requirements.

BASES

BACKGROUND

The meteorological monitoring instrumentation system was installed to meet the requirements, in part, of 10 CFR 50 Appendix A (Reference 1), 10 CFR 50 Appendix E (Reference 2), and 10 CFR 50.47(b)(9) (Reference 3). These sections require that adequate methods, systems, and equipment for assessing and monitoring actual or potential offsite consequences of a radiological emergency be available.

Guidance on the meteorological monitoring requirements is provided in NUREG-0737 (Reference 4), NUREG-0654 (Reference 5), Regulatory Guide 1.23 (Reference 6), and Regulatory Guide 1.97 (Reference 7).

NUREG-0737 required that each nuclear facility "upgrade its emergency plans to provide reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency. Specific criteria to meet this requirement is delineated in NUREG-0654." NUREG-0737 also provided a schedule of implementation milestones to be met in order to address the introduction of NUREG-0654, Appendix 2. Letter IPN-80-117 (Reference 8) addressed each item of NUREG-0737 that was applicable to Indian Point 3 (IP3) and which had not been previously identified as complete. IP3 agreed to the staged implementation schedule required by the NUREG in this letter.

NUREG-0654 was issued, in part, to provide a basis for the development of radiological emergency plans and the improvement of emergency preparedness. Appendix 2 of NUREG-0654 states that "the emergency facilities and equipment as stated in Appendix E to 10 CFR Part 50 shall include '(E)quipment for determining the magnitude of and for continuously assessing the impact of the release of radioactive materials to the environment.' To address this requirement, in part, the nuclear power plant operator shall have meteorological measurements from primary and backup systems. Each site ... shall have a primary meteorological measurements system. The primary system shall produce current and record historical local meteorological data ... The acceptance criteria for meteorological measurements are described in the proposed Revision 1 to U.S. NRC Regulatory Guide 1.23."

Regulatory Guide (RG) 1.23 provides information on meteorological instrument accuracy and meteorological instrument maintenance and servicing schedules. The meteorological instrument accuracies are listed in Table 3.3.B-1. The guidance from RG 1.23 section C.4 and C.5 on meteorological maintenance and servicing schedules is reflected in the "Surveillance Requirements" section of this Technical Requirement.

RG 1.97 describes a method for complying with the NRC's regulations to provide instrumentation to monitor, display and record plant variables and systems during and following an accident. Table 3 of the RG lists meteorological variables and the minimum ranges these variables should operate within. In addition, RG 1.97 stated that information gathered by these parameters "may be continually updated, stored in computer memory, and displayed on demand. Intermittent displays such as data loggers and scanning recorders may be used if no significant transient response information is likely to be lost by such a device."

The NRC issued a Confirmatory Order (Reference 9), requiring that IP3 perform certain additional actions to increase the margin of public health and safety. Included in the Order were a number of interim measures that pertained to the meteorological program and to Control Room instrumentation. Annex 1 to the Order laid out the meteorological acceptance criteria for emergency preparedness. The Annex essentially described the meteorological program as found in NUREG-0654 and added additional acceptance criteria from NUREG-75/087 section 2.3.3 (Reference 10).

NUREG-75/087, section 2.3.3 states that "Generally, the onsite meteorological programs must produce data which can be summarized to provide an adequate meteorological description of the site and its vicinity for the purpose of making atmospheric diffusion estimates for accidental and routine airborne releases of effluents. Guidance on an adequate program is given in Regulatory Guide 1.23."

IP3's response to the Confirmatory Order, letter IPN-80-77 (Reference 11), was to perform a detailed review of the meteorological program. The results of the review were that IP3 and IP2 complied with the Annex 1 meteorological criteria.

The NRC issued Generic Letter (GL) 82-33 (Reference 12) as a supplement to NUREG-0737. One purpose of the letter was to provide additional clarification regarding the application of RG 1.97 to emergency response facilities. In addition, the letter required licensees to evaluate how their post-accident monitoring instrumentation in the Control Room met the content of RG 1.97. Letter IPN-86-05 (Reference 13) outlined the status of IP3's compliance with RG 1.97 (e.g., the actual ranges that the meteorological variables should operate in and IP3's compliance with the requirements for data recording). The letter indicated that IP3 met the data recording requirements and also included the actual variable ranges used by the plant.

The meteorological variable ranges required by the RG are as follows:

Wind Direction	required: 0 to 360°
Wind Speed	required: 0 to 50 mph
Atmospheric Stability (for Temperature inputs)	*required: -5 to 10°C

*Note: The actual range (-4.44 to 11°C) was deemed acceptable.

NRC Inspection Report 85-17 (Reference 14) documented a conversation between the NRC and IP3. During the conversation, the NRC stated that "Unit 2 technical specifications require that meteorological monitoring instrumentation channels be operable at all times with indication of the tabulated parameters available in the control room." As a result, the Authority stated that a method would be instituted to verify the readouts in the control room as well as at the meteorological tower. NRC Inspection Report No. 87-23 (Reference 15) closed this unresolved item. In this Inspection Report, the NRC stated, "The licensee has installed a meteorological tower display in the control room demand metering panel. The panel displays wind speed, wind direction, Pasquill category and the time of the last data update. The inspector reviewed Nuclear Safety Evaluation 87-03-049 INST, Rev. 0 for the modification."

In 1991, the NRC issued a Safety Evaluation (Reference 16) which re-evaluated IP3's conformance to RG 1.97. The evaluation was performed as a follow-up to determine if and how we were conforming to the contents of GL 82-33. Contained in this evaluation was the NRC's conclusion that "... the licensee (IP-3) has provided an explicit commitment on conformance to RG 1.97."

NRC Inspection Report 92-17 (Reference 17) documented an inspection involving IP3's Radiological Environmental Monitoring Program. The purpose of the inspection, in part, was to review the "meteorological monitoring program to determine whether the instrumentation and equipment were operable, calibrated and maintained in accord with licensee's requirements ... Based on the review of the program and discussions with the licensee's representatives, the inspector determined that overall the licensee has implemented an effective Meteorological Monitoring Program."
In addition to the above NRC commitments, IP3 will comply with the requirements of other outside agencies. These agencies include the Federal Aviation Administration, Environmental Protection Agency, etc.

APPLICABLE SAFETY ANALYSES

The meteorological system is described in FSAR chapter 2.6 (Reference 18), Emergency Plan Procedure, IP-EP-510, "Meteorological, Radiological & Plant Data Acquisition System" (Reference 19), and Nuclear Safety Evaluation 87-03-049 INST (Reference 20). The meteorological measurements program consists of primary and backup systems. The primary system consists of a 122m instrumented tower which provides measurements for wind speed and wind direction at a minimum of two levels, one of which is representative of the 10 meter level. Data obtained from the 10m elevation of the meteorological tower is transmitted through a computer system to a meteorological LED display panel in the Control Room. IP3 maintains responsibility of the Meteorological Monitoring Program, except for the Meteorological Computer System, which is the responsibility of IP2. The meteorological tower display indicates wind speed, wind direction, Pasquill Category and the time of the last update. The output to the LED display panel is the result of a fifteen minute average of computated data from the Meteorological Computer System. The LEDs are updated every fifteen minutes. Also located in the control room is a two-pen variable trend recorder (strip chart) which is used to trend wind speed and wind direction. The data displayed represents a 15-minute average.

In the event of a power outage, a diesel generator has been installed to provide immediate power to the meteorological tower system.

In the event of a failure of the primary meteorological measurement system, a backup meteorological system is used. Changeover from the primary system to the backup system occurs automatically.

This system is independent of the primary system and consists of two instrumented meteorological towers, a primary backup tower and a standby backup tower. The backup meteorological tower records wind direction and speed measurements at the 10m level. The backup system provides information in the real-time mode. In the event of primary power failure, power is supplied for six days by a battery located adjacent to the tower. In the event of a failure of the backup meteorological measurement system, changeover from the backup system to the standby system is accomplished manually.

TRO

The Meteorological Monitoring Instrument Channel must be OPERABLE to allow adequate assessing, monitoring and recording of actual or potential offsite consequences of a radiological emergency.

An OPERABLE Meteorological Monitoring Instrument Channel constitutes the following:

1. Instrumentation on the primary meteorological tower for providing wind direction and speed measurement, representative of the 10m level per Table 3.3.B-1, shall be OPERABLE.

2. The Meteorological Computer System shall be OPERABLE.

3. Power supply is available. A power supply must be available from the normal power supply or the meteorological diesel generator.

APPLICABILITY

The Meteorological Monitoring Instrumentation Channel are required to be OPERABLE at all times.

ACTIONS

A.1

The meteorological monitoring instrumentation was installed to meet the requirements of NUREG-0737 Section III.A.2.2. The operation of this equipment is also described in the IPEC Emergency Plan, stating that the Meteorological Monitoring Instrumentation Channel meets the requirements for indication and remote access. The channel is required in order to comply with the requirements of RG 1.97 which requires “the instrumentation signal may be displayed on an individual instrument or it may be processed for display on demand. Signals from meteorology monitors should be recorded. For recording, it may be continuously updated, stored in computer memory and displayed on demand.”

A Meteorological Monitoring Instrument Channel would be required for determining the magnitude if and for continuously assessing the impact of the release of radioactive materials to the environment.

With the meteorological monitoring instrumentation channel inoperable, the backup meteorological monitoring instrumentation channel(s) must be DEMONSTRATED OPERABLE within 1 hour. DEMONSTRATION shall be achieved using Emergency Plan Procedure IP-EP-510, which describes the means to obtain meteorological data.

A.2

With the meteorological monitoring instrumentation channel inoperable, IP2 shall be notified within 1 hour. This notification is not required for IP3 control room display and/or recorder inoperability as this equipment does not directly impact IP2.

A.3

With the meteorological monitoring instrumentation channel inoperable, the channel must be restored to OPERABLE status within 7 days. The meteorological monitoring instrumentation channel(s) would be required in the event of a radiological emergency.

The allowable outage time (AOT) of 7 days, which is specified by this Action, was developed, in part, by taking into consideration former Westinghouse Standard Technical Specifications section 3.3.3.4 (Reference 21) which specified a 7 day time frame. In addition, consideration was given to IP2's Technical Requirements Manual section 3.3.A (Reference 22) which also specifies an AOT of 7 days.

B.1

This Action shall be taken if the Required Actions and associated Completion Times of Condition A have not been met. A Special Report shall be prepared and submitted to the On-Site Safety Review Committee outlining the cause of the malfunction and the plans for restoring the meteorological monitoring instrumentation channel(s) to OPERABLE status. This reporting is necessary to ensure oversight for restoring the OPERABILITY of the Meteorological Monitoring Instrument Channel and the collection of meteorological data at the plant site. This data is used for estimating potential radiation doses to the public resulting from routine or accidental releases of radioactive materials to the atmosphere.

A meteorological data collection program, as described in this technical requirement, is necessary to meet the requirements of 10 CFR 50.36a(a)(2), Appendix E to 10 CFR 50 and 10 CFR 51.

The ten-day period for preparing and submitting the Special Report was developed by taking into consideration IP2 Technical Requirements Manual section 3.3.A. This section requires that with one or more of the required meteorological monitoring channels inoperable for more than seven (7) days, prepare and submit to the On-Site Safety Review Committee within the next 10 days . . . a Corrective Action Report . . . outlining the cause of the malfunction(s) and the plans for restoring the channel(s) to operable status.

SURVEILLANCE REQUIREMENTS

TRS 3.3.B.1

The performance of daily CHANNEL CHECKs is required to meet a commitment to the NRC. IP3 committed to daily CHANNEL CHECKs via a telephone conversation with the NRC (on August 12, 1985). The NRC acknowledged this verbal commitment in Inspection Report 85-17. Inspection Report 85-17 documented the conversation in which the NRC stated that Indian Point Unit 2 Technical Specifications (now Technical Requirements Manual) contain the requirement that "meteorological monitoring instrumentation channels be operable at all times with indication of the tabulated parameters available in the control room. Furthermore, the IP2 Technical Specifications also require a daily CHANNEL CHECK of the meteorological monitoring instrumentation and states that 'each meteorological monitoring channel shall be demonstrated operable' (T.S. 4.19.A)." As a result, IP3 agreed that the IP3 control room instrumentation should be DEMONSTRATED OPERABLE by a daily CHANNEL CHECK.

TRS 3.3.B.2

Based on engineering judgement, IP3 has concluded that the 24 month calibration interval of the meteorological strip chart recorder is adequate.

TRS 3.3.B.3

Based on engineering judgement, IP3 has concluded that monthly testing is adequate to demonstrate the OPERABILITY of the meteorological diesel generator.

TRS 3.3.B4

Based on engineering judgement, IP3 has concluded that annual testing is adequate to DEMONSTRATE diesel generator automatic power transfer.

TRS 3.3.B.5

The performance of semiannual instrument CHANNEL CALIBRATION is required to satisfy RG 1.23 section C.5. Compliance with RG 1.23 section C.5 is required per the NRC's February 11, 1980 Confirmatory Order. Section C.5 stated that meteorological "instruments should be calibrated at least semiannually." In addition, this calibration frequency is consistent with TRS 3.3.A.1 and TRS 3.3.A.2 of IP2's Technical Requirements Manual.

TRS 3.3.B.6

The performance of semiannual instrument CHANNEL OPERATIONAL TEST ensures the signal is being delivered through the instrument channel. The frequency is chosen to be consistent with the frequency for instrument CHANNEL CALIBRATION.

REFERENCES

1. Title 10, Code of Federal Regulations, Part 50 Appendix A, Criterion 64, "Monitoring Radioactivity Releases."

2. Title 10, Code of Federal Regulations, Part 50 Appendix E, Section E, "Emergency Facilities and Equipment."

3. Title 10, Code of Federal Regulations, Part 50.47, "Emergency Plans."

4. NUREG-0737, "Clarification of TMI Action Plans Requirements."

5. NUREG-0654/FEMA, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," Appendix 2, "Meteorological Criteria for Emergency Preparedness at Operating Nuclear Power Plants."

6. Regulatory Guide 1.23, "Onsite Meteorological Programs."

7. NRC Regulatory Guide 1.97, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident."

8. NYPA Letter IPN-80-117, J. P. Bayne to D. G. Eisenhut, dated December 30, 1980, "Post TMI Requirements."

9. NRC Confirmatory Order, H. R. Denton to E. R. Weiss, dated February 11, 1980.

10. NUREG-75/087, "Standard Review Plan."

11. NYPA Letter IPN-80-77, G. M. Wilverding to S. A. Varga, dated August 11, 1980, "Confirmatory Order (Interim Actions) Six Month Responses."

12. Generic Letter 82-33, dated December 17, 1982, "Supplement 1 to NUREG-0737 - Requirements for Emergency Response Capability."

13. NYPA Letter IPN-86-05, J. C. Brons to S. A. Varga, dated January 7, 1986, "Regulatory Guide 1.97 Implementation Program."

14. NRC Inspection Report No. 50-286/85-17, Section 7.0, T. T. Martin to W. Josiger, dated August 22, 1985, "Implementation of the Meteorological Monitoring Program."

15. NRC Inspection Report No. 50-286/87-23, E. C. Wenzinger to W. Josiger, dated October 15, 1987.

16. NRC Safety Evaluation, J. D. Neighbors to R. E. Beedle, dated April 3, 1991, "Emergency Response Capability - Conformance to Regulatory Guide 1.97, Revision 3, for Indian Point 3."

17. NRC Inspection Report No. 50-286/92-17, J. H. Joyner to J. E. Russell, dated July 18, 1992.

18. Indian Point 3 FSAR, Section 2.6.5, "Onsite Meteorological Measurements Program."

19. Emergency Plan Procedure, IP-EP-510, "Meteorological, Radiological & Plant Data Acquisition System."

20. Nuclear Safety Evaluation NSE 87-03-049 INST, "Control Room Meteorological Display Upgrade."

21. NUREG-1431, Westinghouse Standard Technical Specifications section 3.3.3.4, "Meteorological Instrumentation."

22. Unit 2 Technical Requirements Manual Section 3.3.B “Meteorological Monitoring."

h_{lm} = height of lower measured temperature (ft)

Sheets 1 to 7 of Table 2.6-5 show data normalized to the sensor heights specified in Safety Guide No. 23.

The composite year reflects those periods in which data recovery was the greatest. The composite year consists of January through July of 1970, August 1971, September and October 1972 and November and December of 1970.

Incorporation of the aforementioned characteristics unique to the Indian Point valley site into diffusion calculations, insure that off-site doses following a loss-of-coolant accident are within the limitations outlined in 10 CFR 100.

2.6.5 Onsite Meteorological Measurements Program

The meteorological measurement program consists of three instrumented towers, redundant power and ventilation systems, redundant communication systems, and a mini-computer processor/recorder. The meteorological measurement program complies with the acceptance criteria stated in Section 2.3.3. and in Section 17.2 of NUREG-75/087 Revision 1 (superseded by NUREG-0800, Rev. 2, July 1981) with the former section dealing with meteorological sensors and recorders, and the latter dealing with the Quality Assurance Program. The meteorological measurements program consists of primary and backup systems. The accuracy of the meteorological sensor and recording systems meet the system specifications given in the Section C.4 of proposed Revision 1 to Regulatory Guide 1.23.

Primary System

A 122-meter, instrumented tower is located on the site and provides:

1. Wind direction and speed measurement at a minimum of two levels, one of which is representative of the 10-meter level:

2. Standard deviations of wind direction fluctuations as calculated at all measured levels;

3. Vertical temperature difference for two layers (122-10 meters and 60-10 meters);

4. Ambient temperature measurements at the 10-meter level;

5. Precipitation measurements near ground level;

6. Pasquill stability classes as calculated from temperature difference.

To assure acceptable date recovery, the meteorological measurements system and associated controlled environmental housing is connected to a power supply system which has a redundant power source. A diesel generator has been installed to provide immediate power to the meteorological tower system in the event of a power outage. The generator becomes fully powered within 15 seconds after an automatic transfer switch is tripped. Various support systems include an uninterruptible power supply, dedicated ventilation systems, halon fire protection, and dedicated communications.

The meteorological data is transmitted simultaneously to two data loggers located at the Primary Tower site. One data logger transmits 15-minute average meteorological data to a computer to determine joint frequency distributions, and the second data logger transmits 15-

minute average meteorological data to a computer located in the Buchanan Service Center, which provides the capability for accessing the meteorological data remotely.

Meteorological data can be transmitted simultaneously to the IP3 / IP2 emergency response organization and the NRC in a format designated by NUREG-0654/FEMA-REP-1.

Fifteen minute averages of meteorological parameters covering the 12-hour period previous to a recall command is available upon interrogation of the system.

Backup Systems

In the event of a failure of the primary meteorological measurement system, a backup meteorological system is used at the Indian Point site. This system is independent of the primary system and consists of an instrumented meteorological tower (a backup tower located approximately 2700 feet north of the primary tower). The associated data acquisition system for the backup tower is located in the Emergency Operations Facility. The backup system provides measurements of the 10-meter level of wind direction and speed, and an estimate of atmospheric stability (Pasquill category using sigma theta which is a standard deviation of wind fluctuation). The backup system provides information in the real-time mode. Changeover from the primary system to the backup system occurs automatically. In the event of a failure of the backup meteorological measurement system, a standby backup system exists at the 10-meter level of the Buchanan Service Center building roof. It also provides measurements of the 10-meter level of wind direction and speed, and an estimate of atmospheric stability (Pasquill category using sigma theta which is a standard deviation of wind fluctuations). The changeover from the backup system to the standby system also occurs automatically.

As in the case of the primary system, the backup meteorological measurements system and associated controlled environmental housing system is connected to a power system which is supplied form redundant power sources.

In addition to the backup meteorological measurements system, a backup communications line to the meteorological system is operational. During an interim period, the backup communications is provided via telephone lines routed through a telephone company central office separate from the primary circuits.

Atmospheric Dispersion Factors for Routine Releases

Extensive analyses and calculations were carried out in 1991[8] to reevaluate the atmospheric dispersion factors for routine releases at Indian Point. The primary objective was to ensure the applicability of the dispersion factors in the Offisite Dose Calculation Manual (ODCM) in view of potential changes in the meteorological conditions at the site.

In the analyses, consideration was given to an extended meteorological database and up-to-date analytical models. Briefly, use was made of the following:

1. 10 years' worth of hourly meteorological data collected on site for the period 1981 through 1990.

2. Mixed-mode releases, whereby released plumes can be totally elevated, totally at ground level, or in between,

3.3 INSTRUMENTATION

3.3.A Meteorological Monitoring Instrumentation

TRO 3.3.A The meteorological monitoring instrumentation in Table 3.3.A-1 shall be OPERABLE with indication of the tabulated parameters available in the control room.

APPLICABILITY: At all times.

ACTIONS

- NOTE -

Separate Condition entry is allowed for each channel.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more of the required meteorological monitoring channels inoperable.	A.1 Restore to OPERABLE status.	7 days
B. Required Action and associated Completion Time not met.	B.1 Prepare a corrective action report outlining the cause of the malfunction(s) and the plans for restoring the channel(s) to OPERABLE status.	10 days

SURVEILLANCE REQUIREMENTS

- NOTE -

TRS 3.3.A.1 and TRS 3.3.A.2 apply to each Meteorological Monitoring Instrumentation Function in Table 3.3.A-1.

SURVEILLANCE		FREQUENCY
TRS 3.3.A.1	Perform CHANNEL CHECK.	24 hours
TRS 3.3.A.2	Perform CHANNEL CALIBRATION.	184 days

Table 3.3.A-1 (page 1 of 1)
Meteorological Monitoring Instrumentation

INSTRUMENT	MINIMUM REQUIRED OPERABLE	INSTRUMENT ACCURACY
1. Wind Speed		
a. Nominal Elevation 10m[(a)]	1	± 0.5 mph[(b)]
b. Nominal Elevation 60m	1	± 0.5 mph[(b)]
c. Nominal Elevation 122m	1	± 0.5 mph[(b)]
2. Wind Direction		
a. Nominal Elevation 10m	1	± 5°
b. Nominal Elevation 60m	1	± 5°
c. Nominal Elevation 122m	1	± 5°
3. Air Temperature Differential (Delta T)		
a. Nominal Elevation 60 – 10m	1	± 0.1°C
b. Nominal Elevation 122 – 10m	1	± 0.1°C

(a) 10 m as measured by the primary or backup meteorological tower.

(b) Starting speed of anemometer shall be < 1 mph.

3.3 INSTRUMENTATION

B 3.3.A Meteorological Monitoring Instrumentation

BASES

Operability of the meteorological monitoring system instrumentation ensures that sufficient meteorological data at the site is available for estimating potential radiation doses to the public as a result of routine or accidental releases of radioactive materials to the atmosphere. This capability is required to evaluate the need for initiating protective measures to protect the health and safety of the public and is consistent with the recommendations of Regulatory Guide 1.23, Rev. 0.

This specification ensures the OPERABILITY of the meteorological monitoring instrumentation and the collection of meteorological data at the plant site. This data is used for estimating potential radiation doses to the public resulting from routine or accidental releases of radioactive materials to the atmosphere. A meteorological data collection program, as described in this specification, is necessary to meet the requirements of 10 CFR 50.36.a (a) (2), Appendix E to 10 CFR 50 and 10 CFR 51.

Meteorological data shall be summarized and reported as required for inclusion in the Radioactive Effluent Release Report pursuant to Technical Specification 5.6.3.

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February 16, 2010

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Re: ***Entergy Nuclear Operations, Inc.*** **(Indian Point Nuclear Generating Units 2 and 3), Docket Nos. 50-247-LR and 50-286-LR**

Dear Ms. Dean and Mr. Sipos:

This is a response, on behalf of Entergy Nuclear Operations, Inc. ("Entergy"), to your letter dated February 8, 2010 requesting additional information related to the SAMA analysis for IP2 and IP3. The enclosed compact disc ("CD") contains existing, potentially relevant documents that are responsive to the requests in your February 8 letter. Responses to your individual requests are discussed below.

1. (a) For the original SAMA analysis, Entergy did not run MACCS2 code analysis cases for each of the individual years from 2000 to 2004 and therefore, Entergy did not create the corresponding input files. Instead, Entergy only created an averaged input file for those years, which was previously provided to the State.

   (b) As part of the SAMA reanalysis performed in late 2009, Entergy created individual MACCS2 code input files for each of the individual years from 2000 to 2004. Entergy then performed MACCS2 code runs to determine which year should be selected for the evaluation. The MACCS2 input files for 2001, 2002, 2003, and 2004 are being provided in file "01 04 MACCS2_Input.zip." The meteorological input files are named METIxx.inp, where "xx" is the year. For example, METI01.inp is the MACCS2 meteorological input for 2001.

2. As explained above in response to Request 1(a), for the original SAMA analysis, Entergy did not run MACCS2 code analysis cases for each of the individual years from 2000 to 2004. Instead, Entergy ran only an analysis case for each unit using averaged input files.

Therefore, because Entergy's original SAMA analysis involved only a MACCS2 code run using this averaged input file for each unit, the only output files generated were based on averaged meteorological inputs. Nevertheless, the output files for 2001, 2002, 2003, and 2004 used in the SAMA reanalysis are being provided in file "01-04 MACCS2_Output.zip." The output files are unit-specific. The first number in the filename is the unit and the second number is the year. For example, conbi3NS-noE-Nmet02EC.OUT is the IP3 output for 2002.

3. In both the original SAMA analysis and the SAMA reanalysis, Entergy used "weather bin catalog sampling," which is the "Structured Monte Carlo Sampling" discussed in NUREG/CR-4691.

4. (a) The daily mixing height values (for morning and afternoon) for the period from 2000 to 2004 are contained in file "HAS000313929mixapp_op.txt." These values were used in the original SAMA analysis and in the SAMA reanalysis. This file was obtained from the National Climatic Data Center ("NCDC") and is publicly available from NCDC upon request.

   (b) The Microsoft Excel spreadsheets used to conform the IPEC site meteorological data to the MACCS2 input specifications are found on the enclosed CD in files "IP MACCS2 Met Data 2000.xlsm," "IP MACCS2 Met Data 2001.xlsm," "IP MACCS2 Met Data 2002.xlsm," "IP MACCS2 Met Data 2003.xlsm," and "IP MACCS2 Met Data 2004.xlsm." The first worksheet (with "Original Data" in the title) contains raw data with missing data filled-in as described in Revision 1 of the report, "Site Specific MACCS2 Input Data for Indian Point Energy Center." The second worksheet (with only the year or "Stability Class" in the title) contains the wind direction, wind speed, and precipitation data from the "Original Data" worksheet, and also calculates the stability class from the delta-temperature data. The third worksheet (with "Formatted" in the title) converts the units of the windspeed from "mph" to "tenths of a m/sec," rounds the results, and assigns a wind direction sector to each hour based on the degrees "from" in the raw data. It also converts the precipitation data from "inches" to "hundredths of inches" and combines all of the data into the ASCII format required by MACCS2. The final worksheet (with "Mixing Height" in the title) averages the mixing height data for the seasons as described in Revision 1 of the report, "Site Specific MACCS2 Input Data for Indian Point Energy Center."

5. The meteorological data collection system used to collect the data used in the SAMA analyses is the "primary system" described in ER Section 2.11.1, and also in IP3 FSAR Section 2.6.5, IP2 Technical Requirements Manual ("TRM") Section 3.3.A, and IP3 TRM Section 3.3.B. Copies of these FSAR and TRM sections are included on the enclosed CD. To the extent the State seeks more detailed information on the meteorological data collection system (*e.g.*, model of gauges), such information is not relevant to your admitted contentions.

6. Entergy did not use wind roses for the original SAMA analysis or for the SAMA reanalysis. Furthermore, Entergy's SAMA analyses did not use data from 2005 to 2009. To the extent the State may desire wind roses for years 2000 to 2004, Entergy understands that the State can use the meteorological data being provided to you to create wind roses.

7. The precipitation data for years 2001 to 2004 is found in the last column of the first worksheet (units of inches) of the spreadsheets provided in response to Request 4(b). These values were converted to hundredths of inches in the third worksheet of the spreadsheets provided in response to Request 4(b) for use in the MACCS2 input files. To the extent the State also requests the annual precipitation data from 2005 to 2009 used in the SAMA analyses, Entergy's SAMA analyses used data from 2000 to 2004, not data from 2005 to 2009.

Please call with any questions.

Sincerely,

Paul Bessette

Paul M. Bessette, Esq.
Kathryn M. Sutton, Esq.
Counsel for Entergy Nuclear Operations, Inc.

Enclosure
cc: Sherwin Turk

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1997	05	21	2	2150	5.1	4.3	1	2725		5.4
1997	05	22	1	2888		5.1	1	2982		5.6
1997	05	23	1	1246		3.0	1	3162		4.5
1997	05	24	1		.8	.8	1	2432		3.7
1997	05	25	2	329	2.6	1.6	2	269		1.2
1997	05	26	1	1679	7.7	4.4	1	1886		5.3
1997	05	27	1		3.6	3.6	1	1750		4.1
1997	05	28	1		2.0	2.0	1	2692		3.7
1997	05	29	1	52	.0	.0	1	781		4.2
1997	05	30	2	487	5.5	1.6	1	879		4.8
1997	05	31	1	628	3.9	.7	1	1535		4.4

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1997	06	01	1		2.4	2.4	1	2408		5.0
1997	06	02	2	1239	6.0	4.9	2	12	4.8	4.8
1997	06	03	4				4			
1997	06	04	1	334	1.7	3.5	1	1290		4.3
1997	06	05	1	167	3.1	2.2	1	2668		3.8
1997	06	06	1	596	3.6	.4	1	1053		3.0
1997	06	07	1	411	2.9	2.6	1	753		3.3
1997	06	08	1	187	1.5	2.7	1	826		4.2
1997	06	09	4				4			
1997	06	10	1		.9	.9	1	3831		2.9
1997	06	11	1		3.1	3.1	1	2348		4.0
1997	06	12	1		1.7	1.7	4			
1997	06	13	2	1348	4.4	1.2	2	1670		2.9
1997	06	14	1	1816	10.2	2.2	1	2203		4.2
1997	06	15	1	736	1.7	2.4	1	2324		2.3
1997	06	16	4				1	1306		4.4
1997	06	17	1	377	4.6	1.2	1	600		2.5
1997	06	18	1	832		2.3	2	435		3.6
1997	06	19	2	751	8.0	1.0	1	1655		4.0
1997	06	20	1	637	2.6	1.2	1	1973		3.2

1997	06	21	1	1	1.6	1.6	1	1	4.9	4.9
1997	06	22	1		2.9	2.9	1	1	4.1	4.1
1997	06	23	1	693	8.6	2.1	1	2390		4.1
1997	06	24	1	370	2.2	1.1	1	1586		3.1
1997	06	25	1		.7	.7	1	2892		4.7
1997	06	26	1	2182	8.5	1.9	1	2182		4.0
1997	06	27	1	1149	7.2	2.2	1	2439		4.8
1997	06	28	1	259	1.7	2.1	1	2049		3.7
1997	06	29	4				4			
1997	06	30	1	189	1.3	1.8	1	2282		3.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1997	07	01	4				4			
1997	07	02	4				4			
1997	07	03	4				4			
1997	07	04	4				4			
1997	07	05	4				4			
1997	07	06	4				4			
1997	07	07	4				4			
1997	07	08	4				4			
1997	07	09	4				4			
1997	07	10	4				4			
1997	07	11	4				4			
1997	07	12	4				4			
1997	07	13	4				4			
1997	07	14	4				4			
1997	07	15	4				4			
1997	07	16	4				4			
1997	07	17	4				4			
1997	07	18	4				4			
1997	07	19	4				4			
1997	07	20	4				4			
1997	07	21	4				4			
1997	07	22	4				4			
1997	07	23	4				4			
1997	07	24	4				4			
1997	07	25	4				4			
1997	07	26	4				4			
1997	07	27	4				4			
1997	07	28	4				4			
1997	07	29	4				4			
1997	07	30	4				4			
1997	07	31	4				4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
			MXG	WIND	WIND		MXG	WIND	WIND
YEAR	MO	DAY	T HGT	LYR	SFC	T	HGT	LYR	SFC
1997	08	01	4			4			
1997	08	02	4			4			
1997	08	03	4			4			
1997	08	04	4			4			
1997	08	05	4			4			
1997	08	06	4			4			
1997	08	07	4			4			
1997	08	08	4			4			
1997	08	09	4			4			
1997	08	10	4			4			
1997	08	11	4			4			
1997	08	12	4			4			
1997	08	13	4			4			
1997	08	14	4			4			
1997	08	15	4			4			
1997	08	16	4			4			
1997	08	17	4			4			
1997	08	18	4			4			
1997	08	19	4			4			
1997	08	20	4			4			
1997	08	21	4			4			
1997	08	22	4			4			
1997	08	23	4			4			
1997	08	24	4			4			
1997	08	25	4			4			
1997	08	26	4			4			
1997	08	27	4			4			
1997	08	28	4			4			
1997	08	29	4			4			
1997	08	30	4			4			
1997	08	31	4			4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1997	09	01	2	829	3.3	1.3	1	1806		1.6
1997	09	02	1	266	3.7	.0	1	1308		4.5
1997	09	03	1	1602	7.7	3.1	1	1570		4.9
1997	09	04	1	1899	10.1	1.8	1	2260		4.5
1997	09	05	1	411	2.1	2.2	1	1882		3.8
1997	09	06	1	185	1.6	1.7	1	1473		3.6
1997	09	07	1	222	1.4	1.0	1	1506		2.7
1997	09	08	1	1206	3.9	3.5	1	965		3.1
1997	09	09	1	848	1.8	2.9	1	848		3.1
1997	09	10	1	956	2.6	2.9	1	1014		4.6
1997	09	11	1	1048	10.7	5.0	2	1048		6.0
1997	09	12	1	919	7.8	1.6	1	1649		3.2
1997	09	13	1		1.0	1.0	1	90	3.1	3.1
1997	09	14	1	800	3.2	1.6	1	1753		3.0
1997	09	15	1	595	5.8	2.5	1	1667		3.1
1997	09	16	1	470	2.5	1.6	1	1736		3.4
1997	09	17	1	822	1.5	2.8	1	993		3.5
1997	09	18	1	1040	6.7	2.2	1	1437		3.2
1997	09	19	1	209	1.6	.0	1	1437		3.2
1997	09	20	1	558		3.4	2	1253		6.0
1997	09	21	1	1593	9.0	2.4	1	1796		4.8
1997	09	22	1	202	2.1	1.2	1	1413		3.8
1997	09	23	1	829	4.9	2.7	2	260		2.9
1997	09	24	1	1481	6.7	2.9	1	1925		2.6
1997	09	25	1	288	2.7	1.3	1	1403		3.6
1997	09	26	1	985	4.7	1.5	1	1733		4.3
1997	09	27	1	1026	3.4	3.6	1	1135		2.9
1997	09	28	1	534	4.3	2.2	2	984		5.4
1997	09	29	2	791	10.3	5.4	1	851		5.8
1997	09	30	1	1429	10.5	4.9	1	1429		6.9

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

MORNING			AFTERNOON		
MXG	WIND	WIND	MXG	WIND	WIND

YEAR	MO	DAY	T	HGT	LYR	SFC	T	HGT	LYR	SFC
1997	10	01	1	1649	11.3	4.3	1	1598		4.4
1997	10	02	1	582	5.2	2.2	1	1364		3.8
1997	10	03	1	573	3.0	.9	1	1161		3.7
1997	10	04	1	580	4.8	.9	1	1144		3.9
1997	10	05	1	574	6.9	1.5	1	1644		2.8
1997	10	06	1	127	1.3	1.3	1	1711		3.7
1997	10	07	1	175	2.9	1.5	1	1775		2.5
1997	10	08	1	537	1.3	1.0	1	377		1.3
1997	10	09	1	364	2.4	.0	1	678		3.7
1997	10	10	1	546	6.4	2.0	1	1470		5.0
1997	10	11	1	900	7.6	.4	1	1134		3.4
1997	10	12	1	284	.3	.7	1	1279		2.4
1997	10	13	1	278	.4	.9	1	639		2.7
1997	10	14	1	450	4.5	1.0	1	964		4.3
1997	10	15	2	1040	5.5	2.9	2	411		4.2
1997	10	16	2	1521	6.8	3.7	2	779		3.6
1997	10	17	1	965	5.1	3.0	1	1538		3.0
1997	10	18	1	1025	2.4	3.8	1	1203		2.7
1997	10	19	1		1.7	1.7	3			3.8
1997	10	20	1	612	2.9	3.3	1	1597		3.8
1997	10	21	1	1576	8.3	3.2	1	1618		3.5
1997	10	22	1	1596	12.6	3.3	1	1914		5.4
1997	10	23	1	1148	5.6	1.8	1	2428		3.7
1997	10	24	1	1929		2.8	1	2575		2.9
1997	10	25	2	1279	1.6	2.2	2	777		5.7
1997	10	26	1	952	4.6	2.0	2	977		3.5
1997	10	27	2	1469	9.2	5.1	1	1596		4.2
1997	10	28	1	2353	16.0	5.3	1	2015		9.2
1997	10	29	1	329		1.7	1	1434		3.7
1997	10	30	1	140	1.4	1.4	1	1990		3.0
1997	10	31	1	251	3.9	.3	1	1169		4.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1997	11	01	2	1079	9.1	3.7	2	113	7.9	7.9
1997	11	02	4				4			
1997	11	03	4				4			
1997	11	04	1	365	2.7	.7	1	923		4.0
1997	11	05	1	998	8.2	3.2	1	1734		2.5
1997	11	06	1	219	1.0	1.1	1	1267		5.0
1997	11	07	2	1253	2.8	3.2	2	1253		7.8
1997	11	08	2	979	10.7	5.9	2	101	5.7	5.7
1997	11	09	4				4			

1997	11	10	4				4			
1997	11	11	1	944	1.9	3.2	1	1158		4.9
1997	11	12	1	654	8.3	.6	1	1658		5.4
1997	11	13	1	1395	7.9	1.2	1	1716		2.6
1997	11	14	2	1230	4.3	4.3	3			4.6
1997	11	15	4				4			
1997	11	16	4				4			
1997	11	17	1	954	11.3	4.7	1	1502		7.0
1997	11	18	1	830	3.1	2.7	1	1749		2.7
1997	11	19	1	141	.0	.0	1	1354		3.5
1997	11	20	1	966	8.8	1.3	1	1917		3.7
1997	11	21	1	257	5.3	.0	2	807		4.0
1997	11	22	2	1500	6.9	3.2	2	629		4.1
1997	11	23	2	1077	5.7	2.7	1	964		2.1
1997	11	24	1	2372	13.6	3.6	1	1651		6.8
1997	11	25	1	930	9.0	3.3	1	1104		3.8
1997	11	26	1	965	9.7	4.3	2	1265		4.0
1997	11	27	4				4			
1997	11	28	1	620	4.4	2.0	2	505		3.4
1997	11	29	1	1416	11.1	1.8	1	1416		2.8
1997	11	30	1	324	1.8	.3	2	444		.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1997	12	01	4				4			
1997	12	02	4				4			
1997	12	03	1	540	7.8	3.2	1	1190		3.2
1997	12	04	2	634	2.3	2.3	1	651		2.9
1997	12	05	4				4			
1997	12	06	4				4			
1997	12	07	4				4			
1997	12	08	1	1313	10.5	5.6	1	1206		4.9
1997	12	09	1	618	2.2	.4	1	762		2.7
1997	12	10	1	980	1.7	.0	2	595		1.7
1997	12	11	4				4			
1997	12	12	2	612	5.4	.7	2	417		2.2
1997	12	13	4				4			
1997	12	14	4				4			
1997	12	15	1	808	10.5	4.0	1	1059		4.9
1997	12	16	1	289	1.9	2.1	1	788		4.4
1997	12	17	1		.3	.3	1	210		3.8
1997	12	18	1	325	4.0	1.1	1	1264		2.0
1997	12	19	1	229	4.8	2.8	1	1047		4.9
1997	12	20	1	1283	11.4	2.1	1	1327		4.3

1997	12	21	1	1373	9.1	3.4	1	1373	4.0
1997	12	22	1	607	3.1	3.2	2	637	3.1
1997	12	23	2	825	9.0	3.5	1	728	2.9
1997	12	24	1	1411	7.5	.3	1	1411	3.0
1997	12	25	2	915	3.7	5.2	2	966	3.3
1997	12	26	4				4		
1997	12	27	4				4		
1997	12	28	4				4		
1997	12	29	1	665	11.7	1.3	2	802	4.3
1997	12	30	4				4		
1997	12	31	4				4		

MIXING HEIGHT IN METERS

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	01	01	1	1236	9.0	5.6	1	1690		5.2
1998	01	02	1	287	3.3	3.6	1	1433		4.0
1998	01	03	1	622	5.7	3.5	1	1087		5.4
1998	01	04	1	984	8.9	2.8	1	984		2.9
1998	01	05	2	608	9.8	5.0	1	512		1.4
1998	01	06	2	116	.3	.3	2	449		2.6
1998	01	07	2	888	2.1	1.6	2	157		6.7
1998	01	08	2	735	6.6	3.4	1	888		3.7
1998	01	09	4				4			
1998	01	10	1	1297	7.4	2.2	1	1319		3.3
1998	01	11	1	1310	10.9	2.7	1	1494		3.5
1998	01	12	1	933	9.6	2.5	1	1176		1.2
1998	01	13	1	1106	7.5	2.2	2	1106		4.4
1998	01	14	1		6.2	6.2	1	1498		3.5
1998	01	15	1	972	5.9	2.9	2	1016		5.3
1998	01	16	2	937	9.1	5.6	1	621		7.0
1998	01	17	1	918	7.2	4.8	1	900		3.9
1998	01	18	2	1033	2.7	3.9	2	714		2.0
1998	01	19	2	1301	3.8	2.3	1	776		2.2
1998	01	20	1	1303	3.1	1.6	1	1303		4.4
1998	01	21	1	1398	9.0	3.9	1	1398		4.0
1998	01	22	1	1025	5.9	3.3	1	1025		3.5
1998	01	23	2	1072	12.4	5.1	2	930		7.6
1998	01	24	2	848	3.5	4.5	1	803		6.3
1998	01	25	4				4			
1998	01	26	1	1749	14.1	4.8	1	1784		2.2
1998	01	27	1	881	5.0	3.7	1	1106		5.2
1998	01	28	2	960	4.8	5.2	1	898		7.5
1998	01	29	4				4			
1998	01	30	4				4			

1998	01	31	4				4				

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	02	01	1	769	4.0	2.4	1	979		1.8
1998	02	02	1	308	3.7	.6	1	548		4.2
1998	02	03	1	794	7.4	1.4	1	796		3.5
1998	02	04	1	1265	4.3	4.8	2	1175		6.5
1998	02	05	2	1002	10.2	6.3	2	422		5.9
1998	02	06	1	639	7.0	3.4	1	737		4.0
1998	02	07	1	287	5.1	3.0	1	825		4.4
1998	02	08	1	584	3.8	3.9	1	997		4.6
1998	02	09	1	355	1.4	2.5	1	1130		2.7
1998	02	10	1	278	.9	.4	1	670		2.9
1998	02	11	1		.0	.0	2	196		3.1
1998	02	12	2	1237	9.0	5.1	1	1023		5.6
1998	02	13	1	1528	14.3	4.9	1	1286		6.8
1998	02	14	1	1082	8.5	4.9	1	1174		5.7
1998	02	15	1	784	1.7	3.4	1	1214		2.6
1998	02	16	1	500	2.0	.0	1	847		3.7
1998	02	17	1	579	4.5	3.0	2	520		8.6
1998	02	18	2	1282	10.6	7.6	2	1151		4.1
1998	02	19	4				4			
1998	02	20	4				4			
1998	02	21	4				4			
1998	02	22	1	943	4.4	3.0	1	1417		3.7
1998	02	23	1	711	3.8	3.7	2	625		7.2
1998	02	24	2	1094	6.1	7.6	3			5.3
1998	02	25	4				4			
1998	02	26	1	1129	15.7	3.1	1	1537		5.0
1998	02	27	1	1022	6.7	3.3	1	1305		3.5
1998	02	28	4				4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	03	01	2	215	1.1	4.3	1	215		2.0
1998	03	02	4				4			
1998	03	03	4				4			
1998	03	04	4				4			
1998	03	05	1	1080	6.8	2.7	2	1467		4.6
1998	03	06	1	1689	4.4	2.4	1	1929		3.3
1998	03	07	1	681	8.7	1.6	1	894		3.7
1998	03	08	1	1119	4.5	4.0	2	631		7.0
1998	03	09	2	1126	14.6	6.5	2	1212		5.9
1998	03	10	4				4			
1998	03	11	1	1598	15.1	5.9	1	1478		6.7
1998	03	12	1	1935	11.2	3.8	1	2474		6.6
1998	03	13	1	1491	8.7	2.9	1	2275		5.7
1998	03	14	1	1011	14.7	4.4	2	1464		4.2
1998	03	15	1	1980	12.0	5.7	1	1980		7.2
1998	03	16	1	1569	5.1	4.6	1	2225		4.3
1998	03	17	1	799	1.3	1.1	1	1505		4.9
1998	03	18	2	995	3.5	1.1	2	453		4.0
1998	03	19	2	775	4.1	3.0	2	565		3.0
1998	03	20	2	589	3.8	2.1	1	1670		4.4
1998	03	21	2	395	4.2	6.5	3			6.2
1998	03	22	4				4			
1998	03	23	4				4			
1998	03	24	1	1543	6.0	.7	1	2162		3.5
1998	03	25	1	648	3.1	.7	1	2095		4.4
1998	03	26	2	473	8.1	2.5	1	1106		4.9
1998	03	27	1		1.7	1.7	1	2369		6.4
1998	03	28	1	150	4.2	4.2	1	700		6.2
1998	03	29	4				4			
1998	03	30	1		.0	.0	1	2033		3.9
1998	03	31	4				4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC

1998	04	01	4				4				
1998	04	02	4				4				
1998	04	03	1	910	11.8	2.4	1	2294		5.8
1998	04	04	4				4				
1998	04	05	4				4				
1998	04	06	4				4				
1998	04	07	1	1040	7.7	3.0	1	2411		4.2
1998	04	08	1	269	.8	.5	1	594		5.6
1998	04	09	1	1145	4.3	3.0	2	422		6.0
1998	04	10	4				4			
1998	04	11	1	271	3.2	1.8	1	1813		4.2
1998	04	12	1	172	2.0	1.7	1	1113		5.0
1998	04	13	1	209	2.2	1.2	1	2714		4.0
1998	04	14	1	260	1.8	.7	1	714		6.1
1998	04	15	4				4			
1998	04	16	1	246	3.6	.7	1	246		5.7
1998	04	17	4				4			
1998	04	18	1	1639	10.0	3.2	1	1942		5.4
1998	04	19	2	857	3.6	.9	2	167		4.8
1998	04	20	2	1447	5.3	3.4	1	1447		6.0
1998	04	21	1	262	3.9	.5	1	2622		4.0
1998	04	22	1	189	1.5	2.1	1	2311		5.2
1998	04	23	1	436	1.6	2.4	2	114	7.0	7.0
1998	04	24	4				4			
1998	04	25	4				4			
1998	04	26	1	1671	3.5	1.6	2	310		3.4
1998	04	27	1	1901	7.5	3.8	1	2291		5.9
1998	04	28	1	1759	7.7	3.0	1	2342		4.7
1998	04	29	1	217	1.8	1.8	1	1940		5.1
1998	04	30	1	1202	4.9	2.1	1	1471		4.3

MIXING HEIGHT IN METERS

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	05	01	1	392	.9	.0	2	344		3.7
1998	05	02	4				4			
1998	05	03	4				4			
1998	05	04	1	342	3.3	3.0	1	342		3.9
1998	05	05	1	422	4.5	4.0	4			
1998	05	06	1	608	3.7	1.3	1	608		2.6
1998	05	07	2	1013	2.1	1.7	1	1263		1.2
1998	05	08	4				4			
1998	05	09	4				4			
1998	05	10	2	837	8.2	5.1	2	58	4.4	4.4
1998	05	11	4				4			

1998	05	12	2	1078	11.5	5.0	1	1221		4.0
1998	05	13	1	177	2.3	3.0	1	934		2.8
1998	05	14	1		.9	.9	1	881		3.9
1998	05	15	1		.6	.6	1	2203		5.2
1998	05	16	1		1.0	1.0	1	470		3.4
1998	05	17	2		2.9	2.9	3			3.9
1998	05	18	1		.7	.7	1	2343		4.8
1998	05	19	1	252	2.6	1.8	1	2459		5.3
1998	05	20	4				4			
1998	05	21	4				4			
1998	05	22	1	1453	9.6	3.2	1	1862		4.8
1998	05	23	1	346	6.3	3.5	1	2117		4.4
1998	05	24	1	302	5.5	2.5	1	2799		3.5
1998	05	25	1	288	1.2	1.0	1	172		3.8
1998	05	26	4				4			
1998	05	27	1	1027	2.5	2.1	1	2064		4.0
1998	05	28	1	179	1.5	1.1	1	3102		3.4
1998	05	29	1	252	4.1	2.9	2	989		5.9
1998	05	30	1	1115	8.8	2.6	1	1959		4.5
1998	05	31	4				4			

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	06	01	4				4			
1998	06	02	4				4			
1998	06	03	4				4			
1998	06	04	4				4			
1998	06	05	4				4			
1998	06	06	4				4			
1998	06	07	1	540	4.3	2.9	1	1781		4.1
1998	06	08	1	1462	6.6	4.6	1	1926		4.3
1998	06	09	1	892	3.4	2.1	1	1321		4.4
1998	06	10	1	190	1.7	.0	1	849		3.6
1998	06	11	1	581	4.8	2.0	2	934		5.5
1998	06	12	2	814	13.0	4.1	2	555		6.5
1998	06	13	4				4			
1998	06	14	2	890	15.4	4.0	1	1077		3.5
1998	06	15	4				4			
1998	06	16	4				4			
1998	06	17	4				4			
1998	06	18	4				4			
1998	06	19	1	483	3.4	1.5	1	2016		3.0
1998	06	20	4				4			
1998	06	21	1	452	1.5	.6	1	779		3.9

1998	06	22	1	613	4.1	2.8	1	464		2.4
1998	06	23	1	394	2.7	2.2	1	394		3.1
1998	06	24	1	685	1.5	.7	1	1693		3.4
1998	06	25	1	236	1.2	.2	1	2329		3.2
1998	06	26	1	545	2.7	3.4	1	1663		4.5
1998	06	27	4				4			
1998	06	28	1	333	3.3	1.9	1	1640		3.4
1998	06	29	1	329	4.0	2.4	1	397		4.5
1998	06	30	4				4			

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	07	01	4				4			
1998	07	02	1	1216	5.0	1.9	1	2324		4.3
1998	07	03	1	638	1.7	1.4	1	2082		3.0
1998	07	04	1	262	.9	.3	1	2072		2.7
1998	07	05	2	1143	4.0	3.4	1	2327		5.3
1998	07	06	1	588	1.8	.5	1	2014		2.4
1998	07	07	1	386	4.3	.6	1	1088		3.9
1998	07	08	1	612	5.6	1.5	2	448		2.8
1998	07	09	1	734	2.9	.9	1	1618		2.2
1998	07	10	1	1183	2.6	1.3	1	1317		5.9
1998	07	11	1	897	10.8	2.9	1	2734		5.3
1998	07	12	1	776	4.7	2.5	1	2875		3.4
1998	07	13	1	234	.7	1.1	1	2139		3.4
1998	07	14	1	279	1.0	1.8	1	977		4.9
1998	07	15	1	304	1.7	.7	1	1094		3.9
1998	07	16	1	579	2.8	.4	1	1382		3.4
1998	07	17	1	248	2.4	.3	1	364		2.4
1998	07	18	1	1360	5.6	2.6	1	2444		3.6
1998	07	19	1	348	2.1	3.5	1	2292		4.9
1998	07	20	1		2.5	2.5	1	2187		4.5
1998	07	21	4				4			
1998	07	22	4				4			
1998	07	23	4				4			
1998	07	24	4				4			
1998	07	25	4				4			
1998	07	26	4				4			
1998	07	27	4				4			
1998	07	28	4				4			
1998	07	29	4				4			
1998	07	30	1	820	6.0	1.3	1	2195		4.2
1998	07	31	2	1370	3.9	2.3	1	1633		4.5

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	08	01	1	976	4.8	3.9	1	2164		4.2
1998	08	02	1	334	1.3	.5	1	2260		3.5
1998	08	03	1	423	2.6	2.5	1	2532		3.6
1998	08	04	1	317	1.4	2.2	1	2150		4.0
1998	08	05	1	224	1.3	.0	1	1609		4.0
1998	08	06	1	282	.9	.0	1	1980		3.9
1998	08	07	1	338	1.9	1.8	1	1255		4.7
1998	08	08	1	137	1.9	1.9	1	779		4.6
1998	08	09	1	763	3.4	1.0	1	1257		4.7
1998	08	10	1	443	5.6	.7	1	1331		4.9
1998	08	11	4				4			
1998	08	12	1	1129	4.2	3.2	1	2404		5.7
1998	08	13	1	997	1.4	3.0	1	1789		3.9
1998	08	14	1	784	3.2	.6	4			
1998	08	15	1	635	4.6	.7	1	1334		4.0
1998	08	16	4				1	1308		3.1
1998	08	17	1	710	4.4	1.6	2	289		2.8
1998	08	18	2	718	1.5	1.6	2	1495		3.2
1998	08	19	1	1581	8.3	4.5	1	1610		4.5
1998	08	20	1	460	2.0	3.0	1	1648		3.0
1998	08	21	1	256	1.2	2.2	1	1993		2.7
1998	08	22	1	496	.8	1.8	1	1866		3.4
1998	08	23	1	609	5.6	1.2	1	1456		4.3
1998	08	24	4				4			
1998	08	25	4				4			
1998	08	26	2	893	2.4	3.9	1	2159		4.5
1998	08	27	1		3.1	3.1	1	1390		2.8
1998	08	28	1	415	2.2	3.2	1	1375		7.0
1998	08	29	1		2.7	2.7	1	2013		4.1
1998	08	30	1	811	3.3	.9	1	2598		3.3
1998	08	31	1	1461	2.5	1.1	1	1968		3.1

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	09	01	1	339	2.1	1.1	1	2178		2.9
1998	09	02	1		.5	.5	2	804		4.2
1998	09	03	1	703	1.0	1.4	1	2195		2.7
1998	09	04	1	868	1.9	.4	1	2165		3.0
1998	09	05	1	1736	9.0	2.7	1	2593		5.6
1998	09	06	1	210	3.8	2.3	1	1737		6.1
1998	09	07	4				4			
1998	09	08	4				4			
1998	09	09	4				4			
1998	09	10	1	1051	6.9	2.7	1	2447		4.4
1998	09	11	1	257	2.3	1.0	1	1851		2.6
1998	09	12	1		1.7	1.7	1	1952		3.8
1998	09	13	1	1256	4.6	3.2	1	1567		2.3
1998	09	14	1	561	2.8	2.5	1	948		3.9
1998	09	15	1	481	6.2	2.4	1	514		3.6
1998	09	16	1	1505	4.4	1.9	1	1505		3.4
1998	09	17	1	924	6.0	3.1	1	1417		3.1
1998	09	18	1	767	2.0	4.1	1	1329		4.6
1998	09	19	1	520	4.1	.3	1	1028		3.1
1998	09	20	1	320	2.3	.6	1	1124		2.3
1998	09	21	1	353	3.9	.9	1	849		4.7
1998	09	22	4				4			
1998	09	23	1	2047	11.3	4.2	1	2280		4.7
1998	09	24	1	290	.7	.6	1	1841		2.7
1998	09	25	1	363	4.8	.5	1	777		3.0
1998	09	26	1	779	2.2	1.5	1	1428		2.8
1998	09	27	4				4			
1998	09	28	4				4			
1998	09	29	1	316	2.2	1.9	1	1764		3.3
1998	09	30	1	250	1.6	.4	1	985		4.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC

1998	10	01	4				4			
1998	10	02	1	1116	6.4	3.9	1	2543		6.6
1998	10	03	1	1540	9.7	3.0	2	1597		3.7
1998	10	04	2	1069	2.7	6.4	1	1160		2.4
1998	10	05	1	975	4.1	3.9	1	1350		4.2
1998	10	06	1	1028	3.7	3.6	1	1090		2.6
1998	10	07	1	449	5.0	1.0	1	681		4.4
1998	10	08	4				4			
1998	10	09	1	1183	6.4	4.4	2	557		4.3
1998	10	10	2	811	4.4	3.7	1	737		4.8
1998	10	11	1	1176	8.2	4.5	1	1291		6.0
1998	10	12	1	1110	5.4	4.0	1	1110		2.6
1998	10	13	2	814	2.7	2.8	2	465		3.6
1998	10	14	2	1115	9.2	4.4	1	1115		4.0
1998	10	15	1	1134	7.6	3.2	1	1673		4.6
1998	10	16	1	327	4.8	.4	1	1699		3.7
1998	10	17	1	392	.6	.6	1	926		3.2
1998	10	18	1	272	3.4	2.4	1	697		5.7
1998	10	19	1	1543	15.4	3.5	1	1426		5.3
1998	10	20	1	378	3.7	1.0	1	1787		6.0
1998	10	21	1	1976	8.7	3.9	1	2119		3.5
1998	10	22	1	2176	10.0	2.4	1	2263		5.5
1998	10	23	1	831	8.6	2.3	1	1596		3.9
1998	10	24	1	380	3.2	1.6	1	1344		4.0
1998	10	25	1	817	6.3	3.4	1	1553		2.9
1998	10	26	1	1037	3.3	4.2	1	886		4.4
1998	10	27	1	717	7.5	3.2	1	668		3.3
1998	10	28	1		.4	.4	2	1382		5.0
1998	10	29	4				4			
1998	10	30	1	1793	8.5	3.4	1	1906		5.3
1998	10	31	1	1217	9.9	3.6	1	1498		6.5

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	11	01	1	216	4.2	2.3	4			
1998	11	02	1	1396	11.6	3.2	1	1566		6.0
1998	11	03	1	1624	13.0	2.8	1	1874		5.4
1998	11	04	1	1658	8.3	.6	1	1732		5.1
1998	11	05	1	323	4.8	.0	1	1370		2.9
1998	11	06	1	1314	4.2	3.2	1	1380		4.3
1998	11	07	4				1	1865		5.5
1998	11	08	1	1327	6.1	1.3	1	1327		3.0
1998	11	09	1	1231	3.8	.0	1	1598		3.3
1998	11	10	1	512	3.4	3.5	2	758		4.9

1998	11	11	2	1546	21.1	7.9	1	1546		4.5
1998	11	12	1	1791	14.3	2.8	1	1816		4.9
1998	11	13	1		1.6	1.6	1	92	3.7	3.7
1998	11	14	1	855	2.9	1.7	1	1408		4.9
1998	11	15	4				4			
1998	11	16	4				4			
1998	11	17	2	951	4.0	3.3	2	657		3.7
1998	11	18	1	1260	3.9	4.3	1	1308		3.8
1998	11	19	1	454	3.5	1.7	1	897		4.1
1998	11	20	1	286	3.3	.3	2	286		1.9
1998	11	21	1	2051	9.2	3.2	1	1612		6.5
1998	11	22	1	767	6.4	3.6	1	1098		3.0
1998	11	23	1	518	6.2	3.3	1	1045		5.6
1998	11	24	1	1926	17.7	4.5	1	1615		6.1
1998	11	25	1	154	2.3	.7	1	1199		2.9
1998	11	26	2	1231	13.5	3.8	2	1102		5.8
1998	11	27	4				4			
1998	11	28	1	724	7.5	3.8	1	1799		4.2
1998	11	29	1	659	2.1	.0	1	952		3.2
1998	11	30	1	656	9.8	3.6	1	680		3.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1998	12	01	1	454	6.5	4.0	1	417		6.8
1998	12	02	1	564	5.8	3.7	1	1122		5.9
1998	12	03	1	753	3.8	2.4	1	1471		4.6
1998	12	04	4				4			
1998	12	05	1	626	3.2	.0	2	588		2.7
1998	12	06	1	526	5.0	1.0	1	800		1.9
1998	12	07	1	294	3.5	2.7	1	1188		5.9
1998	12	08	2	1137	5.0	2.7	2	890		3.3
1998	12	09	1	1345	9.3	3.8	1	1396		3.3
1998	12	10	1	595	3.7	.0	1	1259		4.1
1998	12	11	1	918	6.5	3.0	1	73	5.5	5.5
1998	12	12	1	256	2.4	.7	1	1038		6.1
1998	12	13	1	497	10.7	1.7	1	731		.9
1998	12	14	1	1432	9.8	5.3	1	1393		5.0
1998	12	15	1	232	2.0	1.0	1	867		4.9
1998	12	16	1	484	3.3	2.5	1	844		.0
1998	12	17	4				4			
1998	12	18	1	2399	12.7	4.2	1	2249		6.3
1998	12	19	1	379	7.5	1.6	1	1215		2.5
1998	12	20	1	1328	10.6	2.3	1	986		2.7
1998	12	21	1	1130	11.1	3.1	1	928		3.6

1998	12	22	2	952	12.4	5.7	1	457		6.4
1998	12	23	1	1496	7.3	2.6	1	1496		3.3
1998	12	24	2	1294	3.5	1.5	1	1222		4.4
1998	12	25	1	1407	6.7	3.2	1	1516		1.9
1998	12	26	1	387	4.9	.0	1	536		2.2
1998	12	27	1	258	5.0	1.5	1	659		3.0
1998	12	28	1	899	8.0	1.3	2	641		2.5
1998	12	29	2	1166	5.3	2.7	2	433		4.2
1998	12	30	4				4			
1998	12	31	1	1581	9.4	4.3	1	1543		3.4

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	01	01	1	2379	12.8	4.2	2	2291		6.5
1999	01	02	1	1052	9.3	3.2	1	1148		2.1
1999	01	03	2	884	1.7	8.0	2	1410		5.5
1999	01	04	4				4			
1999	01	05	1	1439	9.3	5.1	1	1929		3.5
1999	01	06	1	627	5.2	.3	1	1208		5.4
1999	01	07	2	2426	14.1	4.5	1	1727		6.0
1999	01	08	1	1304	3.8	1.6	2	1351		3.4
1999	01	09	2	1348	10.7	1.0	2	1255		3.1
1999	01	10	4				4			
1999	01	11	1	2314	9.8	3.5	1	1573		6.3
1999	01	12	4				4			
1999	01	13	1	1002	5.7	.4	2	1314		5.5
1999	01	14	2	952	6.0	5.6	2	817		5.8
1999	01	15	2	522	6.1	4.0	2	780		4.3
1999	01	16	1	1028	10.2	3.5	1	1140		3.8
1999	01	17	1	1207	9.9	.9	1	1593		3.3
1999	01	18	2	455	11.1	3.0	2	1103		4.8
1999	01	19	4				4			
1999	01	20	1	1534	7.2	3.1	1	1565		2.8
1999	01	21	1	335	1.6	.4	2	778		2.6
1999	01	22	2	771	2.6	3.3	1	475		4.8
1999	01	23	2	610	9.0	6.2	2	549		4.1
1999	01	24	4				4			
1999	01	25	1	1888	11.9	4.5	2	1313		3.1
1999	01	26	1	498	5.5	1.5	1	1337		4.2
1999	01	27	1	942	4.0	.5	1	995		2.9
1999	01	28	2	1118	6.1	2.9	2	652		2.7
1999	01	29	2	1703	9.0	.5	1	1192		4.7
1999	01	30	1	837	6.3	1.4	1	1611		3.3
1999	01	31	1	873	5.7	4.6	1	1156		3.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	02	01	1	402	1.4	1.8	1	549		3.2
1999	02	02	2	522	8.0	2.7	2	795		5.3
1999	02	03	4				4			
1999	02	04	1	120	.4	.4	2	363		2.9
1999	02	05	1	1393	13.1	5.0	1	1500		6.0
1999	02	06	1	602	1.8	2.0	1	602		2.9
1999	02	07	1	1290	8.9	1.7	2	1280		3.3
1999	02	08	2	1248	6.2	3.1	1	956		5.7
1999	02	09	1	291	2.7	1.5	1	514		5.3
1999	02	10	1	2291	15.1	5.1	1	2312		6.3
1999	02	11	1	717	3.2	1.1	1	982		4.2
1999	02	12	1	248	5.3	1.9	1	422		3.8
1999	02	13	2	1589	9.5	4.3	1	1589		6.5
1999	02	14	1	1893	7.6	3.9	1	1938		6.3
1999	02	15	1	492	5.8	2.6	1	1301		3.2
1999	02	16	1	209	.8	.0	1	1264		3.1
1999	02	17	1	655	8.9	3.4	1	740		3.9
1999	02	18	2	1185	1.8	2.3	2	333		4.3
1999	02	19	1	382	5.3	4.3	1	812		3.6
1999	02	20	1	1437	6.0	5.0	1	1437		5.7
1999	02	21	1	2113	5.0	3.7	1	1765		6.2
1999	02	22	1	1285	10.0	7.7	1	1359		8.7
1999	02	23	1	926	4.6	4.1	1	1213		2.8
1999	02	24	3		2.9	3.2	1		4.4	4.4
1999	02	25	4				4			
1999	02	26	2	1037	8.9	4.3	1	1482		6.0
1999	02	27	1	558	9.3	3.0	1		3.8	3.8
1999	02	28	1		2.9	2.9	2	448		6.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	03	01	4				4			
1999	03	02	4				4			
1999	03	03	1	472		1.4	2	1668		4.0
1999	03	04	4				4			
1999	03	05	1	1530	14.6	5.4	1	1623		4.2
1999	03	06	1	1187	5.7	4.2	2	1125		6.5
1999	03	07	2	407	3.0	7.8	1	407		7.3
1999	03	08	1	1195	10.8	5.1	1	1508		6.3
1999	03	09	1	975	4.4	5.1	1	1254		3.8
1999	03	10	1	1054		4.0	1	1178		5.9
1999	03	11	1	1129	10.2	4.3	1	1233		5.9
1999	03	12	1	1248	10.8	5.7	1	1248		6.9
1999	03	13	1	970	5.5	6.9	1	1384		6.4
1999	03	14	1	675	3.5	3.7	2	1258		3.7
1999	03	15	2	602	2.0	5.1	4			
1999	03	16	4				4			
1999	03	17	4				4			
1999	03	18	4				4			
1999	03	19	4				4			
1999	03	20	1	1479	12.4	3.2	1	2182		4.6
1999	03	21	1	401	2.2	3.1	2	982		6.4
1999	03	22	2	1343	13.0	7.9	3			6.4
1999	03	23	1	2192	10.4	3.4	1	2492		4.5
1999	03	24	1	426	6.1	1.1	2	1724		2.4
1999	03	25	1	1902	8.5	3.3	1	2204		4.0
1999	03	26	1	1441	7.6	1.9	1	1721		3.7
1999	03	27	1		2.0	2.0	1	1719		4.4
1999	03	28	2	287	4.0	5.0	1	568		5.8
1999	03	29	1	549	7.2	2.8	1	2326		6.0
1999	03	30	1	2644	18.4	4.7	1	3134		6.8
1999	03	31	1	133	2.5	2.5	1		5.4	5.4

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	04	01	1	222	2.6	2.6	1	320		2.7

1999	04	02	1	1105	3.2	2.3	1	697		5.0
1999	04	03	1	636	6.2	1.4	1	636		4.6
1999	04	04	1	1149	9.7	3.2	1	891		6.7
1999	04	05	1	913	5.7	4.6	1	1523		4.0
1999	04	06	1	291	.6	2.3	1	1122		5.5
1999	04	07	1	691	4.6	3.1	1	2337		4.7
1999	04	08	1		1.9	1.9	1	2597		6.1
1999	04	09	4				4			
1999	04	10	2	1674	11.7	6.7	1	2038		5.6
1999	04	11	1	1091	2.5	2.4	2	1059		3.9
1999	04	12	4				4			
1999	04	13	4				4			
1999	04	14	4				4			
1999	04	15	4				4			
1999	04	16	4				4			
1999	04	17	4				4			
1999	04	18	4				4			
1999	04	19	1	1056	5.1	2.8	1	2318		4.8
1999	04	20	1	491	1.5	.7	2	727		3.0
1999	04	21	1	1056	1.7	2.7	1	2203		4.7
1999	04	22	2	173	2.1	1.8	1	582		1.8
1999	04	23	1	1143	4.1	1.3	2	700		3.1
1999	04	24	1	1227	11.1	4.8	1	2296		5.6
1999	04	25	1	1031	5.9	3.0	1	2247		4.6
1999	04	26	1		3.5	3.5	1	2670		5.3
1999	04	27	1	1271	8.0	4.4	1	2283		5.8
1999	04	28	1		3.1	3.1	1	2453		3.4
1999	04	29	1		3.1	3.1	1	3403		6.4
1999	04	30	1	232	.8	2.3	1	1780		4.1

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	05	01	1	223	2.7	1.5	1	946		5.7
1999	05	02	1	105	3.3	3.3	1	565		6.0
1999	05	03	1		5.6	5.6	3			5.3
1999	05	04	2	637	4.3	4.0	1	845		3.5
1999	05	05	1	587	1.3	.9	1	1259		3.4
1999	05	06	1	329	2.9	1.8	1	445		4.1
1999	05	07	4				4			
1999	05	08	2		4.2	4.2	3			4.2
1999	05	09	1	369	1.6	1.2	1	2262		4.4
1999	05	10	1	1638	9.7	2.9	1	1797		3.7
1999	05	11	1		1.7	1.7	1	1888		3.5
1999	05	12	1	400	2.3	1.6	1	1976		3.6

1999	05	13	1	1548	8.1	3.4	1	1921	3.0
1999	05	14	1	488	1.4	3.1	1	1421	4.9
1999	05	15	1	10	.7	.7	1	1116	4.5
1999	05	16	1	217	2.6	1.3	1	991	3.8
1999	05	17	1	309	5.3	2.0	1	1359	3.8
1999	05	18	1	340	5.3	1.6	2	605	4.5
1999	05	19	2	769	7.3	2.6	2	263	3.0
1999	05	20	2	1206	9.4	5.5	1	2080	6.5
1999	05	21	1	475	4.2	3.2	1	1456	3.9
1999	05	22	1	247	.8	.5	1	1546	3.6
1999	05	23	2	253	4.1	4.2	2	160	4.1
1999	05	24	4				4		
1999	05	25	4				4		
1999	05	26	4				4		
1999	05	27	1	1572	8.7	3.0	1	2529	5.0
1999	05	28	1	834	3.1	2.0	1	2342	2.9
1999	05	29	4				4		
1999	05	30	1	172	1.8	2.9	1	2256	3.1
1999	05	31	1	154	1.4	1.8	1	2270	5.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
				MXG	WIND	WIND		MXG	WIND	WIND
YEAR	MO	DAY	T	HGT	LYR	SFC	T	HGT	LYR	SFC
1999	06	01	4				4			
1999	06	02	4				4			
1999	06	03	4				4			
1999	06	04	4				4			
1999	06	05	4				4			
1999	06	06	4				4			
1999	06	07	4				4			
1999	06	08	4				4			
1999	06	09	4				4			
1999	06	10	4				4			
1999	06	11	4				4			
1999	06	12	4				4			
1999	06	13	4				4			
1999	06	14	4				4			
1999	06	15	4				4			
1999	06	16	4				4			
1999	06	17	4				4			
1999	06	18	4				4			
1999	06	19	4				4			
1999	06	20	4				4			
1999	06	21	4				4			
1999	06	22	4				4			

1999	06	23	4		4
1999	06	24	4		4
1999	06	25	4		4
1999	06	26	4		4
1999	06	27	4		4
1999	06	28	4		4
1999	06	29	4		4
1999	06	30	4		4

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	07	01	2	519	1.4	1.7	1	519		2.9
1999	07	02	1	520	7.6	4.2	1	1194		4.6
1999	07	03	1	1091	2.5	2.3	1	2241		3.3
1999	07	04	1	695	5.5	2.8	1	2235		3.3
1999	07	05	1	898	7.9	2.4	1	1545		4.6
1999	07	06	4				4			
1999	07	07	1	1832	10.7	4.6	1	2292		4.5
1999	07	08	1	2185	17.2	2.6	1	2613		5.5
1999	07	09	1	1894	6.3	.4	1	2330		4.3
1999	07	10	4				4			
1999	07	11	1	948	6.3	2.8	1	2526		2.3
1999	07	12	1	247	1.4	2.7	1	1965		4.2
1999	07	13	2	379	1.6	3.1	1	1038		4.2
1999	07	14	1	338	1.9	.8	1	846		2.0
1999	07	15	1	177	.9	.7	1	2725		3.2
1999	07	16	1	661	2.6	2.7	1	2545		4.6
1999	07	17	1	816	4.4	2.4	1	2167		3.7
1999	07	18	1	557	2.2	2.1	1	2612		4.1
1999	07	19	1	419	1.6	1.7	1	2692		3.7
1999	07	20	1	1415	4.5	4.3	1	2600		2.9
1999	07	21	1	1246	2.4	2.9	1	1759		3.9
1999	07	22	1	694	3.2	1.8	1	694		2.6
1999	07	23	1	682	4.6	2.0	1	2292		4.3
1999	07	24	4				4			
1999	07	25	4				4			
1999	07	26	4				4			
1999	07	27	4				4			
1999	07	28	1	712	9.0	2.3	1	2413		5.6
1999	07	29	4				4			
1999	07	30	4				4			
1999	07	31	4				4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	08	01	4				4			
1999	08	02	1	2114	3.9	3.9	1	2366		3.6
1999	08	03	1	1671	3.8	3.4	1	2655		3.3
1999	08	04	1	419	2.9	.8	1	2401		4.8
1999	08	05	4				4			
1999	08	06	1	1167	2.4	2.1	1	2696		4.9
1999	08	07	1	1928	6.0	2.7	1	2673		4.1
1999	08	08	2	2047	5.0	1.7	2	2172		5.4
1999	08	09	4				4			
1999	08	10	1	546	2.6	.4	1	2384		3.6
1999	08	11	1	1019	3.9	2.8	2	1992		4.4
1999	08	12	1	1282	5.5	2.5	1	2186		2.6
1999	08	13	1	674	4.5	1.9	1	941		5.8
1999	08	14	4				4			
1999	08	15	2	834	4.5	2.8	1	975		2.9
1999	08	16	1	831	2.8	.5	1	1786		2.6
1999	08	17	1	276	2.8	2.5	1	1547		5.1
1999	08	18	4				4			
1999	08	19	1	1091	1.9	3.1	1	2205		3.3
1999	08	20	1	735	5.2	2.7	2	735		5.0
1999	08	21	2	660	1.9	3.8	2	10	3.8	3.8
1999	08	22	1	1201	2.2	2.6	1	1408		4.2
1999	08	23	1	430	2.7	1.6	1	2463		3.0
1999	08	24	1	228	.9	.3	1	1804		2.6
1999	08	25	1	296	2.6	.8	1	961		4.0
1999	08	26	2	1147	3.8	4.6	1	383		4.2
1999	08	27	1	665	2.8	2.6	1	787		2.4
1999	08	28	1	844	5.0	2.0	1	1739		3.8
1999	08	29	1	1126	7.9	2.5	1	1787		5.0
1999	08	30	1	1254	6.1	4.8	1	1607		5.3
1999	08	31	1		4.2	4.2	1	1438		4.6

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	09	01	1		3.0	3.0	1	1075		3.6
1999	09	02	1	212	1.8	2.4	1	607		3.7
1999	09	03	1	21	.4	.4	1	763		3.2
1999	09	04	1	256	.5	1.1	1	493		4.3
1999	09	05	1	1083	5.3	3.7	2	469		5.2
1999	09	06	2	1070	6.3	4.3	1	955		3.6
1999	09	07	1	537	4.9	4.0	4			
1999	09	08	4				4			
1999	09	09	1	804	1.9	1.7	1	1031		4.2
1999	09	10	4				4			
1999	09	11	1	1274	12.1	2.2	1	2360		3.8
1999	09	12	1	325	1.1	1.1	1	1649		1.3
1999	09	13	1	435	5.5	.7	1	1170		5.2
1999	09	14	1		.7	.7	1	1062		3.7
1999	09	15	1	1018	1.8	.5	2	695		2.5
1999	09	16	2	1105	8.0	5.0	2	1272		6.8
1999	09	17	4				4			
1999	09	18	1	632	5.8	2.2	1	1823		3.7
1999	09	19	1	323	.2	1.2	1	1627		3.6
1999	09	20	1	472	6.6	2.2	1	944		4.2
1999	09	21	2	1274	4.2	1.4	2	551		5.0
1999	09	22	2	1070	5.1	5.4	1	777		4.5
1999	09	23	4				4			
1999	09	24	1	252	4.0	1.4	1	1167		4.2
1999	09	25	1	926	2.0	.7	1	2879		4.0
1999	09	26	1	631	1.0	1.9	1	1308		2.5
1999	09	27	1	420	3.4	.4	1	934		3.1
1999	09	28	1	351	4.3	.9	1	909		4.5
1999	09	29	4				4			
1999	09	30	2		5.9	5.9	3			5.4

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	10	01	1	230	3.3	1.8	1	2173		4.9

1999	10	02	1	344	2.5	.4		1	1797	3.8
1999	10	03	1	1212	5.2	2.3		1	1307	4.4
1999	10	04	2	1162	9.6	3.5		2	1162	3.6
1999	10	05	2	1024	3.7	3.8		1	925	3.4
1999	10	06	1	342	5.0	2.2		1	1978	5.1
1999	10	07	1	1494	9.7	2.5		1	1789	4.6
1999	10	08	1	367	5.5	.0		1	1121	4.6
1999	10	09	2	1000	12.3			1	1029	3.1
1999	10	10	2	763	5.5	.7		2	530	4.3
1999	10	11	1	1637	12.0	3.7		1	1432	3.1
1999	10	12	1		2.0	2.0		1	1824	2.6
1999	10	13	1	424	9.4	1.1		1	992	4.7
1999	10	14	4					4		
1999	10	15	1	429	1.7	1.8		1	1135	7.6
1999	10	16	1	352	5.2	1.0		1	918	3.7
1999	10	17	1	295	3.6	1.1		2	788	3.0
1999	10	18	2		7.1	7.1		3		9.6
1999	10	19	1		2.6	2.6		1	1556	2.2
1999	10	20	2	1356	4.7	3.0		2	706	2.6
1999	10	21	1	2249	8.2	3.1		1	2302	2.7
1999	10	22	1		.6	.6		1	1750	5.9
1999	10	23	4					4		
1999	10	24	4					4		
1999	10	25	1	1540	12.0	4.1		1	1804	4.1
1999	10	26	1	426	7.2	1.2		1	1121	3.9
1999	10	27	1	787	6.0	3.4		1	1875	6.5
1999	10	28	1	715	2.8	2.6		1	1074	1.9
1999	10	29	1	268	1.0	1.1		1	1410	2.1
1999	10	30	1	323	4.6	2.1		1	585	3.1
1999	10	31	1	403	6.1	1.7		1	901	3.1

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	11	01	1	429	1.1	1.7	1	1487		2.7
1999	11	02	1	457	7.0	1.5	2	681		7.2
1999	11	03	4				4			
1999	11	04	1	215	5.4	4.7	1	553		5.3
1999	11	05	1	209	3.9	2.1	1	1637		4.1
1999	11	06	1	1570	17.4	2.1	1	1667		8.0
1999	11	07	1	2597	15.5	5.8	1	2153		8.5
1999	11	08	1	1152	9.9	1.4	1	1597		4.6
1999	11	09	1	1070	6.0	.2	1	2077		3.7
1999	11	10	4				4			
1999	11	11	1	1551	9.1	7.5	1	1499		4.6

1999	11	12	1	803	5.4	2.3	1	1020		3.8
1999	11	13	1	1735	7.6	3.4	1	1756		3.8
1999	11	14	1	985	2.6	1.4	1	1319		2.6
1999	11	15	4				4			
1999	11	16	4				4			
1999	11	17	1	1293	17.4	7.5	1	1431		6.0
1999	11	18	1	234	2.9	1.2	1	1258		3.7
1999	11	19	1	451	5.3	.8	1	561		4.1
1999	11	20	1	359	10.2	.7	1	1298		4.1
1999	11	21	4				4			
1999	11	22	1	327	4.9	.0	1	278		1.4
1999	11	23	1	402	3.5	.5	1	402		1.8
1999	11	24	2	751	9.2	.7	1	751		3.2
1999	11	25	2	1059	4.7	3.2	2	777		2.5
1999	11	26	2	664	5.9	4.0	2	847		3.3
1999	11	27	4				4			
1999	11	28	1	2437	12.1	4.6	1	2378		6.4
1999	11	29	1	1502	5.7	3.9	1	1502		6.0
1999	11	30	1	2035	6.3	3.3	1	1655		6.6

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
1999	12	01	3		6.6	8.0	1		8.1	8.1
1999	12	02	1	764	6.5	5.8	1	1135		4.4
1999	12	03	1	217	1.1	1.3	1	1015		1.3
1999	12	04	1	248	1.4	1.5	1	526		4.7
1999	12	05	1	99	1.1	1.1	1	965		4.0
1999	12	06	2	231	4.8	2.0	2	272		1.3
1999	12	07	2	1077	10.5	6.7	1	925		8.2
1999	12	08	1	771	6.0	3.6	1	883		2.6
1999	12	09	1	495	2.8	3.5	1	822		1.2
1999	12	10	1	289	3.0	.0	2	603		3.1
1999	12	11	4				4			
1999	12	12	1	813	12.7	2.4	1	895		5.2
1999	12	13	1	469	3.6	.4	2	726		.9
1999	12	14	2	1124	8.1	4.5	2	665		7.0
1999	12	15	2	1194	6.6	4.2	2	817		4.4
1999	12	16	2	1121	13.8	2.2	1	809		5.4
1999	12	17	1	1886	9.6	2.9	1	1937		4.3
1999	12	18	1	1676	8.6	2.2	1	1565		2.2
1999	12	19	1	1056	1.3	2.9	1	1140		3.0
1999	12	20	2	714	7.9	3.4	2	872		5.5
1999	12	21	2	1370	12.7	3.3	1	833		5.5
1999	12	22	1	1732	11.4	2.5	1	1678		4.4

1999	12	23	1	1564	8.1	1.5	1	1872		4.9
1999	12	24	1	2414	8.5	4.3	1	2249		3.9
1999	12	25	1	1349	8.6	3.7	1	1520		5.0
1999	12	26	1	1377	6.5	5.4	1	1377		3.4
1999	12	27	4				4			
1999	12	28	4				4			
1999	12	29	4				4			
1999	12	30	4				4			
1999	12	31	2	1214	5.8	.7	1	1135		2.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	01	01	1	690	4.1	1.3	1	1533		3.4
2000	01	02	1	346	6.2	.3	1	482		2.8
2000	01	03	1	818	7.2	3.9	1	259		1.2
2000	01	04	1	647	6.8	2.5	2	505		4.3
2000	01	05	4				4			
2000	01	06	1	781	3.1	1.7	1	1128		4.5
2000	01	07	1	362	5.9	.4	1	848		5.9
2000	01	08	1	1692	10.4	5.5	1	1692		3.9
2000	01	09	1	670	6.6	3.2	1	1189		3.3
2000	01	10	1	960	8.1	4.1	2	714		7.0
2000	01	11	4				4			
2000	01	12	1	2569	14.5	6.6	1	2387		5.9
2000	01	13	1	1926	13.3	2.7	3			4.7
2000	01	14	1	1515	16.3	6.3	1	1306		8.2
2000	01	15	1		3.5	3.5	3			2.3
2000	01	16	1	820	15.8	3.0	1	1058		6.8
2000	01	17	1	1402	9.4	7.9	1	1361		7.2
2000	01	18	1	761	3.4	6.3	1	871		5.8
2000	01	19	1	722	5.6	4.5	1	1289		4.3
2000	01	20	2	1004	5.7	2.3	2	800		4.6
2000	01	21	4				4			
2000	01	22	4				4			
2000	01	23	1	787	3.0	1.5	1	1131		4.0
2000	01	24	1	440	4.1	3.0	1	1298		2.4
2000	01	25	2	918	6.3	6.5	2	845		6.2
2000	01	26	4				4			
2000	01	27	1	1168	9.9	5.3	1	997		6.3
2000	01	28	1	1160	17.4	7.5	2	1452		7.1
2000	01	29	1	830	9.7	4.7	1	993		5.3
2000	01	30	1	367	1.7	3.7	1	452		.9
2000	01	31	2	478	4.6	5.1	1	333		6.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	02	01	4				4			
2000	02	02	4				4			
2000	02	03	1	793	5.8	1.4	2	976		2.3
2000	02	04	2	1138	4.6	3.5	2	648		1.7
2000	02	05	2	1139	11.1	2.2	1	1221		6.1
2000	02	06	1	2073	20.4	6.3	1	1918		6.4
2000	02	07	1	1335	13.7	4.7	1	1436		6.9
2000	02	08	1	1367	6.2	3.9	1	1872		3.1
2000	02	09	1	366	6.0	1.3	1	1074		5.4
2000	02	10	1		1.7	1.7	1	1422		3.3
2000	02	11	2	551	2.8	3.4	2	551		3.3
2000	02	12	1	1492	9.4	4.5	1	1583		3.0
2000	02	13	1	368	3.0	2.1	2	1104		3.3
2000	02	14	2	967	14.5	2.9	1	1200		6.3
2000	02	15	1	1400	14.0	4.7	1	1374		5.1
2000	02	16	1	504	12.3	2.1	1	1095		4.4
2000	02	17	1	2019	16.5	6.3	1	1949		4.6
2000	02	18	2	834	5.8	3.7	2	713		6.4
2000	02	19	2	1028	7.1	3.4	2	587		3.6
2000	02	20	1	1868	9.6	3.3	1	1602		5.4
2000	02	21	1	2029	11.0	4.1	1	2098		4.5
2000	02	22	1	192	3.1	.4	1	828		4.5
2000	02	23	1	10	.0	.0	1	1009		4.8
2000	02	24	1	212	1.8	1.3	1	1076		2.6
2000	02	25	2	441	1.6	1.8	2	277		5.5
2000	02	26	1	771	6.7	3.4	1	615		3.4
2000	02	27	1	461	10.1	.4	1	387		3.2
2000	02	28	2	1392	10.2	4.0	1	913		6.0
2000	02	29	1	1184	13.1	5.5	1	1498		5.1

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	03	01	1	347	1.8	2.3	1	626		4.8
2000	03	02	4				4			
2000	03	03	4				4			
2000	03	04	4				4			
2000	03	05	4				4			
2000	03	06	1	1232	9.1	3.3	1	2116		6.3
2000	03	07	1	286	1.2	.8	1	1676		4.8
2000	03	08	1	87	1.2	1.2	1	501		4.3
2000	03	09	4				4			
2000	03	10	1	1639	11.1	4.8	1	1338		3.4
2000	03	11	2	1104	4.5	5.0	2	778		7.1
2000	03	12	2	1370	9.5	2.4	2	1171		4.6
2000	03	13	1	2020	14.0	3.3	1	2301		4.6
2000	03	14	1	375	10.5	.8	1	2135		5.2
2000	03	15	1	220	4.8	1.0	1	2016		4.9
2000	03	16	1		2.6	2.6	1	530		4.3
2000	03	17	2	472	9.6	4.9	3			7.4
2000	03	18	1	570	8.8	5.1	1	1891		3.6
2000	03	19	1	999	7.0	2.9	1	1108		5.5
2000	03	20	1	505	3.6	4.1	1	921		4.8
2000	03	21	2	843	4.5	3.8	1	843		4.9
2000	03	22	2	836	4.4	4.9	1	907		4.2
2000	03	23	1	124	.0	.0	1	1181		3.7
2000	03	24	1		4.2	4.2	1	1894		2.8
2000	03	25	1	153	2.4	.7	1	616		4.6
2000	03	26	4				4			
2000	03	27	4				4			
2000	03	28	4				4			
2000	03	29	4				4			
2000	03	30	4				4			
2000	03	31	1	1163	6.0	2.7	1	3251		5.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	04	01	1	277	3.6	.0	1	1906		5.0

2000	04	02	1	206	5.4	1.7	1	459	4.9
2000	04	03	1	1146	3.9	2.0	1	877	3.4
2000	04	04	4				4		
2000	04	05	4				4		
2000	04	06	4				4		
2000	04	07	1	1825	12.3	3.3	1	1914	3.2
2000	04	08	1	433	3.3	2.9	1	1940	4.9
2000	04	09	4				4		
2000	04	10	4				4		
2000	04	11	1	1203	3.4	1.0	2	1203	3.3
2000	04	12	2	1192	12.9	3.7	1	1192	7.6
2000	04	13	1	667	5.9	1.2	1	2326	4.4
2000	04	14	1	412	6.9	.5	1	1915	3.6
2000	04	15	2	109	.5	.5	2	289	2.4
2000	04	16	2		.0	.0	1	659	2.7
2000	04	17	1	1000	2.8	1.9	2	368	4.6
2000	04	18	2	876	6.0	4.4	2	925	4.7
2000	04	19	2	768	3.5	4.2	1	1014	3.7
2000	04	20	1	977	2.5	2.1	1	1280	2.5
2000	04	21	4				4		
2000	04	22	4				4		
2000	04	23	4				4		
2000	04	24	4				4		
2000	04	25	1	1602	3.9	2.6	1	1602	4.7
2000	04	26	1	1746	6.7	4.7	2	1477	3.5
2000	04	27	2	1088	1.0	2.3	1	1753	3.5
2000	04	28	1	1568	4.4	.5	1	2154	2.3
2000	04	29	1	214	.7	2.4	1	1781	4.8
2000	04	30	1	2215	10.3	4.6	1	2625	7.7

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	05	01	1	164	3.4	1.2	1	1504		6.5
2000	05	02	4				4			
2000	05	03	1		3.2	3.2	1	2329		4.7
2000	05	04	1		.8	.8	3			6.7
2000	05	05	1	113	1.7	1.7	1	2476		5.7
2000	05	06	1	205	2.9	2.4	1	2855		4.4
2000	05	07	1	80	1.2	1.2	1	3078		5.2
2000	05	08	4				4			
2000	05	09	4				4			
2000	05	10	4				4			
2000	05	11	4				4			
2000	05	12	4				4			

2000	05	13	4					4			
2000	05	14	1	1170	10.7	3.5		1	1554		5.3
2000	05	15	1	1449	5.7	1.3		1		5.0	5.0
2000	05	16	1	471	4.3	1.3		1	2611		2.8
2000	05	17	1	1544	5.2	1.3		1	2084		4.9
2000	05	18	2		3.2	3.2		2	1853		5.3
2000	05	19	2	1243	5.2	2.4		2	542		4.6
2000	05	20	1	788	4.5	3.0		2	446		2.1
2000	05	21	2	808	3.0	1.2		1	619		2.1
2000	05	22	1	876	2.0	1.3		2	409		4.0
2000	05	23	4					4			
2000	05	24	4					4			
2000	05	25	4					4			
2000	05	26	4					4			
2000	05	27	1	1085	8.0	2.9		1	1774		4.2
2000	05	28	1	1257	4.0	3.2		1	1744		2.9
2000	05	29	1	1580	1.9	2.9		1	1311		3.7
2000	05	30	1	887	3.9	3.0		1	1058		4.4
2000	05	31	1	432	6.6	1.3		1	801		3.6

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	06	01	1	146	.0	.0	1	1849		2.8
2000	06	02	1	297	2.7	.8	1	1987		4.4
2000	06	03	1	1605	10.9	6.3	1	1685		6.1
2000	06	04	1	427	1.1	.8	1	2334		4.9
2000	06	05	2	959	3.0	1.8	1	959		4.5
2000	06	06	2	996	6.0	4.6	2	291		5.9
2000	06	07	2	1054	8.6	5.1	1	2424		5.3
2000	06	08	1	212	3.8	1.5	1	1245		4.6
2000	06	09	1	432	4.6	3.6	1	1622		4.5
2000	06	10	1	715	8.2	3.8	1	2043		4.8
2000	06	11	1	431	6.8	2.2	1	1607		4.7
2000	06	12	2	636	.7	4.8	2	311		3.3
2000	06	13	2	776	4.7	2.7	3			3.2
2000	06	14	2	830	6.9	2.3	1	796		3.5
2000	06	15	2	513	12.0	1.7	2	745		1.8
2000	06	16	4				4			
2000	06	17	4				4			
2000	06	18	1	683	3.4	1.1	2	683		2.7
2000	06	19	1	1447	5.1	3.2	1	1231		3.5
2000	06	20	1		3.2	3.2	1	2018		4.8
2000	06	21	1		1.6	1.6	1	437		7.5
2000	06	22	4				4			

2000	06	23	4				4			
2000	06	24	1	719	2.5	1.8	1	1603		4.3
2000	06	25	1	375	8.1	2.3	1	933		5.6
2000	06	26	1	911	2.0	.3	1	1465		4.1
2000	06	27	4				4			
2000	06	28	1	1689	4.8	2.9	1	2378		3.1
2000	06	29	2		.8	.8	3			3.0
2000	06	30	4				4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	07	01	1	665	3.9	1.5	1	2260		2.7
2000	07	02	1	309	2.4	1.9	1	2334		2.2
2000	07	03	1	300	3.0	2.2	2	888		3.7
2000	07	04	1	915	2.1	.7	1	1490		2.4
2000	07	05	4				4			
2000	07	06	1	1359	3.6	4.2	1	1680		3.3
2000	07	07	1	1241	4.4	3.7	1		4.6	4.6
2000	07	08	1	436	4.7	2.6	1	2738		4.0
2000	07	09	1	273	2.3	1.6	2	2292		4.4
2000	07	10	4				4			
2000	07	11	4				4			
2000	07	12	1	520	2.7	2.6	1	2260		4.2
2000	07	13	1	326	.7	1.4	1	2118		4.0
2000	07	14	4				4			
2000	07	15	4				4			
2000	07	16	4				4			
2000	07	17	1	856	3.5	.7	1	1897		4.1
2000	07	18	4				4			
2000	07	19	1	1153	6.3	1.1	2	1153		1.2
2000	07	20	1	1372	3.7	2.9	1	1617		7.0
2000	07	21	4				4			
2000	07	22	4				4			
2000	07	23	1	682	6.9	3.2	1	2455		3.4
2000	07	24	1	562	2.6	2.5	1	1773		2.5
2000	07	25	1		2.0	2.0	3			3.5
2000	07	26	2	921	3.9	2.6	2	327		7.3
2000	07	27	2	895	4.3	2.9	2	535		2.4
2000	07	28	2	757	1.2	2.1	1	821		2.8
2000	07	29	1	439	2.1	1.0	1	439		2.5
2000	07	30	2	399	2.0	.9	2	399		2.8
2000	07	31	1	770	4.5	1.5	2	183		3.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	08	01	2	610	4.4	1.9	1	568		1.8
2000	08	02	2	695	4.3	.0	1	1644		3.3
2000	08	03	2	852	5.6	1.5	2	736		4.0
2000	08	04	1	1274	5.2	2.0	1	1793		2.2
2000	08	05	1	1421	4.1	3.2	1	2439		2.5
2000	08	06	1	327	1.4	.5	2	1693		3.1
2000	08	07	4				4			
2000	08	08	1	1145	8.4	2.1	1	2214		3.5
2000	08	09	1		2.5	2.5	1	2300		3.7
2000	08	10	4				4			
2000	08	11	1	1027	3.0	1.5	2	1027		3.1
2000	08	12	1	1147	3.1	3.3	1	1034		2.6
2000	08	13	1	1673	4.0	3.6	2	1673		4.6
2000	08	14	1	756	3.7	4.3	1	608		4.0
2000	08	15	2	1006	3.0	3.4	1	1716		3.6
2000	08	16	1		2.2	2.2	1	1077		6.5
2000	08	17	1	1453	10.5	4.5	1	1556		4.5
2000	08	18	1	1049	3.4	1.1	2	985		2.5
2000	08	19	1	806	5.5	3.4	1	2076		3.6
2000	08	20	1	1533	9.0	2.9	1	2598		4.4
2000	08	21	1	713	4.9	3.7	1	1962		3.1
2000	08	22	1	415	1.4	1.5	1	2117		2.4
2000	08	23	1	480	5.6	2.5	2	526		4.5
2000	08	24	1	965	4.1	2.1	1	2035		.9
2000	08	25	1	489	.7	2.7	1	2124		1.8
2000	08	26	1	265	.7	1.2	1	1998		2.3
2000	08	27	1	323	2.2	.5	1	1564		2.9
2000	08	28	1	1385	1.8	3.2	2	1127		2.9
2000	08	29	1	675	2.9	2.8	1	945		3.3
2000	08	30	1	557	2.3	2.7	1	885		2.2
2000	08	31	1	1055	2.5	1.9	1	1253		3.4

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	09	01	2	890	2.8	1.7	1	1042		3.2
2000	09	02	2	1037	1.8	1.1	2	1037		2.6
2000	09	03	1	1190	3.3	.4	1	1762		3.5
2000	09	04	4				4			
2000	09	05	1	1267	8.0	5.2	1	1623		4.8
2000	09	06	1	1076	2.1	3.9	1	1248		2.8
2000	09	07	1	457	1.7	1.7	1	1195		3.3
2000	09	08	1	350	3.7	2.7	1	861		3.5
2000	09	09	1	431	2.3	1.7	1	1996		2.8
2000	09	10	1	952	2.1	1.2	1	1594		3.2
2000	09	11	1	551	7.3	1.9	1	656		3.4
2000	09	12	1	803	10.4	2.0	1	1099		4.3
2000	09	13	4				4			
2000	09	14	1	400	1.7	2.3	1	1012		2.9
2000	09	15	4				4			
2000	09	16	4				4			
2000	09	17	1	546	4.9	2.3	1	1841		5.7
2000	09	18	1	298	2.1	1.5	1	1923		3.4
2000	09	19	1	390	3.5	.2	2	543		4.1
2000	09	20	4				4			
2000	09	21	4				4			
2000	09	22	1	1476	9.1	3.1	1	1801		2.5
2000	09	23	1	451	5.1	.0	2	840		3.1
2000	09	24	2	1012	10.6	1.6	1	1012		3.5
2000	09	25	1	1333	5.7	3.1	1	1533		3.3
2000	09	26	2	1157	5.0	5.6	2	311		5.7
2000	09	27	1	519	4.5	2.4	1	1552		2.9
2000	09	28	1	1342	7.8	2.5	1	1535		5.6
2000	09	29	1	961	4.6	2.6	1	1295		2.4
2000	09	30	1		.7	.7	3			3.9

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	10	01	1	335	2.0	.8	1	1512		2.9

2000	10	02	2	389	.4	1.6	1	1131		1.7
2000	10	03	4				4			
2000	10	04	1	279	1.6	.5	1	1182		3.9
2000	10	05	2	1090	3.3	3.3	2	388		2.5
2000	10	06	2	1402	6.1	1.4	1	1707		2.6
2000	10	07	1	759	5.7	3.0	1	1966		2.8
2000	10	08	1	1346	5.7	3.7	1	2279		4.1
2000	10	09	1	1682	5.9	3.2	1	2205		5.3
2000	10	10	1	1901	6.8	3.0	1	3058		5.9
2000	10	11	1	877	12.4	4.1	1	1810		5.7
2000	10	12	1	267	4.5	.0	1	1277		2.7
2000	10	13	1	159	3.8	1.2	1	1320		3.3
2000	10	14	1	106	1.3	1.3	1	1427		3.1
2000	10	15	1	122	.8	.8	1	1856		1.8
2000	10	16	2	1201	8.0	5.0	2	510		3.2
2000	10	17	2	854	4.3	3.5	2	854		3.9
2000	10	18	2	943	5.5	2.9	2	417		2.4
2000	10	19	1	461	6.3	1.9	1	1909		4.4
2000	10	20	1	293	4.5	2.0	1	1360		3.1
2000	10	21	1	117	.3	.3	1	1027		3.1
2000	10	22	1	1137	7.1	4.7	1	1310		3.8
2000	10	23	1	588	2.7	3.2	1	1148		1.9
2000	10	24	1	307	4.8	1.5	1	897		2.8
2000	10	25	1	328	1.2	2.0	1	1573		3.2
2000	10	26	1	233	1.0	.0	1	986		2.7
2000	10	27	1	259	1.6	.4	1	357		1.4
2000	10	28	1	2053	13.2	6.1	1	1385		6.6
2000	10	29	1	1746	11.1	4.4	2	1694		5.1
2000	10	30	1	1714	12.9	3.8	1	1748		7.3
2000	10	31	1	1104	9.4	7.9	1	1406		6.9

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	11	01	1	961	10.2	5.3	1	1155		7.0
2000	11	02	1	928	11.9	5.7	1	1023		5.5
2000	11	03	1	658	4.8	4.4	1	908		2.4
2000	11	04	1	264	3.4	1.5	1	1434		2.5
2000	11	05	4				4			
2000	11	06	1	1224	9.1	3.5	1	1692		5.3
2000	11	07	1	1022	6.6	3.9	1	1178		4.1
2000	11	08	1	658	3.1	2.8	1	913		2.3
2000	11	09	1	456	1.0	1.6	1	540		3.8
2000	11	10	4				4			
2000	11	11	4				4			

2000	11	12	1	1220	9.6	6.0	1	1181		5.0
2000	11	13	1	846	2.7	3.0	1	985		1.8
2000	11	14	1	994	6.8	1.9	2	488		3.0
2000	11	15	4				4			
2000	11	16	1	1412	7.5	3.0	1	1608		4.2
2000	11	17	4				4			
2000	11	18	1	1882	8.8	4.3	1	2350		5.2
2000	11	19	1	2087	6.6	3.4	1	1507		2.3
2000	11	20	1	580	1.5	1.2	1	1744		3.9
2000	11	21	4				4			
2000	11	22	1	2170	13.6	7.2	1	1854		5.7
2000	11	23	1	1872	10.9	5.2	1	1872		5.2
2000	11	24	1	1312	9.7	2.3	1	2169		2.9
2000	11	25	1	638	2.0	2.1	1	720		3.0
2000	11	26	2	730	8.3	5.9	2	783		6.3
2000	11	27	4				4			
2000	11	28	4				4			
2000	11	29	1	1486	8.5	4.3	1	1865		3.6
2000	11	30	2	1387	5.6	2.4	1	431		5.1

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2000	12	01	1	1693	9.6	3.5	1	1644		4.7
2000	12	02	1	1759	11.4	3.6	1	1759		5.4
2000	12	03	1	772	3.8	2.2	1	1116		3.3
2000	12	04	1	651	6.0	2.8	1	813		2.6
2000	12	05	4				1	303		7.9
2000	12	06	1	1777	17.7	7.1	1	1553		4.5
2000	12	07	1	1828	8.1	3.1	1	1792		7.4
2000	12	08	2	1419	4.6	2.3	2	1111		3.0
2000	12	09	1	1857	8.2	3.3	1	1857		4.0
2000	12	10	1	693	7.6	3.0	2	952		3.4
2000	12	11	2	568	2.8	1.3	1	568		1.7
2000	12	12	2	1289	8.6	5.1	1	228		10.2
2000	12	13	1	1088	7.1	3.0	1	1279		2.1
2000	12	14	2	814	11.7	5.0	1	1220		3.3
2000	12	15	1	1281	4.4	4.5	1	1239		3.2
2000	12	16	1	1045	9.9	3.1	2	1045		4.8
2000	12	17	2	1144	14.6	4.9	2	1144		6.2
2000	12	18	4				4			
2000	12	19	1	769	3.7	.0	1	923		3.1
2000	12	20	4				4			
2000	12	21	1	899	2.1	1.0	1	1113		2.7
2000	12	22	2	1228	3.8	1.7	2	401		2.7

2000	12	23	1	648	11.6	7.0		1	1536	4.7
2000	12	24	1	791	4.0	.9		1	1031	3.1
2000	12	25	1	2101	15.7	7.6		1	1752	4.7
2000	12	26	1	1026	16.4	6.4		1	1663	6.3
2000	12	27	1	1479	10.9	5.8		1	1306	5.8
2000	12	28	4					4		
2000	12	29	1	855	5.3	5.6		1	870	3.5
2000	12	30	2	983	7.0	3.5		2	630	5.6
2000	12	31	4					4		

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	01	01	1	1000	14.1	5.8	1	1000		4.2
2001	01	02	1	914	7.9	4.2	1	1051		4.6
2001	01	03	1	332	5.0	3.4	1	1454		2.8
2001	01	04	4				4			
2001	01	05	4				4			
2001	01	06	4				4			
2001	01	07	4				4			
2001	01	08	4				4			
2001	01	09	4				4			
2001	01	10	2	1269	10.4	5.3	1	1337		5.3
2001	01	11	1	397	5.2	3.0	1	1315		6.2
2001	01	12	1	526	9.3	1.0	1	1265		2.7
2001	01	13	1	476	2.6	1.2	1	873		2.7
2001	01	14	1	113	2.1	2.1	1	637		1.4
2001	01	15	2	843	2.7	2.7	1	292		2.5
2001	01	16	1	815	6.3	2.2	1	815		5.4
2001	01	17	1	581	3.9	4.5	1	461		4.6
2001	01	18	1	1158	3.5	.7	2	695		4.0
2001	01	19	2	1286	9.5	2.9	2	622		2.9
2001	01	20	2	1485	5.9	4.0	2	699		3.9
2001	01	21	2	1047	8.0	6.5	1	1141		5.6
2001	01	22	1	825	6.0	2.9	1	1575		2.5
2001	01	23	1	276	13.7	.8	1	885		2.9
2001	01	24	1	213	2.9	2.6	1	1441		2.4
2001	01	25	1	1161	7.4	3.0	1	1161		4.7
2001	01	26	1	976	6.6	5.3	1	1102		3.0
2001	01	27	2	772	4.0	1.3	1	772		4.5
2001	01	28	1	1614	15.3	6.4	1	1614		4.5
2001	01	29	1	540	5.1	1.6	1	1682		2.7
2001	01	30	2	465	6.3	2.0	2	581		4.6
2001	01	31	4				4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	02	01	1	1604	9.3	2.1	1	1744		3.4
2001	02	02	1	1748	9.4	2.8	2	1514		2.8
2001	02	03	1	1546	16.4	5.6	1	1415		4.9
2001	02	04	1	580	3.0	1.2	1	1120		3.3
2001	02	05	1	597	4.9	3.8	2	357		5.3
2001	02	06	4				4			
2001	02	07	1	2124	13.5	4.4	1	1724		4.8
2001	02	08	1	637	4.2	1.3	1	1075		2.0
2001	02	09	1	555	9.8	3.2	2	555		1.2
2001	02	10	4				4			
2001	02	11	1	1922	22.0	5.5	1	1752		6.3
2001	02	12	1	868	2.7	2.3	1	922		3.4
2001	02	13	2	427	5.2	.6	1	1697		4.2
2001	02	14	1	359	2.9	.8	1	518		3.0
2001	02	15	4				4			
2001	02	16	1	734	2.8	2.6	2	670		2.2
2001	02	17	4				4			
2001	02	18	1	1695	14.8	4.3	1	1796		3.6
2001	02	19	1	983	6.1	2.8	1	1389		5.5
2001	02	20	1	330	7.8	3.6	1	1865		4.8
2001	02	21	1	252	4.5	4.5	3			5.8
2001	02	22	1	1463	12.3	1.7	2	1488		3.3
2001	02	23	2	756	5.4	3.7	1	1378		4.5
2001	02	24	1	1286	12.8	3.8	1	1527		2.0
2001	02	25	2	1103	2.3	4.2	2	1202		4.0
2001	02	26	1	2318	18.1	4.5	1	1684		6.3
2001	02	27	1	1320	10.7	2.8	1	1463		4.1
2001	02	28	1	2252	15.0	4.5	1	2129		6.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	03	01	4				4			
2001	03	02	4				4			
2001	03	03	4				4			
2001	03	04	1	1218	3.3	4.5	2	1018		7.2
2001	03	05	2	1054	4.2	5.3	2	244		4.3
2001	03	06	4				4			
2001	03	07	4				4			
2001	03	08	4				4			
2001	03	09	2	1149	6.7	3.9	3			1.4
2001	03	10	4				4			
2001	03	11	1	525	5.4	1.4	1	1561		5.2
2001	03	12	1	1142	9.5	4.6	1	1421		2.0
2001	03	13	2	804	5.7	5.8	1	671		2.4
2001	03	14	4				4			
2001	03	15	4				4			
2001	03	16	1	1271	6.1	1.9	1	1611		4.1
2001	03	17	2	999	5.3	4.2	2	1145		2.3
2001	03	18	2	1464	7.7	4.8	1	1779		6.5
2001	03	19	1	1454	12.6	4.0	1	2654		5.0
2001	03	20	1	352	1.5	2.4	1	1970		4.4
2001	03	21	1		5.5	5.5	3			6.0
2001	03	22	2	204	2.7	5.4	2	1	5.8	5.8
2001	03	23	4				4			
2001	03	24	4				4			
2001	03	25	1	2210	9.2	6.2	1	2617		4.1
2001	03	26	2	2316	4.0	3.4	2	1693		3.6
2001	03	27	1	1796	8.2	5.3	1	2351		5.1
2001	03	28	1	1581	9.3	3.9	1	1868		4.7
2001	03	29	1	937	4.1	3.4	2	1430		4.1
2001	03	30	2	1072	8.0	7.1	3			5.6
2001	03	31	4				4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	04	01	4				4			
2001	04	02	2	1195	3.8	1.6	1	1451		4.8

2001	04	03	1	1492	3.3	1.9	1	2163	5.1
2001	04	04	1	1734	5.9	4.8	1	1920	5.8
2001	04	05	1	278	2.3	2.6	1	2459	5.1
2001	04	06	1	151	1.7	.5	2	230	3.4
2001	04	07	1	610	4.4	3.4	1	276	4.1
2001	04	08	1	727	14.3	3.5	1	602	3.5
2001	04	09	2	671	11.7	2.4	1	1328	3.4
2001	04	10	2	1487	8.2	2.9	1	1599	2.3
2001	04	11	1	730	6.1	1.7	2	730	4.1
2001	04	12	2	575	8.2	5.4	2	575	1.6
2001	04	13	4				4		
2001	04	14	1	1459	13.6	5.5	1	2176	5.7
2001	04	15	1	722	2.9	1.7	1	2535	3.5
2001	04	16	4				4		
2001	04	17	4				4		
2001	04	18	4				4		
2001	04	19	1		2.9	2.9	1	2342	5.0
2001	04	20	1	244	2.9	1.1	1	2435	4.7
2001	04	21	2	393	3.8	2.3	1	1341	3.0
2001	04	22	2	210	5.1	.7	1	2261	4.7
2001	04	23	1	519	2.5	1.8	1	879	4.3
2001	04	24	4				4		
2001	04	25	1		5.3	5.3	3		4.0
2001	04	26	1	403	1.6	3.4	1	2136	4.0
2001	04	27	1	201	4.7	2.3	1	2189	4.8
2001	04	28	1	2204	11.4	6.2	1	2204	7.5
2001	04	29	1	1572	6.2	3.2	1	2083	4.4
2001	04	30	1	127	2.1	2.1	1	1938	3.7

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	05	01	4				4			
2001	05	02	4				4			
2001	05	03	1		1.8	1.8	1	2061		4.0
2001	05	04	4				4			
2001	05	05	1		3.8	3.8	3			3.7
2001	05	06	1	1451	6.8	3.8	1	1874		5.5
2001	05	07	1	253	2.0	1.5	1	940		3.4
2001	05	08	1	374	4.1	2.4	1	797		4.8
2001	05	09	1	210	1.3	1.8	1	1963		3.2
2001	05	10	1	277	2.8	4.2	1	2355		3.8
2001	05	11	1	175	1.1	2.7	1	2681		3.8
2001	05	12	4				4			
2001	05	13	1	1569	9.4	6.8	1	2000		7.4

2001	05	14	1		4.2	4.2	1	2776		4.7
2001	05	15	1		4.0	4.0	1	3559		7.0
2001	05	16	1	836	3.9	2.6	1	1264		2.7
2001	05	17	1	910	3.6	2.2	1	910		3.1
2001	05	18	2	941	5.4	2.4	1	648		3.9
2001	05	19	4				4			
2001	05	20	1	709	4.0	3.2	1	999		3.8
2001	05	21	1	605	7.2	3.3	2	605		4.2
2001	05	22	2		4.2	4.2	3			6.9
2001	05	23	2	696	10.9	4.0	2	56	4.8	4.8
2001	05	24	2	904	4.4	2.8	2	904		2.8
2001	05	25	2	954	7.6	3.8	2	277		5.0
2001	05	26	2	548	4.7	3.2	2	548		2.5
2001	05	27	2	163	2.0	2.6	2	163		3.8
2001	05	28	4				4			
2001	05	29	4				4			
2001	05	30	1	2483	8.9	4.0	1	2630		8.1
2001	05	31	1	1238	10.3	4.3	1		6.5	6.5

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	06	01	1		2.6	2.6	2	1590		4.4
2001	06	02	4				4			
2001	06	03	4				4			
2001	06	04	4				4			
2001	06	05	1	1113	7.6	3.4	1	2037		4.9
2001	06	06	1	1855	9.8	3.2	1	2342		4.6
2001	06	07	1	458	2.3	3.9	1	2112		2.6
2001	06	08	4				4			
2001	06	09	4				4			
2001	06	10	4				4			
2001	06	11	4				4			
2001	06	12	4				4			
2001	06	13	4				4			
2001	06	14	1	441	2.3	2.0	1	631		2.6
2001	06	15	1	286	1.1	1.5	1	633		3.8
2001	06	16	1	768	3.1	2.3	1	915		4.0
2001	06	17	2		4.2	4.2	3			5.8
2001	06	18	4				4			
2001	06	19	1	229	3.7	2.2	1	1078		4.5
2001	06	20	1	252	1.6	2.0	1	1385		4.5
2001	06	21	1	575	3.2	2.7	2	350		3.7
2001	06	22	1	794	12.6	3.2	1	1071		6.7
2001	06	23	1	1079	4.0	2.3	2	878		2.7

2001	06	24	2	1271	4.5	3.0	1	1369	3.7
2001	06	25	1	709	3.7	2.8	1	1781	2.8
2001	06	26	1	383	2.1	3.1	1	2302	2.9
2001	06	27	1	307	3.3	2.6	1	2183	4.8
2001	06	28	1	1024	7.6	3.7	1	1483	4.5
2001	06	29	1	1107	2.7	2.4	1	1107	4.1
2001	06	30	1	325	1.9	2.1	1	2419	3.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	07	01	4				4			
2001	07	02	1	1711	12.3	6.8	1	2028		6.5
2001	07	03	1	257	2.5	2.9	1	1411		6.2
2001	07	04	2	476	3.7	2.6	1	826		3.2
2001	07	05	4				4			
2001	07	06	1	1602	7.8	5.0	1	2131		6.0
2001	07	07	1	347	2.9	1.8	1	1441		5.8
2001	07	08	2	743	4.0	2.3	1	626		2.7
2001	07	09	4				4			
2001	07	10	4				4			
2001	07	11	4				4			
2001	07	12	4				4			
2001	07	13	4				4			
2001	07	14	4				4			
2001	07	15	1	320	4.7	2.4	1	2293		4.4
2001	07	16	1	419	1.5	2.9	1	2370		2.5
2001	07	17	2	1578	7.0	2.1	1	1578		4.0
2001	07	18	2	1115	3.0	1.9	1	1326		4.1
2001	07	19	1	661	1.9	2.8	1	985		3.2
2001	07	20	1	254	1.3	2.9	1	1748		2.2
2001	07	21	1	243	2.2	3.5	1	1556		3.1
2001	07	22	1	265	3.0	1.5	1	1062		5.2
2001	07	23	1	247	2.8	2.1	1	1370		3.5
2001	07	24	4				4			
2001	07	25	4				4			
2001	07	26	2	1482	8.7	3.0	2	826		4.1
2001	07	27	1	911	5.6	3.4	1	1864		4.1
2001	07	28	1	392	2.3	2.5	1	1926		2.4
2001	07	29	1	442	3.2	2.1	1	746		4.5
2001	07	30	1		3.2	3.2	3			4.5
2001	07	31	1	229	.6	1.9	1	1581		4.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	08	01	4				4			
2001	08	02	4				4			
2001	08	03	4				4			
2001	08	04	4				4			
2001	08	05	1	545	1.0		1	1547		2.4
2001	08	06	1	395	1.5	1.8	1	1679		3.7
2001	08	07	1	460	3.5	3.0	1	1845		3.7
2001	08	08	1	1005	2.9	3.7	1	2390		3.3
2001	08	09	4				4			
2001	08	10	4				4			
2001	08	11	1	1245	2.8	2.6	2	448		2.6
2001	08	12	1	962	4.8	2.9	2	529		1.8
2001	08	13	1	1087	3.3	1.7	2	1008		2.2
2001	08	14	1	745	4.6	3.7	1	1842		3.6
2001	08	15	1	522	1.3	2.1	1	1958		3.5
2001	08	16	1	305	5.1	1.5	1	1150		4.8
2001	08	17	1	939	7.5	2.3	1	1269		3.2
2001	08	18	1	624	5.3	2.0	1	2056		2.9
2001	08	19	1	461	.9	2.1	1	1358		2.9
2001	08	20	4				4			
2001	08	21	1	348	3.6	2.2	1	1713		2.9
2001	08	22	1	507	6.1	3.3	1	2289		2.8
2001	08	23	1	287	1.4	2.1	2	1082		2.4
2001	08	24	1	808	7.3	3.9	1	1573		4.6
2001	08	25	1	890	2.8	2.9	1	1145		4.2
2001	08	26	1	297	4.0	1.7	1	881		4.7
2001	08	27	4				4			
2001	08	28	1	592	1.1	2.0	1	2082		3.2
2001	08	29	1	991	5.9	3.5	1	2320		2.2
2001	08	30	1	1008	2.9	2.3	1	1480		3.2
2001	08	31	1	1161	8.2	2.4	1	781		3.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	09	01	4				4			
2001	09	02	1	1129	3.9	3.3	1	1461		3.0
2001	09	03	1	309	2.9	1.7	1	947		3.9
2001	09	04	4				4			
2001	09	05	1	1859	8.5	4.8	1	1879		4.7
2001	09	06	1	465	2.8	2.6	1	1305		2.0
2001	09	07	1	272	1.1	2.1	1	887		3.5
2001	09	08	1	285	5.1	2.0	1	567		2.9
2001	09	09	1	313	3.3	1.5	1	794		4.6
2001	09	10	1	468	7.2	2.1	2	1029		4.3
2001	09	11	1	490	5.5	2.7	1	1857		3.9
2001	09	12	1	639	2.2	4.4	1	1671		3.2
2001	09	13	1	214	3.6	2.3	1	1565		2.5
2001	09	14	2	1385	7.4	5.5	2	873		2.9
2001	09	15	1	441	2.8	4.8	1	1911		3.5
2001	09	16	1	364	1.6	2.9	1	1465		2.8
2001	09	17	1	489	1.1	4.0	1	1563		3.6
2001	09	18	1	330	2.2	3.4	1	1556		2.8
2001	09	19	1	362	.7	2.2	1	1262		4.6
2001	09	20	1	1094	11.3	2.4	2	179		3.6
2001	09	21	2	965	4.4	1.9	1	965		2.8
2001	09	22	1				1	155		2.8
2001	09	23	1	800	2.7	3.2	1	1314		2.1
2001	09	24	1	629	8.0	1.9	1	629		6.5
2001	09	25	4				4			
2001	09	26	4				4			
2001	09	27	4				4			
2001	09	28	4				4			
2001	09	29	1	1283	5.7	3.9	1	1283		5.1
2001	09	30	1	998	6.1	5.4	2	835		5.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	10	01	4				4			
2001	10	02	4				4			

2001	10	03	1	213	3.2	1.7	1	2368		2.9
2001	10	04	4				4			
2001	10	05	1	147	1.5	1.5	1	887		3.4
2001	10	06	4				4			
2001	10	07	1	1582	12.1	5.2	1	2005		8.3
2001	10	08	1	1931	12.7	6.2	1	3238		5.7
2001	10	09	1	279	1.4	2.3	1	1255		2.6
2001	10	10	1	313	3.1	2.1	1	845		2.6
2001	10	11	1	293	2.9	1.7	1	851		4.1
2001	10	12	1	180	.5	2.1	1	1072		2.2
2001	10	13	1	273	2.1	1.5	1	564		3.6
2001	10	14	1	708	9.7	3.0	1	708		3.7
2001	10	15	4				4			
2001	10	16	1	245	1.4	2.3	1	1389		6.3
2001	10	17	4				4			
2001	10	18	1	1366	15.3	5.9	1	1528		5.2
2001	10	19	1		1.7	1.7	1	1289		4.1
2001	10	20	1		3.1	3.1	1	1015		2.4
2001	10	21	1	168	4.6	1.5	1	1920		4.7
2001	10	22	1	918	6.4	1.9	1	1403		3.4
2001	10	23	1	1056	4.7	2.2	1	1056		4.7
2001	10	24	4				4			
2001	10	25	4				4			
2001	10	26	4				4			
2001	10	27	4				4			
2001	10	28	1	1657	8.1	5.8	1	1698		5.5
2001	10	29	1	323		2.7	1	1005		3.2
2001	10	30	1	1117	10.0	2.6	1	1789		5.0
2001	10	31	1		2.4	2.4	3			1.7

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	11	01	1	353	4.8	1.5	1	793		3.7
2001	11	02	1	268	6.0	1.8	1	587		3.5
2001	11	03	2	1790	8.7	2.2	1	759		4.0
2001	11	04	1		2.3	2.3	1	1588		3.3
2001	11	05	2	2168	12.5	6.3	1	1652		9.3
2001	11	06	1	1632	15.1	4.8	1	1722		7.8
2001	11	07	1	806	15.4	5.4	1	1090		8.4
2001	11	08	1		3.3	3.3	1	1036		3.1
2001	11	09	1	1741	18.5	7.1	1	1642		7.4
2001	11	10	1	338	3.5	1.5	1	1650		3.8
2001	11	11	1	2746	13.4	5.0	1	1757		6.6
2001	11	12	1	771	7.8	3.7	1	2112		6.4

2001	11	13	1	293	2.0	2.0	1	1579	2.7
2001	11	14	1	219	3.3	1.9	1	810	3.0
2001	11	15	1	215	1.9	2.6	1	1217	2.4
2001	11	16	1		2.0	2.0	1	1243	5.0
2001	11	17	1	809	6.7	4.0	1	809	2.9
2001	11	18	1	287	3.0	1.9	1	590	3.0
2001	11	19	1	342	3.1	1.9	1	468	3.4
2001	11	20	2	1693	12.6	6.4	1	1472	6.8
2001	11	21	1	659	2.7	3.2	1	1769	2.3
2001	11	22	1	520		2.3	1	580	2.8
2001	11	23	1		2.3	2.3	1	1407	3.5
2001	11	24	2	954	8.9	3.9	1	898	2.9
2001	11	25	1	642	11.8	2.9	2	752	5.2
2001	11	26	2	669	3.5	2.9	1	1037	4.3
2001	11	27	1	771	2.8	3.2	1	933	2.1
2001	11	28	1	792	4.7	2.9	1	1026	2.8
2001	11	29	2	1135	12.4	5.4	2	1031	4.2
2001	11	30	1	449	4.5	1.7	2	487	3.7

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2001	12	01	1	768	6.2	1.8	1	1278		4.1
2001	12	02	1	92	1.9	1.9	1	1541		3.2
2001	12	03	1	167	2.5	2.1	1	966		3.4
2001	12	04	1	432	3.2	2.3	1	800		2.5
2001	12	05	1	110	1.5	1.5	1	1272		2.6
2001	12	06	1	189	5.1	1.7	1	276		4.7
2001	12	07	2	1321	9.4	1.5	1	1582		4.4
2001	12	08	1	1239	4.1	4.0	2	1239		2.2
2001	12	09	2	1145	3.1	4.7	1	755		5.0
2001	12	10	1	469	2.5	2.1	1	1125		2.9
2001	12	11	1	801	2.5	2.1	1	1149		4.1
2001	12	12	1	380	3.5	3.5	1	276		3.6
2001	12	13	1	670	9.1	2.5	1	726		2.3
2001	12	14	2	1314	6.9	2.6	2	325		3.0
2001	12	15	1	1692	12.2	8.2	1	1199		6.8
2001	12	16	1	918	6.3	2.9	1	942		4.6
2001	12	17	1	685	5.8	1.5	2	685		2.0
2001	12	18	2	1161	8.1	5.9	1	911		10.1
2001	12	19	1	1793	15.5	4.8	1	1793		2.9
2001	12	20	1	343	3.9	2.9	1	343		9.7
2001	12	21	1	2055	13.1	8.2	1	1318		10.7
2001	12	22	1	1466	12.2	3.8	1	1671		5.8
2001	12	23	1	452	2.6	1.7	1	630		3.3

2001	12	24	2	1437	4.0	3.3	1	586	4.8
2001	12	25	1	1559	4.7	2.9	1	1252	3.1
2001	12	26	1	1199	1.8	2.1	1	1199	3.3
2001	12	27	1	1913	7.0	4.6	1	1913	5.4
2001	12	28	1	939	8.5	2.2	1	1799	3.7
2001	12	29	1	2175	10.1	2.8	1	1808	3.8
2001	12	30	1	1282	14.5	4.0	1	1282	6.2
2001	12	31	1	908	7.9	3.9	1	1279	6.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	01	01	1	737	10.4	4.6	1	1522		7.1
2002	01	02	1	1039	11.9	5.6	1	1526		6.7
2002	01	03	1	1291	11.4	3.7	1	1291		3.5
2002	01	04	1	681	8.6	3.0	1	1244		6.0
2002	01	05	1	1042	5.1	2.7	1	1237		3.0
2002	01	06	1	138			2	278		2.9
2002	01	07	2	1267	13.4	5.4	2	57	6.0	6.0
2002	01	08	1	731	5.7	6.1	1	1012		4.4
2002	01	09	1	858	6.8	1.9	2	652		2.5
2002	01	10	1	351	7.1	2.9	1	1214		4.1
2002	01	11	2	272	3.7	1.9	2	146	5.5	5.5
2002	01	12	1	1723	11.5	3.3	1	1723		3.7
2002	01	13	2	626	5.6	2.7	1	432		12.6
2002	01	14	1	1457	12.7	4.4	1	1373		2.4
2002	01	15	1	572	2.9	1.7	1	731		5.0
2002	01	16	1	806	7.6	8.4	1	92	5.2	5.2
2002	01	17	2	852	8.3	1.8	1	1287		5.2
2002	01	18	1	1577	7.0	2.5	1	1954		6.9
2002	01	19	1	1610	3.9	2.9	2	804		2.4
2002	01	20	2	217	2.2	3.7	1	986		4.6
2002	01	21	1	399	6.9	1.5	2	499		3.2
2002	01	22	1	1889	14.2	4.0	1	1478		4.9
2002	01	23	1	249	6.1	1.7	1	396		3.8
2002	01	24	1	332	3.6	1.9	2	242		3.5
2002	01	25	1	2120	13.9	4.5	1	2067		7.7
2002	01	26	1	368	6.2	2.4	1		4.6	4.6
2002	01	27	1	64	2.3	2.3	1	1580		3.0
2002	01	28	1		2.1	2.1	1	309		3.1
2002	01	29	1	133	1.7	1.7	1	1733		4.6
2002	01	30	1	652	3.6	2.3	2	411		4.8
2002	01	31	2	1259	3.2	3.2	2	794		3.6

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	02	01	4				4			
2002	02	02	1	1928	22.0	8.0	1	1928		8.5
2002	02	03	1	317	3.9	1.5	1	1666		3.8
2002	02	04	1	1055	7.3	2.0	1	2114		2.8
2002	02	05	1	1266	14.5	8.7	1	1771		6.0
2002	02	06	1	1615	14.3	5.0	1	1655		4.6
2002	02	07	1	1058	4.1	1.2	2	697		1.2
2002	02	08	1	286	9.7	3.2	1	1906		4.3
2002	02	09	1	1227	7.1	3.7	1	1337		3.6
2002	02	10	4				4			
2002	02	11	2	756	14.6	3.5	3			8.9
2002	02	12	1	655	5.7	.7	1	1365		5.3
2002	02	13	1	1612	12.8	3.1	1	1169		9.3
2002	02	14	1	638	4.7	1.4	1	1393		3.6
2002	02	15	1	436	10.8	2.6	1	812		4.8
2002	02	16	1	602	2.5	1.2	1	2407		4.0
2002	02	17	2	1522	7.0	2.1	1	828		5.9
2002	02	18	1	1029		9.2	1	1420		7.6
2002	02	19	1	365	2.7	2.8	1	1031		2.2
2002	02	20	1	283	4.8	1.1	1	441		4.5
2002	02	21	2	286	4.7	1.5	1	461		4.5
2002	02	22	1	2155	9.9	2.4	1	1892		6.1
2002	02	23	1	1580	7.3	4.5	1	1681		3.8
2002	02	24	1	703	2.1	3.9	1	839		3.0
2002	02	25	1	305	7.5	.4	1	402		5.3
2002	02	26	1	447	6.5	2.3	1	557		5.9
2002	02	27	1	1637	5.4	4.1	2	505		4.9
2002	02	28	2	1716	22.3	9.9	1	2073		7.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	03	01	4				4			
2002	03	02	4				4			
2002	03	03	2	638	13.5	6.2	1	528		2.6
2002	03	04	1	2115	14.0	7.4	1	1936		6.3
2002	03	05	1	2102	7.5	4.8	1	2228		5.5
2002	03	06	1	2590	12.1	2.2	1		4.6	4.6
2002	03	07	1	812	4.9	1.8	1	2772		3.6
2002	03	08	1	550	3.6	2.4	1	550		3.9
2002	03	09	1	447	6.3	2.0	1	929		5.1
2002	03	10	2	2189	17.0	8.3	1	1488		9.4
2002	03	11	1	2199	17.0	6.5	1	2255		5.5
2002	03	12	1	1776	7.7	.9	1	1925		2.2
2002	03	13	1	584	3.1	2.8	2	501		3.3
2002	03	14	2	387	3.0	3.8	1	1799		3.5
2002	03	15	1	437	6.2	1.9	1	632		3.9
2002	03	16	1	648	6.6	1.0	1	648		6.5
2002	03	17	1	820	6.1	4.0	1	836		3.7
2002	03	18	2	291	2.3	4.8	2	257		4.0
2002	03	19	1	1426	8.3	1.6	1	1426		3.4
2002	03	20	2	1269	11.7	4.9	2	453		5.3
2002	03	21	1	922	8.3	3.5	1	1579		4.8
2002	03	22	1	2216	16.1	10.1	1	2342		9.1
2002	03	23	1	2014	15.0	3.2	1	2932		6.8
2002	03	24	1	2011	14.6	3.5	1	2782		4.8
2002	03	25	1	1743	8.9	4.8	1	1720		2.9
2002	03	26	1	1335	8.1	3.1	2	838		8.3
2002	03	27	2	1390	8.8	3.6	1	1228		7.3
2002	03	28	1	666	6.8	3.2	1	2203		3.8
2002	03	29	1	334	4.0	.4	1	1796		6.8
2002	03	30	1	481	13.6	4.3	1	1790		4.4
2002	03	31	2	1082	3.1	1.8	1	1258		2.7

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	04	01	2	1279	2.0	3.5	1	1481		8.1
2002	04	02	1	1172	7.9	3.6	1	1702		5.5
2002	04	03	1	1546	15.2	3.9	2	1905		5.3

2002	04	04	1	1901	11.1	5.1	1	1969		6.9
2002	04	05	1	1730	5.5	2.4	1	1810		4.4
2002	04	06	1	1437	6.5	4.0	1	2924		6.5
2002	04	07	1	1524	4.9	2.7	1	2016		2.4
2002	04	08	1	405	3.9	2.0	1	1061		4.3
2002	04	09	1	381	9.7	2.9	2	1207		4.4
2002	04	10	2	1265	12.4	5.8	1	1576		4.8
2002	04	11	1	681	5.3	5.0	1	681		4.9
2002	04	12	1	448	10.0	2.5	1	633		3.2
2002	04	13	1	267	3.3	.7	1	818		5.5
2002	04	14	2	1279	7.6	3.2	1	1975		3.4
2002	04	15	2	384	2.5	2.0	1	2200		4.6
2002	04	16	1	132	1.9	1.9	1	1879		3.4
2002	04	17	1	142	2.7	2.7	1	2964		4.2
2002	04	18	1	282	3.3	1.6	1	2756		2.7
2002	04	19	1	222	6.5	1.9	2	468		4.3
2002	04	20	1	1036	11.0	3.2	2	941		3.4
2002	04	21	1	1886	11.4	3.4	2	1940		2.8
2002	04	22	2	1650	10.0	3.0	2	1268		2.5
2002	04	23	1	2019	8.8	5.6	1	2264		5.8
2002	04	24	1	316	1.8	3.5	1	2423		3.5
2002	04	25	1	291	13.8	2.4	2	335		6.1
2002	04	26	1	899	8.0	2.8	1	3080		7.2
2002	04	27	1	813	7.9	1.3	1	2506		4.7
2002	04	28	2	1265	9.4	4.6	2	992		3.3
2002	04	29	1	1292	14.5	3.2	1	942		8.7
2002	04	30	1	1768	4.6	4.5	2	2305		3.4

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	05	01	1	1173	11.7	1.8	1	2911		6.2
2002	05	02	2	1488	17.5	3.5	1	1016		1.7
2002	05	03	1	318	4.4	5.9	1	285		12.4
2002	05	04	1	456	6.1	3.2	1	2185		4.5
2002	05	05	1	319	1.8	1.2	1	2357		4.0
2002	05	06	1	113	.2	.2	1	624		6.2
2002	05	07	1	453	6.3	1.4	1	1735		3.6
2002	05	08	1	1341	8.6	7.4	1	1341		3.8
2002	05	09	2		3.4	3.4	3			3.3
2002	05	10	1	1534	12.2	2.7	1	1762		5.8
2002	05	11	1	1852	13.2	5.0	1	2276		4.9
2002	05	12	2	1066	4.9	1.9	2	219		3.1
2002	05	13	2	913	8.5	3.7	2	331		5.6
2002	05	14	2	1245	9.6	3.5	1	1765		5.9

2002	05	15	1	1909	21.8	8.0	1	3403		10.1
2002	05	16	1	136	2.2	2.2	1	2275		5.0
2002	05	17	1		1.8	1.8	1	163		6.9
2002	05	18	2	1177	4.4	4.8	2	808		7.6
2002	05	19	1	1354	6.5	4.1	1	2170		5.0
2002	05	20	1	1341	2.7	3.8	1	2519		4.1
2002	05	21	1	769	7.2	3.8	1	2622		4.0
2002	05	22	1	164	2.9	3.0	1	2442		3.7
2002	05	23	1	173	1.8	1.0	1	1579		4.3
2002	05	24	1	172	3.4	2.8	1	1776		3.5
2002	05	25	1	1324	8.7	5.1	1	1470		3.8
2002	05	26	1	516	10.8	3.0	1	569		1.5
2002	05	27	1	475	.9	1.2	1	837		3.3
2002	05	28	1	180	1.6	.9	1	539		2.9
2002	05	29	1	668	6.5	2.2	1	724		4.3
2002	05	30	1	365	6.2	.7	1	1114		5.1
2002	05	31	1	413	7.5	1.8	1	828		5.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	06	01	1	628	7.5	1.9	1	2891		5.1
2002	06	02	1	1564	14.5	1.8	1	1594		10.4
2002	06	03	1	1543	9.5	3.0	1	2112		5.0
2002	06	04	1	878	5.0	3.4	1	1381		5.1
2002	06	05	1	547	8.9	2.7	1	992		3.8
2002	06	06	1	1345	7.2	1.7	2	1024		4.9
2002	06	07	2	1125	4.7	4.4	1	1846		4.4
2002	06	08	1	325	6.5	1.2	1	736		3.9
2002	06	09	1	304	3.5	1.7	1	1762		2.6
2002	06	10	1	1123	7.4	3.5	1	1663		3.1
2002	06	11	1	206	5.8	1.0	1	1431		3.3
2002	06	12	1	1047	5.7	3.3	2	1047		4.5
2002	06	13	1	886	2.9	2.2	1	886		2.2
2002	06	14	2	552	2.6	2.6	3			3.4
2002	06	15	2	1008	5.8	2.5	2	882		1.0
2002	06	16	2	725	7.2	1.5	2	1764		4.4
2002	06	17	1	756	7.4	2.7	1	2319		4.1
2002	06	18	1	554	2.6	2.7	4			
2002	06	19	1	452	2.0	1.6	4			
2002	06	20	1		1.1	1.1	3			4.2
2002	06	21	1	329	4.1	.8	1	740		3.9
2002	06	22	1	215	2.7	1.3	1	1203		2.4
2002	06	23	1	519	4.4	1.8	1	878		2.7
2002	06	24	1	1132	8.4	3.8	1	1436		2.7

2002	06	25	1	1205	1.6	1.4	1	1464	3.4
2002	06	26	1	197	2.9	1.0	1	2035	3.7
2002	06	27	1	1022	8.0	2.5	2	1747	3.7
2002	06	28	1	1116	7.2	2.1	1	1641	4.8
2002	06	29	1		4.0	4.0	1	1154	4.1
2002	06	30	1		.4	.4	1	837	3.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	07	01	1	313	3.2	1.2	1	521		3.5
2002	07	02	1	505	3.3	3.0	1	1447		3.6
2002	07	03	4				4			
2002	07	04	4				4			
2002	07	05	4				4			
2002	07	06	1	600	3.3	5.1	1	2071		5.5
2002	07	07	1	632	10.7	4.3	1	2063		3.7
2002	07	08	1	202	2.4	2.7	1	1462		3.3
2002	07	09	1	496	3.8	2.0	2	2261		2.5
2002	07	10	1	1598	9.7	4.5	1	1862		6.2
2002	07	11	1	1310	7.7	4.4	1	2356		4.3
2002	07	12	1	345	2.3	2.4	1	1476		3.1
2002	07	13	1	319	2.1	1.5	1	1690		3.1
2002	07	14	1	354	1.5	1.6	1	693		1.3
2002	07	15	1		1.6	1.6	1	2522		4.2
2002	07	16	4				4			
2002	07	17	1	511	1.8	.6	1	1317		3.4
2002	07	18	4				4			
2002	07	19	4				4			
2002	07	20	1	1124	5.4	2.6	1	1955		2.6
2002	07	21	1	472	3.5	1.6	1	1535		4.8
2002	07	22	1	497	5.1	1.1	1	1051		5.2
2002	07	23	4				4			
2002	07	24	1	1107	4.9	4.0	1	1456		2.4
2002	07	25	1	488	2.1	2.9	1	1482		5.0
2002	07	26	1	593	5.8	2.1	1	593		2.4
2002	07	27	1	837	4.6	.5	1	764		2.5
2002	07	28	4				4			
2002	07	29	4				4			
2002	07	30	4				4			
2002	07	31	4				4			

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	08	01	1	406	1.2	2.8	1	2106		3.4
2002	08	02	1	420	3.6	.5	1	1278		4.8
2002	08	03	1	555	3.3	3.4	1	1607		2.9
2002	08	04	1	508	1.0	.8	1	1560		4.2
2002	08	05	1	447	4.9	2.0	1	1079		3.4
2002	08	06	1	2691	12.3	5.8	1	2532		8.8
2002	08	07	1	963	7.1	5.5	1	2322		5.6
2002	08	08	1	556	1.8	4.0	1	2617		5.1
2002	08	09	1	523	3.2	4.0	1	2262		2.8
2002	08	10	1	319	1.9	2.7	1	1876		3.5
2002	08	11	1	297	2.7	1.3	1	1336		3.6
2002	08	12	1	191	1.0	.5	1	2167		3.0
2002	08	13	1	277	1.2	.5	1	1592		2.1
2002	08	14	1	270	2.2	.5	1	727		4.8
2002	08	15	1	318	6.8	1.2	1	550		5.3
2002	08	16	1	289	3.4	.4	1	1706		2.7
2002	08	17	1	843	4.3	2.6	1	1711		2.7
2002	08	18	1	300	3.7	1.0	1	1462		3.6
2002	08	19	1	1194	4.3	2.9	1	1431		2.5
2002	08	20	2	1005	4.2	3.0	1	1453		4.1
2002	08	21	1	588	2.1	3.5	1	1812		2.9
2002	08	22	1	373	6.6	1.6	2	796		3.9
2002	08	23	1	1397		3.1	1	892		3.3
2002	08	24	1	949	8.0	1.5	2	516		3.2
2002	08	25	1	843	7.8	4.4	1	2048		3.8
2002	08	26	1	489	2.1	2.4	1	1685		2.1
2002	08	27	1	522	6.8	3.0	1	1706		2.5
2002	08	28	1	1237	3.6	3.5	1	993		3.8
2002	08	29	2	789	3.0	4.9	2	324		3.9
2002	08	30	1	726	4.0	3.2	1	1187		4.0
2002	08	31	1		1.5	1.5	3			3.9

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	09	01	1	713	4.7	3.8	2	618		3.1
2002	09	02	2	668	2.5	4.2	2	562		4.4
2002	09	03	1	459	1.1	4.3	1	592		2.3
2002	09	04	2	616	4.7	.8	1	1349		4.6
2002	09	05	1	827	8.3	2.7	1	1420		5.0
2002	09	06	1		4.7	4.7	1	1835		2.5
2002	09	07	1	223	1.1	2.1	1	973		2.7
2002	09	08	1	208	.9	1.2	1	706		3.1
2002	09	09	1	99	1.4	1.4	1	1066		1.4
2002	09	10	1	176	3.3	.2	1	503		2.3
2002	09	11	1	414	5.3	2.1	1	110	12.3	12.3
2002	09	12	1		4.6	4.6	1	2372		4.5
2002	09	13	1	175	3.9	1.9	1	2307		4.6
2002	09	14	1	175	3.1	.9	1	595		4.8
2002	09	15	2	493	7.8	2.9	2	337		2.4
2002	09	16	2	1172	3.9	2.2	1	1172		2.8
2002	09	17	1	566	2.1	3.1	1	1507		3.7
2002	09	18	1	339	1.6	3.3	1	1120		2.8
2002	09	19	1	302	3.1	.9	1	833		3.6
2002	09	20	1	419	7.2	.5	1	488		3.9
2002	09	21	1	462	7.2	.2	1	818		4.2
2002	09	22	1	581	1.0	1.4	1	1077		4.3
2002	09	23	1	1210	10.7	4.3	1	1098		5.7
2002	09	24	1	594	2.5	4.1	1	1697		3.7
2002	09	25	1	302	2.6	3.4	1	629		2.9
2002	09	26	2	500	2.4	2.1	2	106	2.9	2.9
2002	09	27	2	677	3.7	3.5	1	677		3.1
2002	09	28	2	1292	11.8	6.3	1	1245		6.8
2002	09	29	1	1023	2.3	2.8	1	1239		1.8
2002	09	30	1	68	.9	.9	1	1428		3.5

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	10	01	1	282		1.2	1	821		3.7
2002	10	02	1	209	3.6	1.3	1	1201		2.4
2002	10	03	1	1517	10.4	3.3	2	1078		5.2

2002	10	04	2	924	9.7	3.7	2	886	2.4
2002	10	05	2	1471	16.0	3.5	1	1471	5.1
2002	10	06	1	438	2.3	2.1	1	1389	4.4
2002	10	07	1	805	16.9	1.5	1	1222	4.2
2002	10	08	1	643	5.8	2.8	1	1632	3.2
2002	10	09	1	479	3.9	2.4	1	1288	4.1
2002	10	10	1	1062	6.8	1.8	2	687	4.0
2002	10	11	2	999	6.4	3.2	2	637	5.1
2002	10	12	2	970	4.7	5.4	2	178	4.2
2002	10	13	1	776	8.6	2.1	1	694	.3
2002	10	14	1	1750	14.5	4.9	1	1750	5.4
2002	10	15	1	623	1.5	3.4	1	1233	2.5
2002	10	16	2	834	5.3	5.1	2	926	6.2
2002	10	17	1	862	10.7	4.4	2	1033	1.7
2002	10	18	1	1518	9.0	3.6	1	1856	4.4
2002	10	19	1	402	9.5	1.3	1	751	3.5
2002	10	20	1		2.1	2.1	1	261	4.6
2002	10	21	1	1234		3.1	1	2045	4.4
2002	10	22	1	105	2.8	2.8	1	1749	2.4
2002	10	23	1	1241	6.6	2.5	1	1241	6.1
2002	10	24	1	343	2.5	3.6	1	1622	1.6
2002	10	25	1	1397	2.2	2.1	1	1301	2.1
2002	10	26	4				1	1152	5.6
2002	10	27	1	1021	12.8	4.8	1	1787	6.1
2002	10	28	1	1676	7.5	2.9	1	1676	4.4
2002	10	29	1	1585	6.9	3.9	1	1585	3.5
2002	10	30	1	1319	4.9	3.7	1	1235	3.0
2002	10	31	1	931	5.4	4.6	1	1082	4.1

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	11	01	1	359	3.5	.9	1	1084		6.4
2002	11	02	1	2043	13.0	3.3	1	2111		4.2
2002	11	03	1	2037	8.9	3.8	1	2247		3.4
2002	11	04	1	1052	8.1	.2	2	1269		1.3
2002	11	05	1	1291	9.2	3.2	1	1318		3.3
2002	11	06	2	883	13.0	4.3	1	738		5.9
2002	11	07	1	2331	18.9	6.2	1	1813		7.3
2002	11	08	1	493	7.5	2.4	1	1060		4.5
2002	11	09	1		1.2	1.2	1	332		3.7
2002	11	10	1	169	5.9	1.0	1	564		4.3
2002	11	11	1	489	12.4	3.9	3			2.2
2002	11	12	1	1049	4.0	1.8	2	189		3.2
2002	11	13	2	1300	4.1	4.6	1	113	6.2	6.2

2002	11	14	1		1.8	1.8	1	1583	2.8
2002	11	15	1	231	4.4	1.3	1	664	2.8
2002	11	16	1	1215	6.1	4.4	2	798	5.5
2002	11	17	2	892	8.7	6.4	2	464	3.5
2002	11	18	2	1483	19.5	7.9	1	1483	9.9
2002	11	19	1	24	1.6	1.6	2	1214	3.9
2002	11	20	1	209	2.1	1.3	1	1079	1.5
2002	11	21	1	166	3.1	.2	2	562	1.7
2002	11	22	2	809	5.9	1.8	2	342	2.5
2002	11	23	1	1253	23.6	9.6	1	1063	11.7
2002	11	24	1	1010	15.8	3.3	1	1701	7.1
2002	11	25	1	664	3.3	.2	1	1576	3.7
2002	11	26	1	1814	8.8	2.7	1	1814	3.4
2002	11	27	2	1483	4.3	2.9	1	645	6.6
2002	11	28	1	1667	8.9	3.1	1	1925	4.7
2002	11	29	1	846	8.0	2.6	1	1136	4.0
2002	11	30	1	335	7.6	2.2	1	335	2.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2002	12	01	1	2176	18.6	8.2	1	1534		10.1
2002	12	02	1	1351	13.4	3.2	1	1245		2.1
2002	12	03	1	2244	14.8	7.6	1	1914		7.8
2002	12	04	1	968	13.0	3.9	1	1026		3.4
2002	12	05	2	1265	2.5	1.2	2	409		5.0
2002	12	06	1	1173	5.0	3.8	1	1016		5.0
2002	12	07	1	292	6.6	2.2	1	789		3.7
2002	12	08	1	79	1.7	1.7	1	1552		5.4
2002	12	09	1	1187	8.3	4.6	1	1187		.6
2002	12	10	1	331	3.6	1.7	1	656		1.9
2002	12	11	1	366	1.8	3.4	2	395		4.3
2002	12	12	2	938	8.6	6.8	1	1213		4.3
2002	12	13	1	87	1.7	1.7	2	87	2.1	2.1
2002	12	14	2	866	9.5	6.6	2	318		2.2
2002	12	15	1	1472	17.3	8.5	1	1331		5.8
2002	12	16	2	1364	3.1	1.8	2	320		7.4
2002	12	17	1	1107	9.1	6.0	1	1081		6.8
2002	12	18	1	517	4.2	4.1	1	645		1.9
2002	12	19	1	383	2.6	2.1	1	479		3.6
2002	12	20	2	194	8.3	1.8	2	424		4.3
2002	12	21	1	1787	8.7	2.9	1	1245		6.5
2002	12	22	1	1373		2.7	1	1495		2.4
2002	12	23	1	2273	12.0	5.6	1	1289		4.0
2002	12	24	1	1969	15.9	7.2	1	1762		4.3

2002	12	25	2	989	6.9	4.8	2	762	7.5
2002	12	26	2	1325	17.8	8.3	1	1270	9.2
2002	12	27	1	562	4.0	2.7	1	1216	2.7
2002	12	28	1	1174	9.7	3.2	1	1145	5.1
2002	12	29	1	748	8.3	2.1	1	1236	5.5
2002	12	30	1	1128	7.8	2.1	1	1128	1.8
2002	12	31	2	437	9.9	1.3	1	464	1.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	01	01	1	992	10.7	1.5	3			3.8
2003	01	02	2	626	6.2	5.8	1	5	4.6	4.6
2003	01	03	2	1099	6.3	4.7	2	664		5.7
2003	01	04	2	1260	10.0	5.4	1	649		4.4
2003	01	05	1	1085	5.2	.0	2	1085		.0
2003	01	06	2	1357	1.8	.0	2	584		2.1
2003	01	07	2	1710	8.5	5.1	1	227		7.4
2003	01	08	2	587	6.6	3.0	1	1041		7.0
2003	01	09	1	1218	17.4	4.8	1	988		5.2
2003	01	10	1	1810	11.3	4.9	1	728		7.9
2003	01	11	1	1876	20.9	6.8	1	1876		7.0
2003	01	12	1	1219		6.6	1	1535		8.0
2003	01	13	1	881	8.1	1.8	1	1223		5.6
2003	01	14	1	1414	17.9	6.8	3			6.0
2003	01	15	1	1853	6.6	4.6	1	1853		5.0
2003	01	16	1	1511	16.5	5.0	1	1511		3.9
2003	01	17	2	1203	3.0	2.9	1	1332		5.5
2003	01	18	1	855	5.1	4.3	1	976		2.0
2003	01	19	1	498	3.5	1.8	1	1354		5.5
2003	01	20	1	3184	13.8	3.4	2	1338		10.4
2003	01	21	1	815	2.1	4.2	1	815		7.1
2003	01	22	1	1493	18.9	6.7	1	1493		9.0
2003	01	23	1	1279	14.2	7.3	1	1384		7.1
2003	01	24	1	844	11.6	8.5	1	1091		8.6
2003	01	25	1	1248	5.6	3.8	1	1451		3.2
2003	01	26	1	1351	7.6	1.1	2	1155		.4
2003	01	27	2	1636	9.4	6.8	1	1141		7.7
2003	01	28	4				4			
2003	01	29	2	821	4.4	.0	2	821		.9
2003	01	30	1	929	1.5	2.5	1	955		2.5
2003	01	31	1	958	3.9	2.9	1	835		2.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	02	01	1	752	4.0	1.6	1	308		3.5
2003	02	02	1	924	4.0	6.5	1	820		12.3
2003	02	03	1	1176	9.9	5.6	1	1236		3.1
2003	02	04	2	678	16.6	3.4	2	597		4.9
2003	02	05	1	1984	15.7	5.7	1	1866		7.9
2003	02	06	1	1604	7.6	3.4	1	1644		3.1
2003	02	07	2	1010	4.4	.6	2	510		5.2
2003	02	08	1	445	3.5	3.1	1	1675		4.2
2003	02	09	1	900	5.9	2.2	1	1551		5.2
2003	02	10	1	2473	10.1	1.0	2	1771		1.5
2003	02	11	1	1631	16.7	9.7	1	1631		4.5
2003	02	12	1	604	12.8	1.2	1	604		10.1
2003	02	13	1	2184	14.9	2.7	1	2374		10.0
2003	02	14	1	1745	9.1	4.5	1	2312		5.5
2003	02	15	1	1353	13.0	2.6	1	1298		6.5
2003	02	16	1	863	6.1	5.6	1	802		4.4
2003	02	17	2	892	6.3	6.3	4			
2003	02	18	2	796	3.7	3.7	2	796		3.3
2003	02	19	1	145	2.1	2.1	1	1024		3.3
2003	02	20	1	938	11.8	2.4	1	1448		3.3
2003	02	21	1	27	2.3	2.3	1	782		1.3
2003	02	22	2	551	3.3	.7	2	359		5.1
2003	02	23	2	500	13.5	3.4	1	377		6.7
2003	02	24	1	970	10.0	7.8	1	970		1.7
2003	02	25	1	2657	15.3	5.6	1	2305		7.3
2003	02	26	1	1198	3.7	2.8	1	1198		2.1
2003	02	27	1	900	.6	2.3	1	1157		2.2
2003	02	28	1	1108	1.5	3.5	1	1108		2.6

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	03	01	1	1304	3.2	.7	1	713		3.6
2003	03	02	2	811	10.8	2.6	2	583		3.0
2003	03	03	1	1588	15.9	10.4	1	1588		6.8
2003	03	04	1	1288	7.5	.6	1	2188		5.3
2003	03	05	2	406	9.0	.4	1	420		1.8
2003	03	06	2	1385	10.0	4.3	2	591		5.6
2003	03	07	1	160	.4	1.6	1	905		3.6
2003	03	08	1	186	3.4	1.0	1	1377		3.3
2003	03	09	1	966	15.7	2.8	1	879		8.8
2003	03	10	1	2245	11.5	5.7	1	2282		7.9
2003	03	11	1	1105	5.7	.8	1	1634		4.9
2003	03	12	1	243	4.4	2.1	1	1355		3.7
2003	03	13	1	1370	7.6	2.1	2	1195		3.2
2003	03	14	1	1240	10.2	6.2	1	1670		4.2
2003	03	15	1	404	4.2	1.7	1	842		4.0
2003	03	16	1	138	1.2	1.2	1	1049		3.9
2003	03	17	1	123	1.3	1.3	1	890		2.9
2003	03	18	1	667	8.8	4.9	1	1131		4.5
2003	03	19	1	971	2.9	2.7	1	1146		4.1
2003	03	20	1	742	10.7	2.4	2	672		4.4
2003	03	21	1	783	3.5	1.8	1	1057		3.0
2003	03	22	1	941	7.9	4.7	1	1430		4.8
2003	03	23	1	1851	12.3	4.4	1	1979		6.2
2003	03	24	1	600	.4	2.2	1	1526		3.7
2003	03	25	1		1.2	1.2	3			6.2
2003	03	26	1	267	3.8	1.5	2	1099		2.0
2003	03	27	1	367	4.4	2.3	1	1920		4.4
2003	03	28	1	271	4.3	.4	1	901		6.9
2003	03	29	1	452	13.8	1.8	2	883		6.9
2003	03	30	2	1642	7.5	7.6	3			7.3
2003	03	31	1	2157	13.3	7.1	1	2157		9.4

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	04	01	1	1493	8.0	5.6	2	1493		3.8
2003	04	02	1	725	3.4	.6	1	1079		3.6
2003	04	03	1	783	2.5	2.5	1	992		3.7
2003	04	04	1	962	3.4	4.0	1	445		4.6

2003	04	05	4				4			
2003	04	06	4				4			
2003	04	07	1	1434	9.8	2.7	4			
2003	04	08	2	994	6.5	4.1	1	913		3.0
2003	04	09	2	825	1.1	2.5	2	540		4.0
2003	04	10	1	981	3.9	3.5	1	1046		4.6
2003	04	11	2	882	4.6	4.6	2	882		5.4
2003	04	12	2	744	7.1	5.6	1	1497		6.6
2003	04	13	1	1500	8.2	4.0	1	1836		4.7
2003	04	14	1	719	.8	3.7	1	1183		4.5
2003	04	15	1	255	6.9	2.7	1	1051		4.5
2003	04	16	1	153	4.1	3.5	1	2238		5.8
2003	04	17	1	1441	4.8	4.6	1	1122		5.3
2003	04	18	1	822	9.1	4.0	1	895		5.0
2003	04	19	1	385	3.7	3.4	1	660		4.0
2003	04	20	1		2.1	2.1	1	789		4.6
2003	04	21	1		1.4	1.4	1	551		4.6
2003	04	22	2	535	5.7	2.7	1	362		2.3
2003	04	23	1	1595	12.0	7.3	1	1149		8.9
2003	04	24	1	1432	13.4	7.4	1	1768		8.7
2003	04	25	1	586	2.8	1.4	1	2408		5.4
2003	04	26	2	750	8.0	3.9	2	493		5.9
2003	04	27	1	858	8.5	4.7	1	2187		5.0
2003	04	28	1	164	2.5	2.1	1	1678		5.2
2003	04	29	1	229	4.2	2.2	1	1365		5.9
2003	04	30	1	1355	2.3	3.1	1	1710		3.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	05	01	2	553	11.3	2.6	1	866		4.1
2003	05	02	1	366	3.7	2.6	1	1057		4.9
2003	05	03	1	1398	12.1	5.9	1	1803		5.3
2003	05	04	1	389	1.8	1.3	1	1656		2.8
2003	05	05	1	72	1.0	1.0	2	295		4.4
2003	05	06	2	841	9.2	3.0	1	938		1.3
2003	05	07	1	258	1.6	.6	1	2227		3.5
2003	05	08	2	1359	1.4	2.6	1	386		3.1
2003	05	09	1	808	5.4	1.5	1	1736		3.2
2003	05	10	1	479	1.8	.5	1	1814		2.7
2003	05	11	1	389	2.5	2.0	2	226		4.4
2003	05	12	1	425	5.0	2.0	1	865		5.5
2003	05	13	1	1615	16.3	4.7	2	1202		5.9
2003	05	14	1	1389	11.8	4.3	1	2204		4.7
2003	05	15	1	379	2.1	2.3	1	1566		4.4

2003	05	16	1	1272	7.3	5.5	1	1349		7.5
2003	05	17	1	958	3.3	3.5	1	982		4.1
2003	05	18	1	231	1.5	3.1	1	912		5.1
2003	05	19	1	120	2.0	2.0	1	979		3.1
2003	05	20	1	116	1.8	1.8	1	1066		3.8
2003	05	21	2	726	4.6	1.1	2	548		2.9
2003	05	22	1	1263	4.8	3.5	1	349		3.8
2003	05	23	1	909	2.9	2.7	2	219		2.7
2003	05	24	2	699	4.8	3.9	2	510		3.0
2003	05	25	1	695	.9	1.8	1	508		2.7
2003	05	26	2	479	2.1	3.7	2	53	4.6	4.6
2003	05	27	1	41	1.6	1.6	1	1245		3.2
2003	05	28	2	573	1.0	.7	2	1303		3.2
2003	05	29	1	740	7.4	2.0	1	2037		3.8
2003	05	30	1	770	6.8	3.0	1	2083		3.8
2003	05	31	1	895	1.2	1.8	2	661		3.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	06	01	2	790	7.2	5.2	2	660		7.2
2003	06	02	1	589	8.1	3.9	1	2652		6.2
2003	06	03	1	329	1.4	2.1	2	2021		3.0
2003	06	04	2	351	3.4	3.0	2	36	4.2	4.2
2003	06	05	2	989	2.0	1.6	1	1233		2.8
2003	06	06	1	842	7.8	2.6	1	1920		3.7
2003	06	07	1	241	1.7	1.2	2	186		3.3
2003	06	08	1	965	1.4	2.7	1	665		2.5
2003	06	09	1	758	10.1	2.4	1	1501		2.8
2003	06	10	1	1085	9.9	4.8	1	1421		3.6
2003	06	11	1	273	9.1	1.5	1	490		2.0
2003	06	12	2	994	5.3	1.7	2	994		2.7
2003	06	13	2	560	4.2	3.7	3			3.8
2003	06	14	1	646	9.0	.5	2	1446		2.3
2003	06	15	1	286	3.1	3.0	1	1976		3.4
2003	06	16	1	1019	2.7	3.4	1	1259		4.2
2003	06	17	1	549	2.6	.9	1	720		3.3
2003	06	18	2		1.9	1.9	3			1.3
2003	06	19	1	1269	1.9	.2	1	1269		2.3
2003	06	20	1	1400	5.5	3.5	1	1081		2.9
2003	06	21	1	460	2.3	2.1	2	228		2.2
2003	06	22	1	414	2.4	3.3	2	375		3.9
2003	06	23	1	128	1.5	1.5	1	1269		3.5
2003	06	24	1	189	2.4	1.6	1	1552		3.5
2003	06	25	1	274	2.6	3.8	1	2026		3.7

2003	06	26	1	263	2.3	3.0	1	1818	3.2
2003	06	27	1	348	3.2	.8	1	1717	3.4
2003	06	28	1	677	4.1	3.7	1	1998	2.1
2003	06	29	1	295	3.4	.6	1	1403	5.0
2003	06	30	1	354	3.1	.7	1	1280	3.5

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	07	01	1	381	2.3	2.6	1	1916		2.9
2003	07	02	1	340	1.6	1.3	1	1701		3.1
2003	07	03	1	279	2.9	1.0	1	279		3.3
2003	07	04	1	343	2.4	.7	1	2324		3.5
2003	07	05	1	902	6.0	1.9	1	1425		4.2
2003	07	06	1	1589	7.5	4.0	1	2280		4.4
2003	07	07	1	523	1.2	1.8	2	843		3.0
2003	07	08	1	1067	7.5	2.2	1	1833		3.4
2003	07	09	1	903	7.9	1.3	2	96	4.3	4.3
2003	07	10	1	418	3.1	2.1	2	418		4.4
2003	07	11	1	632	5.6	3.2	1	1007		1.8
2003	07	12	1	312	3.9	1.6	1	2465		4.5
2003	07	13	1	1272	7.6	1.8	1	1708		4.9
2003	07	14	1	346	1.4	.6	1	661		2.8
2003	07	15	1	253	1.9	.9	1	1793		3.3
2003	07	16	1	505	10.7	3.2	1	1205		3.9
2003	07	17	1	674	9.7	1.3	1	1696		3.3
2003	07	18	1	334	3.4	.7	1	334		1.1
2003	07	19	1	468	2.7	3.2	1	2328		2.6
2003	07	20	1	264	1.0	1.7	1	2275		4.0
2003	07	21	1	318	7.0	1.0	1	884		5.3
2003	07	22	2	924	6.8	1.6	2	1330		2.6
2003	07	23	2	1049	5.9	1.3	1	1049		3.0
2003	07	24	1	1094	6.7	2.3	1	1094		4.1
2003	07	25	1	893	6.8	1.5	1	2088		3.5
2003	07	26	1	184	2.6	1.6	1	2157		3.7
2003	07	27	1	1395	13.3	2.6	1	1732		4.9
2003	07	28	2	2119	11.1	4.1	1	2119		4.9
2003	07	29	2	733	2.5	3.2	1	2312		3.2
2003	07	30	1	347	.7	.7	1	1354		3.6
2003	07	31	1	344	1.3	2.2	1	558		3.9

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	08	01	2	956	4.6	2.6	2	956		3.1
2003	08	02	1	1052	3.3	1.0	1	1182		4.0
2003	08	03	1	671	3.4	1.6	1	727		5.2
2003	08	04	2	672	7.1	2.4	1	672		3.7
2003	08	05	1	814	3.2	2.1	2	499		4.5
2003	08	06	1	1290	4.5	1.0	1	1446		4.7
2003	08	07	1	969	2.5	.5	2	969		1.9
2003	08	08	2	926	.8	2.7	2	402		1.6
2003	08	09	1	590	1.3	1.0	2	590		3.9
2003	08	10	2	1119	3.7	2.6	1	873		4.0
2003	08	11	1	751	.9	1.6	1	905		3.7
2003	08	12	1	830	.7	.9	1	1075		2.1
2003	08	13	1	880	4.6	.6	1	1498		2.1
2003	08	14	1	573	4.9	3.0	1	1766		3.6
2003	08	15	1	418	4.5	3.7	1	1057		2.8
2003	08	16	1	675	3.9	2.1	1	2079		2.8
2003	08	17	1	754	6.1	2.7	2	754		3.7
2003	08	18	1	647	3.3	2.4	1	1100		2.6
2003	08	19	1	599	3.7	1.2	1	1639		2.1
2003	08	20	1	487	3.3	2.8	1	1311		3.4
2003	08	21	1	652	1.8	1.9	1	1709		2.7
2003	08	22	1	653	4.9	1.8	1	1145		3.5
2003	08	23	1	634	6.1	3.9	1	2171		5.9
2003	08	24	1	957	8.3	3.5	1	1776		4.5
2003	08	25	1	563	4.5	1.6	1	1857		3.8
2003	08	26	1	651	1.9	2.3	1	1755		2.8
2003	08	27	1	780	13.7	3.1	1	1310		3.6
2003	08	28	1		2.9	2.9	3			2.4
2003	08	29	1	454	7.0	1.1	1	750		4.5
2003	08	30	1	1767	9.7	2.6	2	1767		4.7
2003	08	31	1	1127	3.7	3.1	1	1436		2.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	09	01	2	1449	3.8	.6	2	119	3.0	3.0
2003	09	02	2	875	6.0	4.4	2	569		3.4
2003	09	03	2	1057	6.1	2.4	2	346		4.1
2003	09	04	1	1154	10.9	2.0	2	898		1.8
2003	09	05	1		4.5	4.5	1	443		4.1
2003	09	06	1	675	1.8	3.7	1	1408		3.3
2003	09	07	1	303	3.1	2.7	1	1309		3.1
2003	09	08	1	1488	5.3	3.2	1	1526		2.3
2003	09	09	1	1413	3.0	2.7	1	1498		5.2
2003	09	10	1	294	2.1	2.0	1	1683		4.2
2003	09	11	1	410	3.2	3.4	1	692		3.8
2003	09	12	1	475	2.2	2.4	1	475		5.1
2003	09	13	1	641	4.9	4.4	2	438		4.1
2003	09	14	1	552	3.2	2.7	2	684		4.6
2003	09	15	1	365	7.2	2.9	3			2.9
2003	09	16	2	1206	8.9	3.0	1	1206		3.6
2003	09	17	1	339	2.2	2.9	1	1755		3.4
2003	09	18	1		3.7	3.7	3			4.2
2003	09	19	2	791	15.9	7.2	1	1125		8.9
2003	09	20	1	704	3.3	1.2	1	1438		3.2
2003	09	21	1	418	2.5	1.5	1	1476		3.3
2003	09	22	1	429	4.1	1.2	1	772		4.8
2003	09	23	2	1104	11.7	7.2	2	743		3.7
2003	09	24	1	491	2.1	1.7	1	1696		3.2
2003	09	25	1	603	7.0	1.1	1	843		3.3
2003	09	26	1	1319	2.4	2.5	1	1168		.4
2003	09	27	1	668	9.1	2.9	1	750		4.2
2003	09	28	2	1076	11.2	3.8	2	162		4.4
2003	09	29	1	950	5.6	2.8	2	1385		2.7
2003	09	30	1	1314	8.0	3.3	1	1819		2.6

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

				MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	10	01	1	660	2.4	1.5	1	1400		2.0
2003	10	02	1	1338	5.9	1.9	1	1585		5.7
2003	10	03	1	842	6.0	3.4	1	1579		3.7
2003	10	04	1	655	14.7	1.4	2	1040		2.3

2003	10	05	1	1652	8.2	1.7	1	2462	4.2
2003	10	06	1	542	4.4	2.3	1	2166	3.7
2003	10	07	1	204	.5	1.6	1	1804	3.3
2003	10	08	1	323	2.3	.9	1	1447	2.5
2003	10	09	1	152	1.4	1.9	1	899	.8
2003	10	10	1	313	1.0	3.4	1	225	3.2
2003	10	11	1	309	2.5	3.6	1	846	3.9
2003	10	12	1	269	2.0	3.8	2	269	5.4
2003	10	13	1	519	6.0	2.8	1	1483	4.0
2003	10	14	1	180	1.4	1.4	1	687	5.5
2003	10	15	2	1012	9.8	5.0	1	1012	9.9
2003	10	16	1	1533	10.8	3.0	1	2852	5.7
2003	10	17	1	1806	6.0	1.6	2	1806	.8
2003	10	18	2	547	2.2	.9	1	2219	4.2
2003	10	19	1	1341	2.9	.8	1	950	5.0
2003	10	20	1		2.6	2.6	1	2152	2.4
2003	10	21	1	427	11.9	1.2	1	1022	2.9
2003	10	22	1	1459	6.6	3.5	1	1042	6.1
2003	10	23	2	1955	10.3	5.0	1	1955	7.7
2003	10	24	1	2140	11.8	3.5	1	2313	6.7
2003	10	25	1	283	7.3	.9	1	1393	4.6
2003	10	26	1	784	8.3	2.8	1	692	4.8
2003	10	27	2	1200	8.6	2.9	2	309	4.7
2003	10	28	1	1349	4.1	3.3	1	1463	2.8
2003	10	29	2	1039	5.2	4.7	2	881	3.6
2003	10	30	1	380	3.7	2.0	1	1958	3.1
2003	10	31	1	196	3.3	.8	1	453	3.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
			MXG	WIND	WIND		MXG	WIND	WIND
YEAR	MO	DAY	T	HGT	LYR	SFC	T	HGT	LYR	SFC
2003	11	01	1	207	4.0	1.9	1	742	1.8
2003	11	02	1	1266	9.4	1.6	1	1279	2.7
2003	11	03	1	347	3.3	.0	1	1806	2.2
2003	11	04	1	1011	5.3	2.1	2	741	5.5
2003	11	05	2	623	11.8	3.7	4		
2003	11	06	1	373	3.2	3.3	2	159	2.8
2003	11	07	1	1253	6.7	3.3	1	1253	3.8
2003	11	08	1	2384	18.6	4.5	1	2286	6.8
2003	11	09	1	1540	10.3	3.7	1	1780	3.5
2003	11	10	1	500	3.0	.6	1	1034	1.7
2003	11	11	1		.9	.9	2	733	2.6
2003	11	12	2	343	1.6	1.3	1	343	1.3
2003	11	13	1	2060	15.4	5.9	3		11.3
2003	11	14	1	2026	24.0	13.2	1	2026	10.7

2003	11	15	1	1295	15.3	8.8	1	1362		8.0
2003	11	16	1	279	1.3	.2	1	1191		.7
2003	11	17	1	920	2.9	2.3	1	473		2.3
2003	11	18	1	1040	4.9	.7	1	593		2.3
2003	11	19	2	791	15.9	4.3	2	884		7.4
2003	11	20	2	1491	14.3	7.6	1	604		8.6
2003	11	21	1	566	4.2	3.5	1	821		4.3
2003	11	22	1	856	5.5	5.9	1	927		2.6
2003	11	23	1	321	4.1	1.5	1	516		1.6
2003	11	24	1	453	9.7	1.9	1	619		5.5
2003	11	25	2	1691	10.7	7.5	1	1650		4.9
2003	11	26	1	419	6.7	.4	1	546		2.7
2003	11	27	1	265	.6	.0	1	788		.7
2003	11	28	1	787	4.7	.4	2	960		2.9
2003	11	29	2	1801	20.9	7.4	1	1406		9.6
2003	11	30	1	1735	13.0	3.6	1	1815		4.5

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2003	12	01	1	1722	13.9	3.4	1	122	9.1	9.1
2003	12	02	1	3203		4.8	2	1230		10.5
2003	12	03	1	1261	10.6	3.5	1	1562		5.6
2003	12	04	1	354	4.1	2.9	1	1227		3.9
2003	12	05	1	973	2.5	3.0	2	720		3.6
2003	12	06	2	1123	10.6	6.6	4			
2003	12	07	2	1090	13.7	9.7	1	1007		9.1
2003	12	08	1	1148	10.5	5.2	1	1172		5.9
2003	12	09	1	604	1.2	2.4	1	604		.8
2003	12	10	1	714	4.1	.8	1	819		3.6
2003	12	11	2	852	15.4	6.2	2	707		5.2
2003	12	12	1	2091	15.3	9.3	1	1834		6.2
2003	12	13	1	2386	14.9	4.6	1	2030		5.1
2003	12	14	1	918	63.1	3.3	4			
2003	12	15	2	1094	11.5	8.2	1	1094		11.6
2003	12	16	1	967	18.7	2.8	1	1954		1.1
2003	12	17	2	382	9.2	1.5	2	751		4.3
2003	12	18	1	1473	15.7	5.6	1	622		4.4
2003	12	19	1	983	8.5	3.5	1	917		3.4
2003	12	20	1	1148	6.5	2.1	1	1148		5.5
2003	12	21	1	738	4.6	3.7	1	1080		3.9
2003	12	22	1	229	3.8	2.3	1	1381		3.1
2003	12	23	1	171	1.9	.7	1	233		3.8
2003	12	24	2	495	10.4	2.0	2	550		5.9
2003	12	25	1	1476	4.7	4.1	1	534		4.8

2003	12	26	1	1430	18.6	4.1	1	1430	7.9
2003	12	27	1	730	13.9	7.4	1	820	6.3
2003	12	28	1	271	.2	2.3	1	566	1.1
2003	12	29	1	88	.9	.9	1	398	2.7
2003	12	30	1	349	11.4	1.4	1	379	8.4
2003	12	31	1	1579	13.6	5.3	1	1579	2.9

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

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TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	01	01	1	1860	16.5	5.7	1	1763		5.6
2004	01	02	1	683	6.3	1.7	1	1001		1.8
2004	01	03	1	520	14.0	2.2	1	775		1.0
2004	01	04	2	1077	11.1	2.1	2	422		3.6
2004	01	05	2	1214	5.4	3.7	2	750		3.1
2004	01	06	1	1628	12.6	7.0	1	1456		5.3
2004	01	07	1	2347	13.5	6.3	1	1988		7.2
2004	01	08	1	2837	19.1	3.7	1	2837		6.1
2004	01	09	1	1559	12.0	4.1	1	1482		7.5
2004	01	10	1	963	7.3	6.2	1	1060		6.1
2004	01	11	1	466	2.4	2.5	1	1464		3.2
2004	01	12	2	380	3.8	1.5	1	757		2.6
2004	01	13	1	1250	10.2	1.6	1	1250		7.4
2004	01	14	1	1610	12.8	6.5	2	1443		3.4
2004	01	15	2	1101	6.6	4.7	1	986		6.7
2004	01	16	1	1342	22.7	11.8	1	1420		11.8
2004	01	17	1	839	17.8	8.0	1	982		4.5
2004	01	18	2	545	8.8	2.2	2	422		1.4
2004	01	19	1	1676	15.6	8.0	1	1383		10.6
2004	01	20	1	1152	18.9	7.8	1	1102		10.5
2004	01	21	1	846	15.5	6.5	1	936		4.2
2004	01	22	1	792	6.6	2.1	2	1460		2.1
2004	01	23	1	2123	13.0	6.4	1	1579		7.8
2004	01	24	1	1408	12.3	2.0	1	1774		7.4
2004	01	25	1	1335	12.0	7.0	1	1531		3.6
2004	01	26	1	922	5.3	3.6	1	922		2.4
2004	01	27	1	728	4.2	3.4	1	684		3.9
2004	01	28	2	552	6.5	3.6	2	676		8.5
2004	01	29	1	1787	14.7	4.2	1	1394		9.0
2004	01	30	1	1249	14.3	5.2	1	1453		7.2
2004	01	31	1	1325	20.1	4.3	1	1700		8.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

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TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	02	01	1	310	6.3	2.0	1	1203		6.5
2004	02	02	1	528	3.1	3.4	1	843		2.3
2004	02	03	1	195	5.9	1.3	2	535		5.9
2004	02	04	1	1775	12.5	5.8	1	821		9.5
2004	02	05	1	1121	11.9	4.6	1	1220		3.7
2004	02	06	2	820	8.3	2.9	2	820		3.4
2004	02	07	2	983	7.7	2.8	1	652		5.6
2004	02	08	1	1519	18.1	8.8	1	1720		8.3
2004	02	09	1	220	4.1	2.0	1	986		4.0
2004	02	10	1	1784	8.7	2.4	1	2116		4.0
2004	02	11	1	2467	12.4	4.8	1	1572		7.3
2004	02	12	1	834	4.3	.3	1	1222		2.7
2004	02	13	1	1829	10.3	2.8	1	1829		5.4
2004	02	14	1	1470	12.0	3.3	1	1470		5.0
2004	02	15	2	1726	13.0	4.4	1	1500		6.2
2004	02	16	1	942	5.9	6.5	1	1235		4.7
2004	02	17	1	686	3.3	2.4	1	938		3.9
2004	02	18	1	1078	4.7	3.6	1	1290		7.2
2004	02	19	1	848	7.8	3.9	1	1515		9.2
2004	02	20	1	291	1.6	.5	1	996		3.0
2004	02	21	1	635	8.6	2.3	1	750		4.8
2004	02	22	1	1449	14.7	7.7	1	1267		9.4
2004	02	23	1	773	7.9	3.2	1	1523		4.1
2004	02	24	1	841	2.9	2.2	2	675		3.2
2004	02	25	1	913	8.3	6.3	1	1221		8.0
2004	02	26	1	695	5.8	1.5	1	1134		5.1
2004	02	27	1	851	10.3	5.5	1	1157		6.7
2004	02	28	1	420	5.9	3.4	1	1370		5.7
2004	02	29	1	535	3.9	3.5	1	1214		3.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	03	01	1	132	1.5	1.5	1	1448		2.4
2004	03	02	2	202	6.9	.4	1	555		3.7
2004	03	03	1	1628	16.4	6.8	1	1744		8.3
2004	03	04	2	992	4.2	.5	1	810		1.5
2004	03	05	1	977	10.4	1.8	1	302		3.2
2004	03	06	2	205	5.3	2.7	1	323		3.4
2004	03	07	1	1665	11.8	7.2	1	1834		2.5
2004	03	08	2	1237	6.3	2.8	2	542		1.6
2004	03	09	2	1687	2.7	.4	2	1256		2.1
2004	03	10	1	1606	1.4	3.2	1	1901		5.1
2004	03	11	1	894	4.4	6.8	1	1519		4.1
2004	03	12	1	1595	5.7	2.7	1	69	10.3	10.3
2004	03	13	1	1771	12.9	9.6	1	1842		9.6
2004	03	14	1	812	2.6	2.5	1	902		5.1
2004	03	15	1	2016	15.7	2.4	1	2074		4.7
2004	03	16	1	1342	5.0	2.4	2	235		4.0
2004	03	17	2	1384	7.3	3.7	2	971		1.9
2004	03	18	2	1280	4.5	1.2	1	1280		1.9
2004	03	19	2	1744	2.2	3.0	2	1744		4.2
2004	03	20	1	239	.9	1.7	2	959		4.9
2004	03	21	2	1235	19.8	2.1	1	1169		10.0
2004	03	22	1	2047	12.1	8.9	1	2047		8.0
2004	03	23	1	418	4.4	.9	1	2508		5.1
2004	03	24	1	820	5.6	1.3	1	2665		4.4
2004	03	25	2	470	9.8	2.8	3			2.7
2004	03	26	1	318	5.6	.3	1	425		3.4
2004	03	27	2	369	2.3	.7	1	1314		5.9
2004	03	28	1	1113	7.4	5.1	1	1113		4.9
2004	03	29	1	384	3.7	3.2	1	739		4.5
2004	03	30	1	588	7.3	3.5	1	559		3.7
2004	03	31	2	519	8.8	3.5	3			4.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	04	01	2	719	4.0	4.2	2	569		4.5
2004	04	02	1	1133	6.7	3.1	1	897		4.5
2004	04	03	1	779	1.5	2.5	1	966		2.3
2004	04	04	2	967	3.6	1.4	2	692		4.8

2004	04	05	1	1393	14.2	8.9	1	1419	10.3
2004	04	06	1	1049	18.3	8.8	1	2255	8.8
2004	04	07	1	1340	5.5	.4	1	2403	5.0
2004	04	08	1	853	5.2	1.7	2	1750	3.9
2004	04	09	1	729	6.4	2.0	1	1914	7.7
2004	04	10	1	1667	8.7	3.0	1	2444	5.3
2004	04	11	1	1627	7.0	2.6	1	1460	1.9
2004	04	12	1	796	2.7	2.1	2	1123	3.8
2004	04	13	2	935	5.4	5.5	2	1133	5.2
2004	04	14	2	484	5.5	2.7	2	421	2.5
2004	04	15	2	1453	14.7	8.2	1	1764	9.4
2004	04	16	1	963	10.4	7.1	1	1814	5.1
2004	04	17	1	265	5.3	.9	1	1015	4.3
2004	04	18	1		1.1	1.1	3		5.3
2004	04	19	1	266	6.9	.5	1	829	5.2
2004	04	20	1	2135	11.8	6.3	1	2139	1.7
2004	04	21	1	480	10.7	2.9	1	577	6.7
2004	04	22	2	320	6.5	.7	1	2054	4.1
2004	04	23	2	1588	3.9	2.6	1	613	4.1
2004	04	24	2	684	9.9	2.1	1	2349	7.5
2004	04	25	1	1131	4.1	3.6	1	1131	3.7
2004	04	26	2	650	9.8	3.2	2	689	.5
2004	04	27	2	854	6.1	3.0	1	2309	4.7
2004	04	28	1	1895	9.9	6.0	1	2263	6.9
2004	04	29	1	351	6.0	1.8	1	1003	4.7
2004	04	30	1	305	4.8	2.2	1	562	4.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	05	01	1		1.5	1.5	1	621		4.9
2004	05	02	1		3.0	3.0	3			4.4
2004	05	03	1	1221	8.7	2.5	2	960		5.5
2004	05	04	2	1622	13.3	7.1	1	2292		7.6
2004	05	05	1	219	6.1	1.3	1	1438		3.4
2004	05	06	1	830	3.5	3.2	1	1885		3.0
2004	05	07	2	302	3.1	3.2	1	1828		5.5
2004	05	08	1	1209	7.7	3.1	1	1195		3.6
2004	05	09	2	567	4.9	1.6	1	1139		2.1
2004	05	10	1	335	4.8	1.1	1	771		4.6
2004	05	11	1	329	4.1	2.3	1	2167		3.3
2004	05	12	1	398	.9	.3	2	2140		2.4
2004	05	13	1	272	1.3	.9	1	547		5.2
2004	05	14	1	424	4.0	2.5	1	476		2.8
2004	05	15	1	195	5.3	.3	1	1319		4.2

2004	05	16	2	1435	5.6	3.3	1	1684	3.6
2004	05	17	1	702	2.4	1.4	1	959	4.1
2004	05	18	1	435	8.4	1.6	1	939	2.7
2004	05	19	2	1577	8.3	.0	2	979	3.2
2004	05	20	1	471	3.6	1.0	1	652	4.8
2004	05	21	1	357	2.0	1.0	1	1294	2.4
2004	05	22	1	666	4.0	1.6	1	1266	3.2
2004	05	23	1	267	4.1	1.7	1	1804	3.0
2004	05	24	1		2.9	2.9	1	434	3.4
2004	05	25	1	673	7.0	1.5	1	1605	3.6
2004	05	26	2	655	12.7	4.2	2	600	2.4
2004	05	27	2	707	1.8	1.8	1	1889	3.0
2004	05	28	2	372	4.4	2.7	1	582	1.6
2004	05	29	1	2024	13.6	5.2	1	2075	6.9
2004	05	30	1	288	6.1	3.0	1	2505	3.9
2004	05	31	1	647	2.7	3.4	2	503	3.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	06	01	2	719	9.6	2.7	1	912		3.6
2004	06	02	1	425	6.2	1.0	2	1424		3.1
2004	06	03	1	1840	4.7	3.0	1	2587		5.8
2004	06	04	1	948	3.6	2.3	1	1602		3.1
2004	06	05	1	292	2.3	2.1	1	292		3.8
2004	06	06	2	834	5.6	3.5	3			3.1
2004	06	07	1	781	3.3	1.1	1	1636		2.8
2004	06	08	1	170	1.9	2.0	1	1640		3.0
2004	06	09	1	258	3.7	2.8	1	1831		3.5
2004	06	10	1	1324	7.9	2.5	1	1093		3.9
2004	06	11	1	1521		2.2	1	1521		3.0
2004	06	12	1	829	4.0	3.0	1	2142		3.4
2004	06	13	1	303	6.2	.3	1	1048		5.8
2004	06	14	1	856	9.6	2.2	1	939		1.1
2004	06	15	1	1041	8.2	2.5	1	2031		2.9
2004	06	16	1	1194	8.1	2.0	1	1622		2.0
2004	06	17	1	461	1.2	.0	2	945		3.1
2004	06	18	1	885	1.7	.8	1	1810		2.2
2004	06	19	1	1000	12.9	.8	1	1220		6.9
2004	06	20	1	1791	12.3	4.3	1	2195		4.4
2004	06	21	1	366	2.9	.7	1	2204		4.6
2004	06	22	2	385	6.4	.8	2	467		2.3
2004	06	23	1	2006	11.2	3.2	1	2115		3.8
2004	06	24	1	361	2.1	1.5	1	2160		5.1
2004	06	25	1	1038	7.0	2.2	2	1699		2.8

2004	06	26	1	1148	2.3	.0	1	1259		5.4
2004	06	27	1	549	4.8	3.5	1	2203		4.3
2004	06	28	1	655	3.6	1.8	1	2128		3.9
2004	06	29	1	1566	7.3	2.9	1	2276		4.1
2004	06	30	1	551	5.2	2.1	1		2.6	2.6

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	07	01	1	342	1.8	1.4	1	1292		5.0
2004	07	02	4				1	2252		3.3
2004	07	03	1	782	4.6	4.8	1	2074		2.8
2004	07	04	1	308	3.6	2.1	1	782		4.3
2004	07	05	2	693	11.5	2.7	1	943		4.3
2004	07	06	1	1239	7.8	4.5	1	1664		5.2
2004	07	07	1	526	.4	1.2	1	1242		4.3
2004	07	08	2	814	6.2	1.0	1	1678		3.7
2004	07	09	1	1507	9.5	4.0	1	1736		5.3
2004	07	10	1	827	8.2	2.4	1	2234		3.3
2004	07	11	1	641	1.7	2.7	1	1984		2.0
2004	07	12	1	576	6.6	2.6	2	499		4.2
2004	07	13	2	864	6.2	5.7	1	484		4.6
2004	07	14	1	731	4.3	2.9	2	774		2.5
2004	07	15	1	1002	3.6	2.2	1	1355		5.3
2004	07	16	1	1241	4.2	1.6	1	1696		4.4
2004	07	17	1	908	4.5	2.6	1	1695		4.2
2004	07	18	1	717	2.2	1.5	2	717		2.9
2004	07	19	1	952	3.7	2.8	1	1395		1.5
2004	07	20	1	610	4.3	1.9	1	1810		3.7
2004	07	21	1	396	1.5	2.9	1	1560		2.4
2004	07	22	1	197	2.2	.4	1	588		3.7
2004	07	23	1	783	8.6	2.5	3			2.9
2004	07	24	2	1323	4.9	4.4	1	1335		3.0
2004	07	25	1	1391	2.3	2.3	1	1391		3.9
2004	07	26	1	434	1.1	2.8	1	954		3.3
2004	07	27	1	942	4.4	1.9	2	696		4.1
2004	07	28	2	754	2.6	.9	1	754		1.3
2004	07	29	1	821	7.1	2.4	1	1857		2.5
2004	07	30	1	228	3.2	.5	1	1105		3.9
2004	07	31	1	615	9.9	2.4	1	871		6.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

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TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	08	01	2	1231	7.4	1.8	1	1042		2.3
2004	08	02	1	1098	4.6	1.8	1	1297		2.4
2004	08	03	1	534	2.6	.5	1	640		4.1
2004	08	04	1	1423	5.1	3.1	1	2145		3.4
2004	08	05	2	1103	6.0	5.1	1	1572		3.4
2004	08	06	1	1796	5.4	5.4	1	1881		4.9
2004	08	07	1	719	3.5	4.2	1	1439		4.4
2004	08	08	1	732	5.8	2.8	1	2629		3.6
2004	08	09	1	499	2.4	1.8	1	2619		4.0
2004	08	10	1	209	4.5	1.5	1	1781		5.1
2004	08	11	1	779	5.2	1.4	2	1401		4.2
2004	08	12	1	1155	4.6	2.9	1	1155		5.5
2004	08	13	2	1345	8.5	3.2	2	1000		4.3
2004	08	14	1	979	5.4	1.6	1	979		1.4
2004	08	15	2	1349	3.3	1.7	1	822		1.9
2004	08	16	2	1056	1.8	1.8	2	692		1.2
2004	08	17	1	428	2.3	2.9	1	1007		2.4
2004	08	18	1	331	3.8	.5	1	821		4.1
2004	08	19	1	615	9.8	1.2	1	1311		3.5
2004	08	20	1	731	2.8	.5	1	2067		3.6
2004	08	21	1	1200	6.4	1.6	2	1200		4.3
2004	08	22	1	792	3.2	3.7	1	1393		2.0
2004	08	23	1	211	3.0	.5	1	1407		3.5
2004	08	24	1	1355	6.6	2.2	1	1314		2.8
2004	08	25	1	494	4.1	.7	1	762		3.2
2004	08	26	1	355	9.1	.9	1	924		2.9
2004	08	27	1	726	3.7	.5	1	1008		3.3
2004	08	28	1	341	2.6	.9	1	1493		3.0
2004	08	29	1	511	2.6	1.2	1	937		4.9
2004	08	30	1	656	5.0	1.8	2	812		4.1
2004	08	31	2	1307	5.4	2.5	1	1307		6.7

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

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TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	09	01	1	582	4.0	3.7	1	2205		3.8
2004	09	02	1	1489	4.9	3.5	1	1520		2.4
2004	09	03	1	685	3.2	.9	1	1264		3.8
2004	09	04	1	412	3.2	2.4	1	1551		2.6
2004	09	05	1	1061	6.4	4.3	1	514		3.7
2004	09	06	1	647	5.3	2.6	1	1058		3.6
2004	09	07	2	615	8.0	2.0	1	1211		2.6
2004	09	08	2	525	1.3	3.0	2	487		3.4
2004	09	09	2	977	13.1	5.2	1	977		7.1
2004	09	10	1	1126	15.6	5.5	1	1175		6.6
2004	09	11	1	387	2.0	3.0	1	500		2.0
2004	09	12	1	423	1.7	2.1	1	1902		1.9
2004	09	13	1	402	3.2	2.9	1	1895		3.6
2004	09	14	1	1042	6.8	2.9	1	915		3.3
2004	09	15	1	454	4.0	1.3	2	836		2.9
2004	09	16	1	843	3.1	1.8	1	1318		2.9
2004	09	17	1	393	2.1	.4	1	393		2.1
2004	09	18	2	625	5.2	4.7	2	538		6.8
2004	09	19	1	1255	10.4	5.6	1	1367		8.8
2004	09	20	1	303	4.3	4.4	1	1194		3.3
2004	09	21	1	325	4.0	3.1	1	1051		2.8
2004	09	22	1	286	5.8	2.1	1	1502		4.5
2004	09	23	1	451	2.9	3.6	1	1471		4.2
2004	09	24	1	372	1.4	.6	1	823		3.1
2004	09	25	1	312	4.1	.5	1	845		3.0
2004	09	26	1	1906	6.8	2.2	1	1901		2.8
2004	09	27	1	473	.7	1.4	1	899		2.9
2004	09	28	2	1018	3.0	1.7	2	904		3.7
2004	09	29	2	1472	8.6	6.2	1	835		4.4
2004	09	30	1	518	1.0	.2	2	558		.8

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	10	01	1	791	2.2	3.0	1	1528		2.2
2004	10	02	1	406	8.0	.2	1	487		3.3
2004	10	03	1	1256	5.7	6.3	1	1400		2.3
2004	10	04	1	378	5.9	.9	1	1566		3.5

2004	10	05	1	1851	10.8	4.7	1	1888	4.7
2004	10	06	1	319	2.6	2.1	1	1509	3.0
2004	10	07	1	155	1.5	2.7	1	1282	2.2
2004	10	08	1	252	1.4	.3	1	727	3.5
2004	10	09	1	342	5.9	.7	1	463	3.1
2004	10	10	1	1561	7.5	2.2	1	1561	5.8
2004	10	11	1	1760	10.7	7.3	1	1760	7.6
2004	10	12	1	1302	14.8	6.7	1	1484	7.0
2004	10	13	1	441	4.8	4.7	1	933	1.3
2004	10	14	1	243	1.4	1.1	2	243	3.7
2004	10	15	1	816	3.1	1.1	2	687	4.0
2004	10	16	2	864	7.2	3.7	1	1535	3.5
2004	10	17	1	1041	10.2	3.3	1	1721	5.0
2004	10	18	1	1219	9.6	2.2	1	1872	3.7
2004	10	19	2	1175	3.1	4.4	1	666	4.0
2004	10	20	1	1074	3.1	3.8	1	1074	3.7
2004	10	21	1	1190	3.5	2.6	1	1107	2.9
2004	10	22	1	1283	4.2	3.2	1	1322	4.4
2004	10	23	1	1167	4.9	3.7	1	1353	4.4
2004	10	24	1	1212	4.4	3.5	1	1189	2.3
2004	10	25	2	1074	2.2	2.1	1	1105	1.7
2004	10	26	1	1294	7.0	2.3	1	1395	6.0
2004	10	27	1	587	2.4	3.7	1	1610	4.1
2004	10	28	1	597	6.1	3.8	1	850	2.6
2004	10	29	1	577	3.5	1.2	1	577	1.9
2004	10	30	2	810	6.3	1.0	2	516	3.5
2004	10	31	1	1877	10.7	1.4	1	1992	5.2

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING				AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	11	01	1	1697	15.3	5.3	1	1539	6.2
2004	11	02	1	884	5.2	2.4	1	931	4.7
2004	11	03	2	1776	16.6	6.2	1	1776	6.1
2004	11	04	1	646	1.2	1.8	2	696	2.4
2004	11	05	1	2895	23.7	6.7	1	2203	10.2
2004	11	06	1	1238	11.9	2.1	1	1892	4.7
2004	11	07	1	121	1.1	1.1	1	1323	5.0
2004	11	08	1	2988	14.8	6.3	1	1902	7.2
2004	11	09	1	2042	8.4	2.9	1	2042	5.5
2004	11	10	1	929	2.6	1.3	1	1206	2.5
2004	11	11	1	466	9.7	2.4	1	533	3.4
2004	11	12	2	1030	3.5	3.7	2	706	4.0
2004	11	13	2	929	8.0	3.1	1	929	9.1
2004	11	14	1	663	7.4	7.9	1	1267	4.9

2004	11	15	1	206	6.3	2.6	1	1020	3.7
2004	11	16	1	488	9.1	1.7	1	970	3.1
2004	11	17	1	165	1.9	2.5	1	1018	1.6
2004	11	18	1	165	1.0	2.3	1	559	2.5
2004	11	19	1	1167	7.7	1.3	1	1574	2.3
2004	11	20	1	737	2.7	2.5	2	523	2.6
2004	11	21	2	682	4.7	2.1	1	370	.3
2004	11	22	1	1546	6.5	1.3	1	1462	2.0
2004	11	23	1	1238	1.7	2.3	1	1125	2.2
2004	11	24	1	713	6.8	2.3	2	417	3.9
2004	11	25	2	550	9.9	3.6	2	445	6.5
2004	11	26	1	1485	12.3	6.5	1	2325	5.1
2004	11	27	1	326	5.3	.2	1	1557	5.9
2004	11	28	2	1266	18.6	8.8	2	903	4.1
2004	11	29	1	1114	10.8	2.1	1	1169	6.3
2004	11	30	1	614	.6	1.9	1	806	2.3

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

DAILY MIXING HEIGHTS AND AVERAGE WIND SPEEDS

U/A DATA STA. NO 54775 Albany, NY

SFC DATA STA. NO 72503 White Plains, NY

			MORNING					AFTERNOON		
YEAR	MO	DAY	T	MXG HGT	WIND LYR	WIND SFC	T	MXG HGT	WIND LYR	WIND SFC
2004	12	01	2	1245	24.1	4.3	2	1254		9.9
2004	12	02	1	1663	12.6	3.3	1	1458		4.1
2004	12	03	1	286	5.3	.7	1	2024		6.4
2004	12	04	1	1017	4.4	2.7	1	1213		2.6
2004	12	05	1	158	2.7	1.8	1	1870		5.0
2004	12	06	1	882	2.3	2.2	2	800		4.7
2004	12	07	1	772	9.6	4.5	2	772		5.3
2004	12	08	2	952	12.3	3.1	1	1622		8.8
2004	12	09	1	893	3.4	1.9	2	1040		3.2
2004	12	10	2	1060	6.9	5.2	2	617		6.4
2004	12	11	1	877	4.1	.5	1	677		2.2
2004	12	12	1	2039	11.0	4.7	1	1984		6.3
2004	12	13	1	2228	8.7	2.7	1	1181		5.9
2004	12	14	1	1655	14.6	4.6	1	1398		6.5
2004	12	15	1	1486	9.4	4.8	1	1557		5.9
2004	12	16	1	342	3.3	1.3	1	837		3.0
2004	12	17	1	1619	11.8	2.6	1	1619		7.8
2004	12	18	1	626	2.8	1.5	1	1087		2.8
2004	12	19	1	487	6.0	.3	2	487		1.9
2004	12	20	4				1	1092		8.2
2004	12	21	1	637	2.1	.0	1	968		2.0
2004	12	22	1	257	6.0	.0	1	513		3.3
2004	12	23	1	403	9.9	3.1	2	797		8.9
2004	12	24	1	1263	10.3	6.8	1	1091		5.0
2004	12	25	1	1744	8.0	3.3	1	1788		2.4

2004	12	26	1	691	4.0	4.0	2	1015	5.0
2004	12	27	2	1456	7.9	6.9	1	1117	7.5
2004	12	28	1	801	7.7	6.0	2	1092	2.8
2004	12	29	1	283	7.8	2.9	1	1336	3.0
2004	12	30	1	1444	5.2	2.6	1	1444	1.8
2004	12	31	1	410	6.7	.2	1	719	4.0

MIXING HEIGHT IN METERS

WIND SPEED IN METERS/SEC

TYPE 1 = NO PRECIPITATION

TYPE 2 = PRECIPITATION

TYPE 3 = SELECTED TEMPERATURE LESS THAN RAOB TEMP

TYPE 4 = MISSING

```
MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised 1/8/04, K. McFadden
P1:  ATMOS USER INPUT (UNIT 24) = atmbi2NS.INP


P2:  EARLY USER INPUT (UNIT 25) = earbi-noE.INP


P3: CHRONC USER INPUT (UNIT 26) = chrbiEC.INP


P4:  METEOROLOGY DATA (UNIT 28) = meti01.INP


P5:   SITE DATA INPUT (UNIT 29) = siteiEC.INP


P6:       LIST OUTPUT (UNIT 06) = conbi2NS-noE-Nmet01EC.OUT




USER INPUT IS READ FROM UNIT 24
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT

       *

    1  RIATNAM1001 'ATMOS INPUT FOR IPEC CALCULATIONS'

*******************************************************************************

       * GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/

       *

       * NUMBER OF RADIAL SPATIAL ELEMENTS

       *

    2  GENUMRAD001  15

       *

       *

       *

    3  GESPAEND001     0.32      1.61      3.22      4.83      6.44
```

```
  4  GESPAEND002     8.05      9.66     11.27     12.87     14.48
  5  GESPAEND003    16.09     32.19     48.28     64.37     80.47

*******************************************************************************
     * NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
     *
     * Number of pseudo-stable nuclides (used to truncate the decay chains)
     *
  6  ISNUMSTB001      27
     *
     * List of pseudo-stable nuclides
     *
  7  ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
  8  ISNAMSTB002     Xe-131m  (daughter of I-131)
  9  ISNAMSTB003     Xe-133m  (daughter of I-133)
 10  ISNAMSTB004     Xe-135m  (daughter of I-135)
 11  ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
 12  ISNAMSTB006     Sm-147   (daughter of Pm-147)
 13  ISNAMSTB007     U-234    (daughter of Pu-238)
 14  ISNAMSTB008     U-235    (daughter of Pu-239)
 15  ISNAMSTB009     U-236    (daughter of Pu-240)
 16  ISNAMSTB010     U-237    (daughter of Pu-241)
 17  ISNAMSTB011     Np-237   (daughter of Am-241)
 18  ISNAMSTB012     Rb-87    (daughter of Kr-87)
 19  ISNAMSTB013     Ba-137m  (daughter of Cs-137)
 20  ISNAMSTB014     Rb-88    (daughter of Kr-88)
 21  ISNAMSTB015     Y-91m    (daughter of Sr-91)
 22  ISNAMSTB016     Zr-93    (daughter of Y-93)
 23  ISNAMSTB017     Nb-93m   (daughter of Zr-93)
 24  ISNAMSTB018     Nb-95m   (daughter of Zr-95)
 25  ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
 26  ISNAMSTB020     Nb-97m   (daughter of Zr-97)
```

```
ISNAMSTB021     Tc-99    (daughter of Mo-99)
ISNAMSTB022     Rh-103m  (daughter of Ru-103)
ISNAMSTB023     Rh-106   (daughter of Ru-106)
ISNAMSTB024    Te-131    (daughter of Te-131m)
ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026     Pr-144m  (daughter of Ce-144)
ISNAMSTB027     Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
*
ISDEPFLA001    .FALSE.   .FALSE.
ISDEPFLA002    .TRUE.    .TRUE.
ISDEPFLA003    .TRUE.    .TRUE.
ISDEPFLA004    .TRUE.    .TRUE.
ISDEPFLA005    .TRUE.    .TRUE.
ISDEPFLA006    .TRUE.    .TRUE.
ISDEPFLA007    .TRUE.    .TRUE.
ISDEPFLA008    .TRUE.    .TRUE.
ISDEPFLA009    .TRUE.    .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
```

```
*
*                NUCNAM    IGROUP
*
ISOTPGRP001      Co-58        6
ISOTPGRP002      Co-60        6
ISOTPGRP003      Kr-85        1
ISOTPGRP004      Kr-85m       1
ISOTPGRP005      Kr-87        1
ISOTPGRP006      Kr-88        1
ISOTPGRP007      Rb-86        3
ISOTPGRP008      Sr-89        5
ISOTPGRP009      Sr-90        5
ISOTPGRP010      Sr-91        5
ISOTPGRP011      Sr-92        5
ISOTPGRP012      Y-90         7
ISOTPGRP013      Y-91         7
ISOTPGRP014      Y-92         7
ISOTPGRP015      Y-93         7
ISOTPGRP016      Zr-95        7
ISOTPGRP017      Zr-97        7
ISOTPGRP018      Nb-95        7
ISOTPGRP019      Mo-99        6
ISOTPGRP020      Tc-99m       6
ISOTPGRP021      Ru-103       6
ISOTPGRP022      Ru-105       6
ISOTPGRP023      Ru-106       6
ISOTPGRP024      Rh-105       6
ISOTPGRP025      Sb-127       4
ISOTPGRP026      Sb-129       4
ISOTPGRP027      Te-127       4
ISOTPGRP028      Te-127m      4
ISOTPGRP029      Te-129       4
```

74	ISOTPGRP030	Te-129m	4
75	ISOTPGRP031	Te-131m	4
76	ISOTPGRP032	Te-132	4
77	ISOTPGRP033	I-131	2
78	ISOTPGRP034	I-132	2
79	ISOTPGRP035	I-133	2
80	ISOTPGRP036	I-134	2
81	ISOTPGRP037	I-135	2
82	ISOTPGRP038	Xe-133	1
83	ISOTPGRP039	Xe-135	1
84	ISOTPGRP040	Cs-134	3
85	ISOTPGRP041	Cs-136	3
86	ISOTPGRP042	Cs-137	3
87	ISOTPGRP043	Ba-139	9
88	ISOTPGRP044	Ba-140	9
89	ISOTPGRP045	La-140	7
90	ISOTPGRP046	La-141	7
91	ISOTPGRP047	La-142	7
92	ISOTPGRP048	Ce-141	8
93	ISOTPGRP049	Ce-143	8
94	ISOTPGRP050	Ce-144	8
95	ISOTPGRP051	Pr-143	7
96	ISOTPGRP052	Nd-147	7
97	ISOTPGRP053	Np-239	8
98	ISOTPGRP054	Pu-238	8
99	ISOTPGRP055	Pu-239	8
100	ISOTPGRP056	Pu-240	8
101	ISOTPGRP057	Pu-241	8
102	ISOTPGRP058	Am-241	7
103	ISOTPGRP059	Cm-242	7
104	ISOTPGRP060	Cm-244	7

```
*****************************************************************************
       * WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
       *
       * WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
       *
  105  WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
       *
       * WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
       *
  106  WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)

*****************************************************************************
       * DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
       *
       * NUMBER OF PARTICLE SIZE GROUPS
       *
  107  DDNPSGRP001   1
       *
       * DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
       *
  108  DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)

*****************************************************************************
       * DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/,
/DISPZ/
       *
       * # of distances in plume-size tables--which can be used as an alternative to
the power-law model:
       * (to utilize the power-law model, set NUM_DIST to zero or delete the
following data card)
       *
  109  NUM_DIST001   0
       *
       * SIGMA = A * X ** B
       *
```

```
      * Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km

      * as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).

      * P-G CLASS:          A            B            C            D            E
       F
  110  DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
    0.0722
  111  DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
    0.9031
  112  DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
    0.2
  113  DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
    0.6020
      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1

      *

  114  DPYSCALE001    1.

      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,

      *  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.

      *  (Z1 / Z0) ** 0.2,   FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27

      *

  115  DPZSCALE001    1.27

****************************************************************************** *

      * EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/

      *

      * TIME BASE FOR EXPANSION FACTOR (SECONDS)

      *

  116  PMTIMBAS001    600.   (10 MINUTES)

      *

      * BREAK POINT FOR FORMULA CHANGE (SECONDS)

      *

  117  PMBRKPNT001   3600.   (1 HOUR)

      *

      * EXPONENTIAL EXPANSION FACTOR NUMBER 1

      *

  118  PMXPFAC1001      0.2
```

```
      *
      * EXPONENTIAL EXPANSION FACTOR NUMBER 2
      *
  119 PMXPFAC2001      0.25
*******************************************************************************
      * PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
      *
      * SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT
PLUME
      * (USED BY FUNCTION CAUGHT)
      *
  120 PRSCLCRW001   1.
      *
      * SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
      * (USED BY FUNCTION PLMRIS)
      *
  121 PRSCLADP001   1.
      *
      * SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
      * (USED BY FUNCTION PLMRIS)
      *
  122 PRSCLEFP001   1.
*******************************************************************************
      * RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
      ********************** RELEASE DATA BLOCK ************
      * SOURCE TERM NUMBER  1 OF 8
  123 RDATNAM2001 'NCF'
      *
      * TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
      * CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
      * PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
      *
```

```
124  RDOALARM001   1.66E+04
     *
     * NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
     *
125  RDNUMREL001          1
     *
     * SELECTION OF RISK DOMINANT PLUME
     *
126  RDMAXRIS001          1
     *
     * REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
     *
127  RDREFTIM001        0.5
     *
     * HEAT CONTENT OF THE RELEASE SEGMENTS (W)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
128  RDPLHEAT001   9.20E+05
     *
     * HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
129  RDPLHITE001        30.
     *
     * DURATION OF THE PLUME SEGMENTS (S)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
130  RDPLUDUR001   8.64E+04
     *
     * TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
```

```
*
RDPDELAY001   0.00E+00
*
* Initial value of sigma-y for each plume--Note: values required for each
plume
*
SIGYINIT001   9.9  (initial sigma-y = W/4.3 = 42.5/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each
plume
*
SIGZINIT001  31.1  (initial sigma-z = H/2.15 = 66.8/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   66.8
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
*
*               NUCNAM  CORINV (Bq)
*
RDCORINV001     Co-58    3.04E+16
```

145	RDCORINV002	Co-60	2.32E+16
146	RDCORINV003	Kr-85	3.84E+16
147	RDCORINV004	Kr-85m	8.48E+17
148	RDCORINV005	Kr-87	1.63E+18
149	RDCORINV006	Kr-88	2.29E+18
150	RDCORINV007	Rb-86	8.31E+15
151	RDCORINV008	Sr-89	3.08E+18
152	RDCORINV009	Sr-90	3.05E+17
153	RDCORINV010	Sr-91	3.87E+18
154	RDCORINV011	Sr-92	4.19E+18
155	RDCORINV012	Y-90	3.18E+17
156	RDCORINV013	Y-91	3.98E+18
157	RDCORINV014	Y-92	4.19E+18
158	RDCORINV015	Y-93	4.85E+18
159	RDCORINV016	Zr-95	5.38E+18
160	RDCORINV017	Zr-97	5.41E+18
161	RDCORINV018	Nb-95	5.45E+18
162	RDCORINV019	Mo-99	6.11E+18
163	RDCORINV020	Tc-99m	5.34E+18
164	RDCORINV021	Ru-103	4.89E+18
165	RDCORINV022	Ru-105	3.36E+18
166	RDCORINV023	Ru-106	1.71E+18
167	RDCORINV024	Rh-105	3.09E+18
168	RDCORINV025	Sb-127	3.47E+17
169	RDCORINV026	Sb-129	1.04E+18
170	RDCORINV027	Te-127	3.43E+17
171	RDCORINV028	Te-127m	4.50E+16
172	RDCORINV029	Te-129	1.02E+18
173	RDCORINV030	Te-129m	1.50E+17
174	RDCORINV031	Te-131m	4.64E+17
175	RDCORINV032	Te-132	4.57E+18

```
RDCORINV033     I-131    3.20E+18
RDCORINV034     I-132    4.64E+18
RDCORINV035     I-133    6.56E+18
RDCORINV036     I-134    7.19E+18
RDCORINV037     I-135    6.11E+18
RDCORINV038     Xe-133   6.28E+18
RDCORINV039     Xe-135   1.67E+18
RDCORINV040     Cs-134   7.19E+17
RDCORINV041     Cs-136   2.10E+17
RDCORINV042     Cs-137   4.15E+17
RDCORINV043     Ba-139   5.83E+18
RDCORINV044     Ba-140   5.62E+18
RDCORINV045     La-140   6.04E+18
RDCORINV046     La-141   5.34E+18
RDCORINV047     La-142   5.17E+18
RDCORINV048     Ce-141   5.31E+18
RDCORINV049     Ce-143   4.96E+18
RDCORINV050     Ce-144   4.19E+18
RDCORINV051     Pr-143   4.78E+18
RDCORINV052     Nd-147   2.13E+18
RDCORINV053     Np-239   6.56E+19
RDCORINV054     Pu-238   1.44E+16
RDCORINV055     Pu-239   1.22E+15
RDCORINV056     Pu-240   1.83E+15
RDCORINV057     Pu-241   4.12E+17
RDCORINV058     Am-241   4.92E+14
RDCORINV059     Cm-242   1.23E+17
RDCORINV060     Cm-244   1.33E+16
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*
```

```
  204  RDCORSCA001   1.0
       *
  205  RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
       *
       * RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
       *
       *  ISOTOPE GROUPS:
       *
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
  206  RDRELFRC001 9.3E-05 3.9E-06 1.6E-06 1.2E-06 3.7E-08 2.4E-07 2.1E-09 1.8E-08
1.1E-07
       *

*****************************************************************************
       * OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
       *
       * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
       *
  207  OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
       *
  208  OCIDEBUG001  0
       *
       * NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
       *
       *OCNUCOUT001  Cs-137
       *
       *              NUM0
  209  TYPE0NUMBER      0
       *
       *              INDREL   INDRAD
       *TYPE0OUT001      1        9
       *TYPE0OUT002      1       10         CCDF
```

```
*****************************************************************************
      * METEOROLOGICAL SAMPLING DATA BLOCK
      *
      * METEOROLOGICAL SAMPLING OPTION CODE:
      *
      * METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
      *          2, WEATHER CATEGORY BIN SAMPLING,
      *          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
      *          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
      *          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
      *
  210 M1METCOD001  2
      *
      * LAST SPATIAL INTERVAL FOR MEASURED WEATHER
      *
  211 M2LIMSPA001  15
      *
      * BOUNDARY WEATHER MIXING LAYER HEIGHT
      *
  212 M2BNDMXH001  1000.  (METERS)
      *
      * BOUNDARY WEATHER STABILITY CLASS INDEX
      *
  213 M2IBDSTB001  4      (D-STABILITY)
      *
      * BOUNDARY WEATHER RAIN RATE
      *
  214 M2BNDRAN001  0.     (MM/HR)
      *
      * BOUNDARY WEATHER WIND SPEED
      *
```

```
215  M2BNDWND001  5.     (M/S)
     *
     * NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
     *
216  M4NRNINT001  6
     *
     * ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
     *
     * NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
     *       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
     *
     *             2.0    4.0      7     10.0     20.0   40.0   MILES
     *
217  M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
     *
     * NUMBER OF RAIN INTENSITIY BREAKPOINTS
     *
218  M4NRINTN001   3
     *
     * RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
     *
219  M4RNRATE001   2.  4.  6.
     *
     * NUMBER OF SAMPLES PER BIN
     *
220  M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
     *
     * INITIAL SEED FOR RANDOM NUMBER GENERATOR
     *
221  M4IRSEED001   79
     .
```

```
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  449
NUMBER OF BLANK OR COMMENT RECORDS READ         =  227
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =  221
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =  221
*******************************************************************************
****************



Decay Chain #  Ba-139

Decay Chain #  Ba-140   La-140
Fraction of Ba-140  going to La-140  in this chain = 1.000000

Decay Chain #  Ce-143   Pr-143
Fraction of Ce-143  going to Pr-143  in this chain = 1.000000

Decay Chain #  Ce-144

Decay Chain #  Cm-242   Pu-238
Fraction of Cm-242  going to Pu-238  in this chain = 1.000000

Decay Chain #  Cm-244   Pu-240
Fraction of Cm-244  going to Pu-240  in this chain = 1.000000

Decay Chain #  Co-58

Decay Chain #  Co-60

Decay Chain #  Cs-134

Decay Chain #  Cs-136

Decay Chain #  Cs-137

Decay Chain #  I-133    Xe-133
Fraction of I-133   going to Xe-133  in this chain = 0.971000

Decay Chain #  I-134

Decay Chain #  I-135    Xe-135
Fraction of I-135   going to Xe-135  in this chain = 0.846000

Decay Chain #  Kr-85m   Kr-85
Fraction of Kr-85m  going to Kr-85   in this chain = 0.211000

Decay Chain #  Kr-87

Decay Chain #  Kr-88

Decay Chain #  La-141   Ce-141
Fraction of La-141  going to Ce-141  in this chain = 1.000000

Decay Chain #  La-142

Decay Chain #  Mo-99    Tc-99m
```

```
Fraction of Mo-99   going to Tc-99m  in this chain = 0.876000

Decay Chain #  Nd-147

Decay Chain #  Np-239   Pu-239
Fraction of Np-239  going to Pu-239  in this chain = 1.000000

Decay Chain #  Pu-241   Am-241
Fraction of Pu-241  going to Am-241  in this chain = 1.000000

Decay Chain #  Rb-86

Decay Chain #  Ru-103

Decay Chain #  Ru-105   Rh-105
Fraction of Ru-105  going to Rh-105  in this chain = 1.000000

Decay Chain #  Ru-106

Decay Chain #  Sb-127   Te-127
Fraction of Sb-127  going to Te-127  in this chain = 0.824000

Decay Chain #  Sb-127   Te-127m  Te-127
Fraction of Sb-127  going to Te-127m in this chain = 0.176000
Fraction of Sb-127  going to Te-127  in this chain = 0.171776
Fraction of Te-127m going to Te-127  in this chain = 0.976000

Decay Chain #  Sb-129   Te-129
Fraction of Sb-129  going to Te-129  in this chain = 0.775000

Decay Chain #  Sb-129   Te-129m  Te-129
Fraction of Sb-129  going to Te-129m in this chain = 0.225000
Fraction of Sb-129  going to Te-129  in this chain = 0.146250
Fraction of Te-129m going to Te-129  in this chain = 0.650000

Decay Chain #  Sr-89

Decay Chain #  Sr-90    Y-90
Fraction of Sr-90   going to Y-90    in this chain = 1.000000

Decay Chain #  Sr-91    Y-91
Fraction of Sr-91   going to Y-91    in this chain = 0.422000

Decay Chain #  Sr-92    Y-92
Fraction of Sr-92   going to Y-92    in this chain = 1.000000

Decay Chain #  Te-131m  I-131
Fraction of Te-131m going to I-131   in this chain = 0.778000

Decay Chain #  Te-132   I-132
Fraction of Te-132  going to I-132   in this chain = 1.000000

Decay Chain #  Y-93

Decay Chain #  Zr-95    Nb-95
Fraction of Zr-95   going to Nb-95   in this chain = 0.993000

Decay Chain #  Zr-97


RELEASED INVENTORY OF ALL PLUMES
Co-58      7.26E+09
Co-60      5.57E+09
```

Kr-85	3.57E+12
Kr-85m	1.23E+13
Kr-87	2.19E+11
Kr-88	1.14E+13
Rb-86	1.31E+10
Sr-89	1.13E+11
Sr-90	1.13E+10
Sr-91	5.97E+10
Sr-92	7.20E+09
Y-90	1.96E+09
Y-91	8.55E+09
Y-92	2.56E+10
Y-93	4.47E+09
Zr-95	1.12E+10
Zr-97	6.94E+09
Nb-95	1.14E+10
Mo-99	1.29E+12
Tc-99m	1.21E+12
Ru-103	1.16E+12
Ru-105	1.24E+11
Ru-106	4.10E+11
Rh-105	6.60E+11
Sb-127	3.81E+11
Sb-129	1.82E+11
Te-127	3.92E+11
Te-127m	5.41E+10
Te-129	3.09E+11
Te-129m	1.79E+11
Te-131m	4.22E+11
Te-132	4.93E+12
I-131	1.20E+13
I-132	5.41E+12
I-133	1.72E+13
I-134	2.12E+09
I-135	6.77E+12
Xe-133	5.48E+14
Xe-135	6.85E+13
Cs-134	1.15E+12
Cs-136	3.27E+11
Cs-137	6.64E+11
Ba-139	1.54E+09
Ba-140	6.02E+11
La-140	1.24E+11
La-141	1.35E+09
La-142	4.93E+07
Ce-141	9.46E+10
Ce-143	6.94E+10
Ce-144	7.53E+10
Pr-143	1.18E+10
Nd-147	4.33E+09
Np-239	1.02E+12
Pu-238	2.59E+08
Pu-239	2.20E+07
Pu-240	3.29E+07
Pu-241	7.42E+09
Am-241	1.05E+06
Cm-242	2.58E+08
Cm-244	2.79E+07

READING FROM A WEATHER FILE WITH THE FOLLOWING HEADER:
INDIAN POINT ENERGY CENTER METEORLOGICAL DATAFILE
Input file for the MACCS2 model using the year 2001
METEOROLOGICAL DATA FILE CONTAINS 324 HOURS OF OBSERVED RAIN DATA.

```
            ACCUMULATED RAIN MEASUREMENTS TOTALED  28.30 INCHES FOR THE YEAR.
            CONSTANT LID HEIGHTS (M) FOR 4 SEASONS =    1100   1500   1500   1200
            NON-ZERO WINDSPEEDS LESS THAN 0.5 M/S ARE SET TO 0.5 M/S
NUMTRI=         150


                                  * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND, 1 (0-1), 2 (1-2), 3
(2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                   WIND DIRECTION
  METBIN    1     2     3     4     5     6     7     8     9    10    11    12
13    14    15    16  TOTAL   PER CENT

 1 B   3  0.266 0.028 0.007 0.014 0.042 0.126 0.105 0.084 0.070 0.000 0.000 0.000
0.000 0.000 0.000 0.259  143     1.6324
 2 B   4  0.079 0.053 0.018 0.000 0.035 0.105 0.149 0.105 0.272 0.132 0.000 0.000
0.000 0.000 0.009 0.044  114     1.3014
 3 D   1  0.098 0.055 0.072 0.026 0.043 0.026 0.021 0.026 0.043 0.038 0.043 0.068
0.077 0.111 0.098 0.157  235     2.6826
 4 D   2  0.179 0.095 0.054 0.056 0.041 0.044 0.057 0.063 0.098 0.101 0.059 0.020
0.016 0.012 0.020 0.088 1469    16.7694
 5 D   3  0.151 0.053 0.023 0.034 0.067 0.075 0.112 0.084 0.192 0.129 0.028 0.005
0.001 0.002 0.002 0.042 1709    19.5091
 6 D   4  0.097 0.055 0.014 0.018 0.040 0.081 0.219 0.115 0.149 0.191 0.013 0.000
0.000 0.000 0.000 0.008 1118    12.7626
 7 D   5  0.000 0.035 0.000 0.000 0.018 0.035 0.333 0.035 0.474 0.070 0.000 0.000
0.000 0.000 0.000 0.000   57     0.6507
 9 E   1  0.098 0.080 0.061 0.061 0.036 0.018 0.019 0.032 0.080 0.087 0.076 0.047
0.073 0.058 0.073 0.105  727     8.2991
10 E   2  0.163 0.087 0.060 0.043 0.020 0.009 0.009 0.017 0.033 0.187 0.171 0.054
0.027 0.022 0.012 0.087 1147    13.0936
11 E   3  0.194 0.051 0.015 0.022 0.015 0.011 0.007 0.004 0.048 0.341 0.253 0.004
0.000 0.000 0.000 0.037  273     3.1164
12 E   4  0.263 0.026 0.026 0.000 0.079 0.211 0.000 0.026 0.105 0.105 0.079 0.000
0.000 0.000 0.000 0.079   38     0.4338
13 F   1  0.016 0.021 0.032 0.032 0.021 0.043 0.043 0.091 0.241 0.230 0.086 0.064
0.011 0.027 0.027 0.016  187     2.1347
14 F   2  0.007 0.013 0.007 0.007 0.000 0.000 0.003 0.007 0.052 0.479 0.300 0.078
0.020 0.010 0.007 0.013  307     3.5046
15 F   3  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.355 0.645 0.000
0.000 0.000 0.000 0.000   62     0.7078
16 F   4  0.000 0.000 0.000 0.000 0.000 0.000 0.071 0.143 0.071 0.357 0.286 0.071
0.000 0.000 0.000 0.000   14     0.1598
17 R1  3  0.090 0.033 0.029 0.012 0.020 0.012 0.016 0.041 0.168 0.328 0.086 0.037
0.037 0.037 0.020 0.033  244     2.7854
18 R1  6  0.089 0.054 0.000 0.036 0.036 0.000 0.018 0.036 0.161 0.125 0.125 0.071
0.071 0.071 0.054 0.054   56     0.6393
19 R1 11  0.123 0.031 0.046 0.031 0.000 0.000 0.015 0.092 0.108 0.185 0.123 0.031
0.046 0.031 0.031 0.108   65     0.7420
20 R1 16  0.065 0.081 0.032 0.032 0.032 0.000 0.000 0.065 0.048 0.210 0.097 0.048
0.016 0.032 0.032 0.210   62     0.7078
21 R1 32  0.093 0.093 0.019 0.025 0.012 0.000 0.012 0.012 0.124 0.199 0.087 0.043
0.019 0.075 0.037 0.149  161     1.8379
```

```
22 R1 65  0.170 0.072 0.043 0.026 0.010 0.010 0.010 0.026 0.118 0.180 0.062 0.023
0.043 0.036 0.030 0.141  305     3.4817
23 R2  3  0.190 0.095 0.000 0.000 0.000 0.024 0.000 0.000 0.167 0.333 0.071 0.000
0.024 0.048 0.024 0.024   42     0.4795
24 R2  6  0.000 0.000 0.200 0.000 0.000 0.200 0.000 0.000 0.400 0.000 0.000 0.000
0.000 0.000 0.000 0.200    5     0.0571
25 R2 11  0.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.200 0.200 0.000 0.000
0.000 0.200 0.000 0.000    5     0.0571
26 R2 16  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.250 0.500 0.000 0.000
0.000 0.000 0.000 0.250    4     0.0457
27 R2 32  0.375 0.000 0.000 0.125 0.000 0.000 0.000 0.000 0.000 0.375 0.000 0.000
0.000 0.000 0.000 0.125    8     0.0913
28 R2 65  0.214 0.143 0.286 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.071 0.286   14     0.1598
29 R3  3  0.158 0.053 0.000 0.000 0.000 0.000 0.053 0.000 0.211 0.421 0.053 0.000
0.000 0.053 0.000 0.000   19     0.2169
30 R3  6  0.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000    1     0.0114
31 R3 11  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.333 0.000 0.000
0.000 0.000 0.000 0.667    3     0.0342
32 R3 16  1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000    2     0.0228
33 R3 32  0.143 0.000 0.000 0.000 0.000 0.143 0.000 0.000 0.286 0.143 0.000 0.000
0.000 0.143 0.000 0.143    7     0.0799
34 R3 65  0.600 0.000 0.000 0.100 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.200 0.000 0.000 0.100   10     0.1142
35 R4  3  0.129 0.097 0.032 0.065 0.000 0.000 0.000 0.032 0.065 0.194 0.065 0.032
0.097 0.032 0.097 0.065   31     0.3539
36 R4  6  0.250 0.000 0.000 0.000 0.125 0.000 0.125 0.000 0.000 0.125 0.000 0.000
0.000 0.000 0.125 0.250    8     0.0913
37 R4 11  0.167 0.167 0.083 0.083 0.000 0.083 0.000 0.000 0.000 0.000 0.000 0.083
0.000 0.083 0.000 0.250   12     0.1370
38 R4 16  0.400 0.100 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.200 0.100 0.200   10     0.1142
39 R4 32  0.448 0.069 0.000 0.000 0.000 0.034 0.000 0.000 0.103 0.034 0.034 0.000
0.034 0.069 0.069 0.103   29     0.3311
40 R4 65  0.386 0.053 0.018 0.018 0.035 0.018 0.000 0.000 0.000 0.070 0.088 0.070
0.035 0.018 0.035 0.158   57     0.6507
41 ALL    0.138 0.065 0.036 0.034 0.036 0.043 0.071 0.056 0.117 0.165 0.082 0.026
0.020 0.020 0.019 0.070 8760
```

```
                              * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND (M/S), 1 (0-1), 2 (1-2),
3 (2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                WIND DIRECTION
  METBIN    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15
 16 TOTAL   PER CENT

 1 B   3    38    4    1    2    6   18   15   12   10    0    0    0    0    0    0
  37  143     1.6324
 2 B   4     9    6    2    0    4   12   17   12   31   15    0    0    0    0    1
   5  114     1.3014
 3 D   1    23   13   17    6   10    6    5    6   10    9   10   16   18   26   23
```

```
  37  235     2.6826
 4 D   2   263  140   79   82   60   65   83   92  144  148   86   29   23   17   29
 129 1469    16.7694
 5 D   3   258   91   39   58  115  129  192  143  328  221   47    9    1    3    3
  72 1709    19.5091
 6 D   4   108   61   16   20   45   91  245  129  167  213   14    0    0    0    0
   9 1118    12.7626
 7 D   5     0    2    0    0    1    2   19    2   27    4    0    0    0    0    0
   0   57     0.6507
 8 D   6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
 9 E   1    71   58   44   44   26   13   14   23   58   63   55   34   53   42   53
  76  727     8.2991
10 E   2   187  100   69   49   23   10   10   19   38  214  196   62   31   25   14
 100 1147    13.0936
11 E   3    53   14    4    6    4    3    2    1   13   93   69    1    0    0    0
  10  273     3.1164
12 E   4    10    1    1    0    3    8    0    1    4    4    3    0    0    0    0
   3   38     0.4338
13 F   1     3    4    6    6    4    8    8   17   45   43   16   12    2    5    5
   3  187     2.1347
14 F   2     2    4    2    2    0    0    1    2   16  147   92   24    6    3    2
   4  307     3.5046
15 F   3     0    0    0    0    0    0    0    0    0   22   40    0    0    0    0
   0   62     0.7078
16 F   4     0    0    0    0    0    0    1    2    1    5    4    1    0    0    0
   0   14     0.1598
17 R1  3    22    8    7    3    5    3    4   10   41   80   21    9    9    9    5
   8  244     2.7854
18 R1  6     5    3    0    2    2    0    1    2    9    7    7    4    4    4    3
   3   56     0.6393
19 R1 11     8    2    3    2    0    0    1    6    7   12    8    2    3    2    2
   7   65     0.7420
20 R1 16     4    5    2    2    2    0    0    4    3   13    6    3    1    2    2
  13   62     0.7078
21 R1 32    15   15    3    4    2    0    2    2   20   32   14    7    3   12    6
  24  161     1.8379
22 R1 65    52   22   13    8    3    3    3    8   36   55   19    7   13   11    9
  43  305     3.4817
23 R2  3     8    4    0    0    0    1    0    0    7   14    3    0    1    2    1
   1   42     0.4795
24 R2  6     0    0    1    0    0    1    0    0    2    0    0    0    0    0    0
   1    5     0.0571
25 R2 11     2    0    0    0    0    0    0    0    1    1    0    0    0    1    0
   0    5     0.0571
26 R2 16     0    0    0    0    0    0    0    0    1    2    0    0    0    0    0
   1    4     0.0457
27 R2 32     3    0    0    1    0    0    0    0    0    3    0    0    0    0    0
   1    8     0.0913
28 R2 65     3    2    4    0    0    0    0    0    0    0    0    0    0    0    1
   4   14     0.1598
29 R3  3     3    1    0    0    0    0    1    0    4    8    1    0    0    1    0
   0   19     0.2169
30 R3  6     0    1    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    1     0.0114
31 R3 11     0    0    0    0    0    0    0    0    0    1    0    0    0    0    0
   2    3     0.0342
32 R3 16     2    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    2     0.0228
33 R3 32     1    0    0    0    0    0    1    0    0    2    1    0    0    1    0
   1    7     0.0799
34 R3 65     6    0    0    1    0    0    0    0    0    0    0    0    2    0    0
   1   10     0.1142
```

```
35 R4  3     4    3    1    2    0    0    0    1    2    6    2    1    3    1    3
   2   31     0.3539
36 R4  6     2    0    0    0    1    0    1    0    0    1    0    0    0    0    1
   2    8     0.0913
37 R4 11     2    2    1    1    0    1    0    0    0    0    0    1    0    1    0
   3   12     0.1370
38 R4 16     4    1    0    0    0    0    0    0    0    0    0    0    0    2    1
   2   10     0.1142
39 R4 32    13    2    0    0    0    1    0    0    3    1    1    0    1    2    2
   3   29     0.3311
40 R4 65    22    3    1    1    2    1    0    0    0    4    5    4    2    1    2
   9   57     0.6507


              * * * * SUMMARIES * * * *

   R      181   74   36   27   17   11   14   33  136  242   88   38   42   52   38
131 1160   13.2420
   B       47   10    3    2   10   30   32   24   41   15    0    0    0    0    1
 42  257    2.9338
   D      652  307  151  166  231  293  544  372  676  595  157   54   42   46   55
247 4588   52.3744
   E      321  173  118   99   56   34   26   44  113  374  323   97   84   67   67
189 2185   24.9429
   F        5    8    8    8    4    8   10   21   62  217  152   37    8    8    7
  7  570    6.5068
      1    97   75   67   56   40   27   27   46  113  115   81   62   73   73   81
116 1149   13.1164
      2   453  244  150  133   85   76   96  114  198  509  374  115   60   45   45
235 2932   33.4703
      3   348  109   44   66  123  149  207  155  351  336  156   10    1    3    3
117 2178   24.8630
      4   127   68   19   20   51  110  262  144  192  234   21    1    0    0    1
 17 1267   14.4635
      5     0    2    0    0    2    3   20    2   37    7    0    0    0    0    0
  0   73    0.8333
      6     0    0    0    0    0    0    0    0    1    0    0    0    0    0    0
  0    1    0.0114

                * * * * * BIN WINDROSE SUMMARY * * * * *

  BIN                            DIRECTION
                                     TOTAL
          1      2      3      4      5      6      7      8      9     10     11
 12     13     14     15     16
    1  0.266  0.028  0.007  0.014  0.042  0.126  0.105  0.084  0.070  0.000  0.000
0.000  0.000  0.000  0.000  0.259  1.000000
    2  0.079  0.053  0.018  0.000  0.035  0.105  0.149  0.105  0.272  0.132  0.000
0.000  0.000  0.000  0.009  0.044  1.000000
    3  0.098  0.055  0.072  0.026  0.043  0.026  0.021  0.026  0.043  0.038  0.043
0.068  0.077  0.111  0.098  0.157  1.000000
    4  0.179  0.095  0.054  0.056  0.041  0.044  0.057  0.063  0.098  0.101  0.059
0.020  0.016  0.012  0.020  0.088  1.000000
    5  0.151  0.053  0.023  0.034  0.067  0.075  0.112  0.084  0.192  0.129  0.028
0.005  0.001  0.002  0.002  0.042  1.000000
    6  0.097  0.055  0.014  0.018  0.040  0.081  0.219  0.115  0.149  0.191  0.013
0.000  0.000  0.000  0.000  0.008  1.000000
    7  0.000  0.035  0.000  0.000  0.018  0.035  0.333  0.035  0.474  0.070  0.000
0.000  0.000  0.000  0.000  0.000  1.000000
    8  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000000
    9  0.098  0.080  0.061  0.061  0.036  0.018  0.019  0.032  0.080  0.087  0.076
0.047  0.073  0.058  0.073  0.105  1.000000
```

10	0.163	0.087	0.060	0.043	0.020	0.009	0.009	0.017	0.033	0.187	0.171	0.054	0.027	0.022	0.012	0.087	1.000000
11	0.194	0.051	0.015	0.022	0.015	0.011	0.007	0.004	0.048	0.341	0.253	0.004	0.000	0.000	0.000	0.037	1.000000
12	0.263	0.026	0.026	0.000	0.079	0.211	0.000	0.026	0.105	0.105	0.079	0.000	0.000	0.000	0.000	0.079	1.000000
13	0.016	0.021	0.032	0.032	0.021	0.043	0.043	0.091	0.241	0.230	0.086	0.064	0.011	0.027	0.027	0.016	1.000000
14	0.007	0.013	0.007	0.007	0.000	0.000	0.003	0.007	0.052	0.479	0.300	0.078	0.020	0.010	0.007	0.013	1.000000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.355	0.645	0.000	0.000	0.000	0.000	0.000	1.000000
16	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.143	0.071	0.357	0.286	0.071	0.000	0.000	0.000	0.000	1.000000
17	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
18	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
19	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
20	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
21	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
22	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
23	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
24	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
25	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
26	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
27	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
28	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
29	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
30	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
31	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
32	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
33	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
34	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
35	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
36	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
37	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
38	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
39	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
40	0.156	0.064	0.031	0.023	0.015	0.009	0.012	0.028	0.117	0.209	0.076	0.033	0.036	0.045	0.033	0.113	1.000000
41	0.138	0.065	0.036	0.034	0.036	0.043	0.071	0.056	0.117	0.165	0.082						

```
0.026  0.020  0.020  0.019  0.070  1.000000


******** BEGINNING OF CHANGE CASE   1 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  2 OF 8

       *

  222  RDATNAM2001 'EARLY HIGH'

********   RECORD NUMBER   222 REPLACES RECORD NUMBER   123   ********
       *

  223  RDOALARM001   1.36E+04

********   RECORD NUMBER   223 REPLACES RECORD NUMBER   124   ********
  224  RDNUMREL001   1

********   RECORD NUMBER   224 REPLACES RECORD NUMBER   125   ********
  225  RDMAXRIS001   1

********   RECORD NUMBER   225 REPLACES RECORD NUMBER   126   ********
  226  RDREFTIM001   0.0

********   RECORD NUMBER   226 REPLACES RECORD NUMBER   127   ********
  227  RDPLHEAT001   1.08E+06

********   RECORD NUMBER   227 REPLACES RECORD NUMBER   128   ********
  228  RDPLHITE001   30.

********   RECORD NUMBER   228 REPLACES RECORD NUMBER   129   ********
  229  RDPLUDUR001   8.24E+04

********   RECORD NUMBER   229 REPLACES RECORD NUMBER   130   ********
  230  RDPDELAY001   1.32E+04

********   RECORD NUMBER   230 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  231  RDRELFRC001 7.0E-01 2.4E-01 2.3E-01 2.3E-01 2.5E-02 9.1E-02 8.0E-04 4.8E-03
4.6E-02
********   RECORD NUMBER   231 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   1 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   1
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      2.76E+15
Co-60      2.11E+15
Kr-85      2.69E+16
```

Kr-85m	3.37E+17
Kr-87	1.55E+17
Kr-88	6.55E+17
Rb-86	1.90E+15
Sr-89	7.68E+16
Sr-90	7.62E+15
Sr-91	7.40E+16
Sr-92	4.10E+16
Y-90	5.41E+14
Y-91	3.24E+15
Y-92	3.46E+16
Y-93	3.02E+15
Zr-95	4.30E+15
Zr-97	3.72E+15
Nb-95	4.36E+15
Mo-99	5.35E+17
Tc-99m	4.83E+17
Ru-103	4.44E+17
Ru-105	1.72E+17
Ru-106	1.56E+17
Rh-105	2.78E+17
Sb-127	7.76E+16
Sb-129	1.33E+17
Te-127	7.79E+16
Te-127m	1.04E+16
Te-129	1.59E+17
Te-129m	3.45E+16
Te-131m	9.81E+16
Te-132	1.02E+18
I-131	7.59E+17
I-132	1.06E+18
I-133	1.39E+18
I-134	9.50E+16
I-135	9.98E+17
Xe-133	4.34E+18
Xe-135	1.13E+18
Cs-134	1.65E+17
Cs-136	4.79E+16
Cs-137	9.54E+16
Ba-139	4.24E+16
Ba-140	2.56E+17
La-140	2.03E+16
La-141	2.24E+15
La-142	7.95E+14
Ce-141	2.54E+16
Ce-143	2.20E+16
Ce-144	2.01E+16
Pr-143	3.97E+15
Nd-147	1.69E+15
Np-239	3.01E+17
Pu-238	6.91E+13
Pu-239	5.86E+12
Pu-240	8.78E+12
Pu-241	1.98E+15
Am-241	3.95E+11
Cm-242	9.83E+13
Cm-244	1.06E+13

******** BEGINNING OF CHANGE CASE 2 USER INPUT ********
********** RELEASE DATA BLOCK **********

* SOURCE TERM NUMBER 3 OF 8

```
       *

  232  RDATNAM2001 'EARLY MEDIUM'

********   RECORD NUMBER   232 REPLACES RECORD NUMBER   123   ********
       *

  233  RDOALARM001   1.00E+04

********   RECORD NUMBER   233 REPLACES RECORD NUMBER   124   ********
  234  RDNUMREL001   1

********   RECORD NUMBER   234 REPLACES RECORD NUMBER   125   ********
  235  RDMAXRIS001   1

********   RECORD NUMBER   235 REPLACES RECORD NUMBER   126   ********
  236  RDREFTIM001   0.0

********   RECORD NUMBER   236 REPLACES RECORD NUMBER   127   ********
  237  RDPLHEAT001   1.33E+06

********   RECORD NUMBER   237 REPLACES RECORD NUMBER   128   ********
  238  RDPLHITE001   30.

********   RECORD NUMBER   238 REPLACES RECORD NUMBER   129   ********
  239  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   239 REPLACES RECORD NUMBER   130   ********
  240  RDPDELAY001   1.25E+04

********   RECORD NUMBER   240 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  241  RDRELFRC001 9.9E-01 2.0E-02 1.8E-02 2.7E-02 8.3E-04 2.0E-02 4.9E-05 3.3E-04
1.3E-02
********   RECORD NUMBER   241 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   2 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   2
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      6.07E+14
Co-60      4.64E+14
Kr-85      3.80E+16
Kr-85m     4.91E+17
Kr-87      2.43E+17
Kr-88      9.71E+17
Rb-86      1.49E+14
Sr-89      2.55E+15
Sr-90      2.53E+14
Sr-91      2.49E+15
```

```
Sr-92      1.43E+15
Y-90       2.43E+13
Y-91       1.97E+14
Y-92       1.19E+15
Y-93       1.87E+14
Zr-95      2.63E+14
Zr-97      2.30E+14
Nb-95      2.67E+14
Mo-99      1.18E+17
Tc-99m     1.06E+17
Ru-103     9.76E+16
Ru-105     3.91E+16
Ru-106     3.42E+16
Rh-105     6.11E+16
Sb-127     9.13E+15
Sb-129     1.61E+16
Te-127     9.16E+15
Te-127m    1.22E+15
Te-129     1.91E+16
Te-129m    4.05E+15
Te-131m    1.16E+16
Te-132     1.20E+17
I-131      6.33E+16
I-132      1.11E+17
I-133      1.17E+17
I-134      9.24E+15
I-135      8.49E+16
Xe-133     6.10E+18
Xe-135     1.29E+18
Cs-134     1.29E+16
Cs-136     3.75E+15
Cs-137     7.47E+15
Ba-139     1.32E+16
Ba-140     7.25E+16
La-140     4.50E+15
La-141     1.42E+14
La-142     5.32E+13
Ce-141     1.75E+15
Ce-143     1.52E+15
Ce-144     1.38E+15
Pr-143     2.44E+14
Nd-147     1.03E+14
Np-239     2.07E+16
Pu-238     4.75E+12
Pu-239     4.03E+11
Pu-240     6.04E+11
Pu-241     1.36E+14
Am-241     2.42E+10
Cm-242     6.02E+12
Cm-244     6.52E+11


******** BEGINNING OF CHANGE CASE   3 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  4 OF 8

       *

  242  RDATNAM2001 'EARLY LOW'

********   RECORD NUMBER   242 REPLACES RECORD NUMBER   123   ********
       *
```

```
  243  RDOALARM001   1.09E+04

********   RECORD NUMBER   243 REPLACES RECORD NUMBER   124   ********
  244  RDNUMREL001   1

********   RECORD NUMBER   244 REPLACES RECORD NUMBER   125   ********
  245  RDMAXRIS001   1

********   RECORD NUMBER   245 REPLACES RECORD NUMBER   126   ********
  246  RDREFTIM001   0.0

********   RECORD NUMBER   246 REPLACES RECORD NUMBER   127   ********
  247  RDPLHEAT001   1.60E+06

********   RECORD NUMBER   247 REPLACES RECORD NUMBER   128   ********
  248  RDPLHITE001   30.

********   RECORD NUMBER   248 REPLACES RECORD NUMBER   129   ********
  249  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   249 REPLACES RECORD NUMBER   130   ********
  250  RDPDELAY001   1.73E+04

********   RECORD NUMBER   250 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  251  RDRELFRC001 7.6E-01 5.9E-03 4.1E-03 3.9E-03 1.0E-04 2.0E-03 4.6E-06 3.3E-05
7.8E-04
********   RECORD NUMBER   251 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   3 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   3
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      6.07E+13
Co-60      4.64E+13
Kr-85      2.92E+16
Kr-85m     3.06E+17
Kr-87      9.02E+16
Kr-88      5.39E+17
Rb-86      3.38E+13
Sr-89      3.07E+14
Sr-90      3.05E+13
Sr-91      2.73E+14
Sr-92      1.23E+14
Y-90       2.94E+12
Y-91       1.86E+13
Y-92       1.41E+14
Y-93       1.60E+13
Zr-95      2.47E+13
Zr-97      2.04E+13
```

```
Nb-95      2.51E+13
Mo-99      1.16E+16
Tc-99m     1.06E+16
Ru-103     9.75E+15
Ru-105     3.17E+15
Ru-106     3.42E+15
Rh-105     6.05E+15
Sb-127     1.31E+15
Sb-129     1.88E+15
Te-127     1.32E+15
Te-127m    1.76E+14
Te-129     2.33E+15
Te-129m    5.85E+14
Te-131m    1.62E+15
Te-132     1.71E+16
I-131      1.86E+16
I-132      1.97E+16
I-133      3.30E+16
I-134      9.49E+14
I-135      2.18E+16
Xe-133     4.65E+18
Xe-135     8.87E+17
Cs-134     2.95E+15
Cs-136     8.52E+14
Cs-137     1.70E+15
Ba-139     4.06E+14
Ba-140     4.34E+15
La-140     3.72E+14
La-141     1.05E+13
La-142     2.74E+12
Ce-141     1.75E+14
Ce-143     1.48E+14
Ce-144     1.38E+14
Pr-143     2.33E+13
Nd-147     9.67E+12
Np-239     2.04E+15
Pu-238     4.75E+11
Pu-239     4.03E+10
Pu-240     6.04E+10
Pu-241     1.36E+13
Am-241     2.28E+09
Cm-242     5.65E+11
Cm-244     6.12E+10


******** BEGINNING OF CHANGE CASE   4 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  5 OF 8

       *

  252  RDATNAM2001 'LATE HIGH'

********   RECORD NUMBER   252 REPLACES RECORD NUMBER   123   ********
       *

  253  RDOALARM001   5.58E+03

********   RECORD NUMBER   253 REPLACES RECORD NUMBER   124   ********
  254  RDNUMREL001   1

********   RECORD NUMBER   254 REPLACES RECORD NUMBER   125   ********
```

```
  255  RDMAXRIS001   1

********   RECORD NUMBER   255 REPLACES RECORD NUMBER   126   ********
  256  RDREFTIM001   0.5

********   RECORD NUMBER   256 REPLACES RECORD NUMBER   127   ********
  257  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   257 REPLACES RECORD NUMBER   128   ********
  258  RDPLHITE001   30.

********   RECORD NUMBER   258 REPLACES RECORD NUMBER   129   ********
  259  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   259 REPLACES RECORD NUMBER   130   ********
  260  RDPDELAY001   7.38E+04

********   RECORD NUMBER   260 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  261  RDRELFRC001 9.9E-01 1.2E-01 2.3E-02 4.8E-03 2.1E-04 3.7E-03 1.3E-05 1.2E-04
9.1E-04
********   RECORD NUMBER   261 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   4 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   4
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.11E+14
Co-60      8.58E+13
Kr-85      3.80E+16
Kr-85m     5.50E+15
Kr-87      3.27E+10
Kr-88      8.14E+14
Rb-86      1.82E+14
Sr-89      6.35E+14
Sr-90      6.40E+13
Sr-91      7.59E+13
Sr-92      2.16E+11
Y-90       2.19E+13
Y-91       5.30E+13
Y-92       4.34E+12
Y-93       6.78E+12
Zr-95      6.89E+13
Zr-97      1.85E+13
Nb-95      7.08E+13
Mo-99      1.61E+16
Tc-99m     1.54E+16
Ru-103     1.77E+16
Ru-105     7.78E+13
Ru-106     6.31E+15
Rh-105     6.98E+15
```

```
Sb-127     1.31E+15
Sb-129     2.71E+13
Te-127     1.40E+15
Te-127m    2.16E+14
Te-129     4.88E+14
Te-129m    7.06E+14
Te-131m    1.05E+15
Te-132     1.64E+16
I-131      3.42E+17
I-132      1.70E+16
I-133      2.67E+17
I-134      5.97E+06
I-135      2.43E+16
Xe-133     5.27E+18
Xe-135     2.23E+17
Cs-134     1.65E+16
Cs-136     4.50E+15
Cs-137     9.54E+15
Ba-139     4.23E+08
Ba-140     4.75E+15
La-140     2.15E+15
La-141     2.25E+11
La-142     3.03E+07
Ce-141     6.19E+14
Ce-143     3.01E+14
Ce-144     5.01E+14
Pr-143     8.67E+13
Nd-147     2.54E+13
Np-239     5.28E+15
Pu-238     1.73E+12
Pu-239     1.47E+11
Pu-240     2.20E+11
Pu-241     4.94E+13
Am-241     6.69E+09
Cm-242     1.59E+12
Cm-244     1.73E+11


******** BEGINNING OF CHANGE CASE   5 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  6 OF 8

       *

  262  RDATNAM2001 'LATE MEDIUM'

********   RECORD NUMBER   262 REPLACES RECORD NUMBER   123   ********
       *

  263  RDOALARM001   8.94E+03

********   RECORD NUMBER   263 REPLACES RECORD NUMBER   124   ********
  264  RDNUMREL001   1

********   RECORD NUMBER   264 REPLACES RECORD NUMBER   125   ********
  265  RDMAXRIS001   1

********   RECORD NUMBER   265 REPLACES RECORD NUMBER   126   ********
  266  RDREFTIM001   0.5

********   RECORD NUMBER   266 REPLACES RECORD NUMBER   127   ********
  267  RDPLHEAT001   9.20E+05
```

```
********   RECORD NUMBER   267 REPLACES RECORD NUMBER   128   ********
  268  RDPLHITE001   30.

********   RECORD NUMBER   268 REPLACES RECORD NUMBER   129   ********
  269  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   269 REPLACES RECORD NUMBER   130   ********
  270  RDPDELAY001   8.04E+04

********   RECORD NUMBER   270 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  271  RDRELFRC001 8.2E-01 1.5E-02 4.3E-03 1.5E-03 8.0E-05 1.4E-03 5.1E-06 4.7E-05
3.5E-04
********   RECORD NUMBER   271 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   5 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   5
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      4.20E+13
Co-60      3.25E+13
Kr-85      3.15E+16
Kr-85m     3.43E+15
Kr-87      9.97E+09
Kr-88      4.31E+14
Rb-86      3.39E+13
Sr-89      2.42E+14
Sr-90      2.44E+13
Sr-91      2.53E+13
Sr-92      5.15E+10
Y-90       8.69E+12
Y-91       2.08E+13
Y-92       1.17E+12
Y-93       2.34E+12
Zr-95      2.70E+13
Zr-97      6.75E+12
Nb-95      2.78E+13
Mo-99      5.96E+15
Tc-99m     5.73E+15
Ru-103     6.68E+15
Ru-105     2.21E+13
Ru-106     2.39E+15
Rh-105     2.55E+15
Sb-127     4.02E+14
Sb-129     6.32E+12
Te-127     4.33E+14
Te-127m    6.76E+13
Te-129     1.50E+14
Te-129m    2.20E+14
Te-131m    3.15E+14
```

```
Te-132     5.06E+15
I-131      4.25E+16
I-132      5.21E+15
I-133      3.13E+16
I-134      1.75E+05
I-135      2.50E+15
Xe-133     4.27E+18
Xe-135     1.09E+17
Cs-134     3.09E+15
Cs-136     8.37E+14
Cs-137     1.78E+15
Ba-139     6.48E+07
Ba-140     1.82E+15
La-140     8.58E+14
La-141     6.39E+10
La-142     5.21E+06
Ce-141     2.42E+14
Ce-143     1.13E+14
Ce-144     1.96E+14
Pr-143     3.43E+13
Nd-147     9.92E+12
Np-239     2.02E+15
Pu-238     6.77E+11
Pu-239     5.76E+10
Pu-240     8.60E+10
Pu-241     1.94E+13
Am-241     2.63E+09
Cm-242     6.23E+11
Cm-244     6.78E+10


******** BEGINNING OF CHANGE CASE   6 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  7 OF 8

       *

  272  RDATNAM2001 'LATE LOW'

********   RECORD NUMBER   272 REPLACES RECORD NUMBER   123   ********
       *

  273  RDOALARM001   2.19E+04

********   RECORD NUMBER   273 REPLACES RECORD NUMBER   124   ********
  274  RDNUMREL001   1

********   RECORD NUMBER   274 REPLACES RECORD NUMBER   125   ********
  275  RDMAXRIS001   1

********   RECORD NUMBER   275 REPLACES RECORD NUMBER   126   ********
  276  RDREFTIM001   0.5

********   RECORD NUMBER   276 REPLACES RECORD NUMBER   127   ********
  277  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   277 REPLACES RECORD NUMBER   128   ********
  278  RDPLHITE001   30.

********   RECORD NUMBER   278 REPLACES RECORD NUMBER   129   ********
  279  RDPLUDUR001   8.64E+04
```

```
********   RECORD NUMBER   279 REPLACES RECORD NUMBER   130   ********
  280  RDPDELAY001   9.90E+04

********   RECORD NUMBER   280 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  281  RDRELFRC001 7.0E-01 1.1E-03 7.9E-04 1.2E-03 8.7E-05 3.5E-06 2.6E-06 2.4E-05
7.4E-05
********   RECORD NUMBER   281 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   6 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   6
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	1.05E+11
Co-60	8.12E+10
Kr-85	2.69E+16
Kr-85m	1.32E+15
Kr-87	5.09E+08
Kr-88	1.04E+14
Rb-86	6.18E+12
Sr-89	2.62E+14
Sr-90	2.65E+13
Sr-91	1.89E+13
Sr-92	1.49E+10
Y-90	9.77E+12
Y-91	1.10E+13
Y-92	4.77E+11
Y-93	8.38E+11
Zr-95	1.37E+13
Zr-97	2.78E+12
Nb-95	1.42E+13
Mo-99	1.41E+13
Tc-99m	1.36E+13
Ru-103	1.66E+13
Ru-105	2.47E+10
Ru-106	5.97E+12
Rh-105	5.76E+12
Sb-127	3.10E+14
Sb-129	2.21E+12
Te-127	3.35E+14
Te-127m	5.41E+13
Te-129	1.17E+14
Te-129m	1.75E+14
Te-131m	2.24E+14
Te-132	3.86E+15
I-131	3.09E+15
I-132	3.98E+15
I-133	1.93E+15
I-134	2.16E+02
I-135	1.07E+14
Xe-133	3.54E+18

```
Xe-135     5.80E+16
Cs-134     5.67E+14
Cs-136     1.52E+14
Cs-137     3.28E+14
Ba-139     1.02E+06
Ba-140     3.80E+14
La-140     2.03E+14
La-141     1.31E+10
La-142     2.60E+05
Ce-141     1.23E+14
Ce-143     5.19E+13
Ce-144     1.00E+14
Pr-143     1.79E+13
Nd-147     4.99E+12
Np-239     9.70E+14
Pu-238     3.46E+11
Pu-239     2.94E+10
Pu-240     4.39E+10
Pu-241     9.89E+12
Am-241     1.35E+09
Cm-242     3.18E+11
Cm-244     3.46E+10


******** BEGINNING OF CHANGE CASE   7 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  8 OF 8

       *

  282  RDATNAM2001 'LATE LOWLOW'

********   RECORD NUMBER   282 REPLACES RECORD NUMBER   123   ********
       *

  283  RDOALARM001   2.56E+04

********   RECORD NUMBER   283 REPLACES RECORD NUMBER   124   ********
  284  RDNUMREL001   1

********   RECORD NUMBER   284 REPLACES RECORD NUMBER   125   ********
  285  RDMAXRIS001   1

********   RECORD NUMBER   285 REPLACES RECORD NUMBER   126   ********
  286  RDREFTIM001   0.5

********   RECORD NUMBER   286 REPLACES RECORD NUMBER   127   ********
  287  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   287 REPLACES RECORD NUMBER   128   ********
  288  RDPLHITE001   30.

********   RECORD NUMBER   288 REPLACES RECORD NUMBER   129   ********
  289  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   289 REPLACES RECORD NUMBER   130   ********
  290  RDPDELAY001   1.13E+05

********   RECORD NUMBER   290 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
```

```
  291  RDRELFRC001 9.1E-01 8.1E-04 7.0E-04 7.6E-04 3.6E-05 2.1E-06 1.1E-06 1.2E-05
3.3E-05
********   RECORD NUMBER   291 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   7 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   7
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	6.27E+10
Co-60	4.87E+10
Kr-85	3.49E+16
Kr-85m	9.37E+14
Kr-87	7.95E+07
Kr-88	5.25E+13
Rb-86	5.44E+12
Sr-89	1.08E+14
Sr-90	1.10E+13
Sr-91	5.88E+12
Sr-92	2.28E+09
Y-90	4.34E+12
Y-91	4.66E+12
Y-92	9.41E+10
Y-93	2.72E+11
Zr-95	5.80E+12
Zr-97	1.00E+12
Nb-95	5.99E+12
Mo-99	8.14E+12
Tc-99m	7.83E+12
Ru-103	9.95E+12
Ru-105	8.07E+09
Ru-106	3.58E+12
Rh-105	3.20E+12
Sb-127	1.90E+14
Sb-129	7.49E+11
Te-127	2.07E+14
Te-127m	3.43E+13
Te-129	7.29E+13
Te-129m	1.11E+14
Te-131m	1.29E+14
Te-132	2.36E+15
I-131	2.24E+15
I-132	2.44E+15
I-133	1.25E+15
I-134	7.35E+00
I-135	5.23E+13
Xe-133	4.50E+18
Xe-135	5.59E+16
Cs-134	5.02E+14
Cs-136	1.34E+14
Cs-137	2.90E+14
Ba-139	6.43E+04
Ba-140	1.68E+14
La-140	9.55E+13

```
La-141     2.79E+09
La-142     1.92E+04
Ce-141     6.13E+13
Ce-143     2.39E+13
Ce-144     5.01E+13
Pr-143     8.22E+12
Nd-147     2.09E+12
Np-239     4.62E+14
Pu-238     1.73E+11
Pu-239     1.47E+10
Pu-240     2.20E+10
Pu-241     4.94E+12
Am-241     5.80E+08
Cm-242     1.34E+11
Cm-244     1.46E+10


USER INPUT IS READ FROM UNIT 25
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE

       *

    1  MIEANAM1001 'EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES'

    2  DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)

       *

       *             ORGNAM         ORGFLG

       *

    3  MIORGDEF001  'A-SKIN'        .TRUE.

    4  MIORGDEF002  'A-RED MARR'    .TRUE.

    5  MIORGDEF003  'A-LUNGS'       .TRUE.

    6  MIORGDEF004  'A-THYROIDH'    .TRUE.

    7  MIORGDEF005  'A-STOMACH'     .TRUE.

    8  MIORGDEF006  'A-LOWER LI'    .FALSE.  (does not contribute to early
fatalities)
    9  MIORGDEF007  'L-EDEWBODY'    .TRUE.

   10  MIORGDEF008  'L-RED MARR'    .TRUE.

   11  MIORGDEF009  'L-BONE SUR'    .TRUE.

   12  MIORGDEF010  'L-BREAST'      .TRUE.

   13  MIORGDEF011  'L-LUNGS'       .TRUE.

   14  MIORGDEF012  'L-THYROID'     .TRUE.
```

```
15  MIORGDEF013  'L-LOWER LI'    .TRUE.
16  MIORGDEF014  'L-BLAD WAL'    .TRUE.
17  MIORGDEF015  'L-LIVER'       .FALSE.
18  MIORGDEF016  'L-THYROIDH'    .TRUE.
    *
    * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
    *
19  MIENDAT2001  .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
    *
    * DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
    *                                2  *  WIND-SHIFT WITH ROTATION
    *                                3  *  WIND-SHIFT WITHOUT ROTATION
    *
20  MIIPLUME001  2
    *
    * NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
    *
21  MINUMFIN001  7    (3, 5 OR 7 ALLOWED)
    *
    * LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
    *
22  MIIPRINT001  0
    *
    * LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
    * BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
    *
    *             RISBIN
    *
23  MIRISCAT001   .FALSE.
    *
    * FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
```

```
      *
   24 MIOVRRID001  .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
*****************************************************************************
      * POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
      *
   25 PDPOPFLG001  FILE
      *
      *PDPOPFLG001  UNIFORM
      *PDIBEGIN001  1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
      *PDPOPDEN001  50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))
*****************************************************************************
      * SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
      *
      * THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
      * ONE FOR EACH TYPE OF ACTIVTY:
      *
      * ACTIVITY TYPE:
      *     1 - EVACUEES WHILE MOVING
      *     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
      *     3 - SHELTERED ACTIVITY
      *
      * CLOUD SHIELDING FACTOR
      *
      *    SITE        GG   PB   SEQ  SUR  ZION
      *    SHELTERING  0.7  0.5  0.65 0.6  0.5
      *
      *            EVACUEES  NORMAL  SHELTER
      *
   26 SECSFACT001      1.     0.75     0.6   *  SURRY SHELTERING VALUE
      *
      * PROTECTION FACTOR FOR INHALATION
```

```
    *
27  SEPROTIN001      1.     0.41      0.33  * VALUES FOR NORMAL ACTIVITY AND
    *                                          SHELTERING SELECTED BY NRC STAFF
    *
    * BREATHING RATE (CUBIC METERS PER SECOND)
    *
28  SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
    *
    * SKIN PROTECTION FACTOR
    *
29  SESKPFAC001  1.0      0.41     0.33    * VALUES FOR NORMAL ACTIVITY AND
    *                                         SHELTERING SELECTED BY NRC STAFF
    *
    * GROUND SHIELDING FACTOR
    *
    *    SITE        GG   PB   SEQ  SUR  ZION
    *    SHELTERING  0.25 0.1  0.2  0.2  0.1
    *
30  SEGSHFAC001      0.5    0.4    0.2   * VALUE FOR NORMAL ACTIVITY SELECTED BY
    *                                        NRC STAFF
    *
    * RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
    *
    *   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
    *   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
    *   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
    *   USED IN CHRONC.
    *
31  SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
    *
    * RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
```

```
     *
32   SERESHAF001   1.82E5    (2.11 DAYS)
*****************************************************************************
     * EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
     *
     * SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
     *
33   EZEANAM2001  'NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE'
     *
     * THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
     * YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
     *
34   EZWTNAME001  'PEOPLE'
     *
     * WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
     *
35   EZWTFRAC001  1.00
     *
     * LAST RING IN THE MOVEMENT ZONE
     *
36   EZLASMOV001     0   (A ZERO TURNS OFF THE EVACUATION MODEL)
     *
     ********************************************************************
     * SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
     *                                         STORED IN /INPSRZ/, /RELOCA/
     *
     * DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
     *
37   SRENDEMP001  604800.   (ONE WEEK)
     *
     * CRITICAL ORGAN FOR RELOCATION DECISIONS
```

```
     *
38   SRCRIORG001 'L-EDEWBODY'
     *
     * HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
39   SRTIMHOT001  43200.    (ONE-HALF DAY)
     *
     * NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
40   SRTIMNRM001  86400.    (ONE DAY)
     *
     * HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
41   SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
     *
     * NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
42   SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
     * EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
     *
     * NUMBER OF EARLY FATALITY EFFECTS
     *
43   EFNUMEFA001   2
     *
     *            ORGNAM       EFFACA   EFFACB   EFFTHR
     *
44   EFATAGRP001 'A-RED MARR'      3.8      5.0    1.5
45   EFATAGRP002 'A-LUNGS'        10.0      7.0    5.0
*******************************************************************************
     * EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
```

```
*
* NUMBER OF EARLY INJURY EFFECTS
*
EINUMEIN001  7
*
*            EINAME           ORGNAM   EISUSC EITHRE EIFACA EIFACB
*
EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3
*******************************************************************************
* ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
*
* NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
*
LCNUMACA001   7
*
* THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
*
LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
*
* DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
*
LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
*
*            ACNAME     ORGNAM  ACSUSC DOSEFA DOSEFB CFRISK   CIRISK  DDREFA
*
```

```
57  LCANCERS001 'LEUKEMIA' 'L-RED MARR'  1.0   1.0   0.0   9.70E-3   0.0     2.0
58  LCANCERS002 'BONE'     'L-BONE SUR'  1.0   1.0   0.0   9.00E-4   0.0     2.0
59  LCANCERS003 'BREAST'   'L-BREAST'    1.0   1.0   0.0   5.40E-3   1.7E-2  1.0
60  LCANCERS004 'LUNG'     'L-LUNGS'     1.0   1.0   0.0   1.55E-2   0.0     2.0
61  LCANCERS005 'THYROID'  'L-THYROIDH'  1.0   1.0   0.0   7.20E-4   7.2E-3  1.0
62  LCANCERS006 'GI'       'L-LOWER LI'  1.0   1.0   0.0   3.36E-2   0.0     2.0
63  LCANCERS007 'OTHER'    'L-EDEWBODY'  1.0   1.0   0.0   2.76E-2   0.0     2.0

*******************************************************************************
    * RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
    * TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
    *
    * NUMBER OF DESIRED RESULTS OF THIS TYPE
    *
64  TYPE1NUMBER    4
    *
65  TYPE1OUT001    'ERL FAT/TOTAL'                1  15   NOCCDF (0 TO 50 MILES)
66  TYPE1OUT009    'CAN FAT/TOTAL'                1  15   NOCCDF
67  TYPE1OUT019    'CAN FAT/TOTAL'                1  11   NOCCDF (0 TO 10 MILES)
68  TYPE1OUT020    'ERL FAT/TOTAL'                1  11          (0 TO 10 MILES)

*******************************************************************************
    * RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
    * FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
    *
    * NUMBER OF DESIRED RESULTS OF THIS TYPE
    *
69  TYPE2NUMBER  0
    *
    *            FATALITY RISK THRESHOLD
    *
    *TYPE2OUT001  0.
```

```
*****************************************************************************
      * RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
      * NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   70 TYPE3NUMBER  0
      *
      *               ORGAN NAME   DOSE THRESHOLD (Sv)
      *
      *TYPE3OUT001    'A-RED MARR'        1.5
      *TYPE3OUT002    'A-LUNGS'           5.0
      *TYPE3OUT003    'L-EDEWBODY'        0.05

*****************************************************************************
      * RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
      * 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
      *
      * POSSIBLE TYPES OF EFFECTS ARE:
      *
      *   'ERL FAT/TOTAL'
      *   'ERL INJ/INJURY NAME'
      *   'CAN FAT/CANCER NAME'
      *   'CAN FAT/TOTAL'
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   71 TYPE4NUMBER  3
      *
      *            RADIAL INDEX   TYPE OF EFFECT
      *
   72 TYPE4OUT001       1         'ERL FAT/TOTAL'
```

```
   73  TYPE4OUT002       2         'ERL FAT/TOTAL'
   74  TYPE4OUT003       3         'ERL FAT/TOTAL'

*****************************************************************************
       * RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
       *
       * TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   75  TYPE5NUMBER     1
       *
       *             ORGAN      I1DIS5     I2DIS5
       *
   76  TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)

*****************************************************************************
       * RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
       *
       * CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS
FOLLOWS:
       *
       *  PATHWAY NAME:
       *    'CLD'     - CLOUDSHINE
       *    'GRD'     - GROUNDSHINE
       *    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
       *    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE
CLOUD
       *    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
       *    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
       *    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
       *    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
```

```
     *
  77 TYPE6NUMBER     0
     *
     *             ORGNAM        PATHNM      I1DIS6   I2DIS6
     *
     *TYPE6OUT001  'A-RED MARR'    'TOT ACU'      1       19     (0-50 MILES)
     *TYPE6OUT002  'A-LUNGS'       'TOT ACU'      1       19     (0-50 MILES)
     *TYPE6OUT003  'L-EDEWBODY'    'TOT LIF'      1       26     (0-1000 MILES)

*******************************************************************************
     * RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
     *
     * CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  78 TYPE7NUMBER   0
     *
     *                    NAME           I1DIS7       I2DIS7
     *
     *TYPE7OUT001     'ERL FAT/TOTAL'        1           19       (0-50 MILES)
     *TYPE7OUT002     'CAN FAT/TOTAL'        1           26       (0-1000 MILES)

*******************************************************************************
     * RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
     *
     * POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  79 TYPE8NUMBER   2
     *
     *                NAME       I1DIS8  I2DIS8
```

```
       *
   80  TYPE8OUT001 'ERL FAT/TOTAL'   1       3     NOCCDF
   81  TYPE8OUT002 'CAN FAT/TOTAL'   1      11     NOCCDF  (0-10 MILES)

*******************************************************************************
       * RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/
       *
       * peak dose to a given organ
       *
       *            NUMA
   82  TYPEANUMBER   0
       *
       *              ORGNAM    I1DISA  I2DISA
       *TYPEAOUT001 'L-EDEWBODY'  1       15
       .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  341
NUMBER OF BLANK OR COMMENT RECORDS READ         =  258
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   82
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   82
*******************************************************************************
****************



The list of defined organs is as follows (A- is ACUTE and L- is LIFETIME):
   A-SKIN
   A-RED MARR
   A-LUNGS
   A-THYROIDH
   A-STOMACH
   L-EDEWBODY
   L-RED MARR
   L-BONE SUR
   L-BREAST
   L-LUNGS
   L-THYROID
   L-LOWER LI
   L-BLAD WAL
   L-THYROIDH
Am using a DOSFAC/DOSFAC2/IDCF2 dose factor file
```

```
READING FROM A DOSE CONVERSION FILE WITH THE FOLLOWING HEADER:
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1

NO EVACUATION REQUESTED


USING THE FOLLOWING SITE DATA FILE:

MACCS2 Site Data File for Indian Point Energy Center
SITE FILE
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   7 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   1 WATERSHEDS
  21 ECONOMIC REGIONS
 SPATIAL DISTANCES     KILOMETERS
    0.3219    1.6093    3.2187    4.8280    6.4374    8.0467    9.6561   11.2654
   12.8748   14.4841   16.0935   32.1869   48.2804   64.3739   80.4674
 POPULATION
        6.        0.      271.     2059.     2501.      909.      931.     1223.
     1389.     1503.     1696.    22955.    30654.    39620.    51057.0
       16.        7.      170.     1943.     2912.     2051.     1177.     1388.
     1577.     1798.     1913.    28140.    39917.    56226.    67213.0
       17.      193.      883.     2131.     2964.     3843.     3910.     3059.
     2464.     1998.     1915.    29419.    53692.    62559.    41261.0
       17.      364.     1275.     2132.     2977.     3453.     4507.     5282.
     6140.     6960.     7279.    74856.   119073.   152175.   176338.0
       17.      390.     1218.     2138.     2934.     3792.     4424.     5513.
     5587.     7201.     8076.   118335.   156720.   200581.   208394.0
       17.      409.     1256.     2136.     2970.     3592.     3698.     3857.
     5734.     6783.     7409.   121515.   144267.    54180.    34361.0
       17.      410.     1274.     2138.     2872.     3808.     4537.     5279.
     6284.     7194.     8060.   111946.    87735.   236426.   379990.0
       17.      360.     1268.     1645.      882.      495.       15.     1442.
      948.     1911.     3214.    98326.   481703.  1380249.  1218170.0
       17.      400.      701.      246.      124.      620.     1538.     3253.
     4129.     4455.     5138.   135211.  1164596.  3732339.  3164306.0
       17.      377.      562.      500.     1700.     2882.     3544.     4187.
     4873.     5517.     6159.   202605.   395389.   922649.  1034467.0
       17.      217.      187.     1566.     2274.     2916.     3574.     4188.
     4361.     5358.     6138.   183372.   276902.   197362.   246076.0
        9.        0.      620.     1623.     2197.     2924.     3550.     4014.
     4196.     4255.     4335.    64428.   209197.   109102.    85849.0
        3.        0.      855.     1602.     2267.     2815.     2368.     1787.
     1423.     1775.     2030.    32026.    50974.    61380.    57384.0
        2.        0.      938.     1624.     2245.     1341.     1135.     1419.
     1505.     1756.     2071.    32528.    54577.    57977.    29719.0
        2.       45.      974.     1589.     1933.      972.     1140.     1351.
     1541.     1781.     2093.    32572.    54557.    24046.    22317.0
        3.       50.      809.     1051.     1587.      740.     1204.     1407.
     1620.     1787.     2028.    31660.    32569.    27599.    34374.0
 LAND FRACTION
 0.37 0.00 0.23 0.96 0.99 0.94 0.78 0.87 0.85 0.81 0.82 0.83 0.94 0.94 0.93
 0.92 0.02 0.13 0.91 0.97 0.98 1.00 1.00 0.98 0.99 0.94 0.95 0.99 0.99 0.98
 1.00 0.47 0.69 1.00 0.99 1.00 0.98 0.96 0.95 1.00 0.94 0.91 0.94 0.95 0.96
 1.00 0.89 0.99 1.00 0.99 0.90 0.96 0.95 0.96 0.96 0.97 0.91 0.92 0.95 0.98
 1.00 0.95 0.95 1.00 0.98 0.99 0.94 0.99 0.87 0.99 0.99 0.92 0.97 0.97 0.78
 1.00 1.00 0.98 1.00 0.99 0.93 0.79 0.69 0.89 0.93 0.91 0.97 0.95 0.27 0.12
 1.00 1.00 0.99 1.00 0.96 0.99 0.96 0.95 0.98 0.99 0.99 0.93 0.53 0.48 0.98
 1.00 0.88 0.99 0.77 0.29 0.13 0.00 0.26 0.16 0.30 0.43 0.77 0.70 0.79 0.82
 1.00 0.97 0.55 0.12 0.05 0.21 0.43 0.77 0.85 0.81 0.83 0.84 0.87 0.81 0.59
```

```
 1.00 0.92 0.44 0.31 0.75 0.99 0.99 0.99 1.00 1.00 1.00 0.99 0.99 0.93 0.92
 1.00 0.53 0.18 0.96 1.00 1.00 1.00 0.99 0.89 0.97 0.99 0.98 0.93 0.90 0.94
 0.52 0.00 0.64 1.00 0.97 1.00 0.99 0.95 0.91 0.92 0.94 0.94 0.93 0.97 0.94
 0.19 0.00 0.88 0.99 1.00 1.00 1.00 0.98 0.86 0.95 0.97 0.97 0.98 0.97 0.97
 0.13 0.00 0.96 1.00 1.00 0.99 0.94 0.99 0.91 0.94 0.99 0.98 0.99 0.97 0.95
 0.14 0.14 1.00 0.98 0.99 0.98 0.94 0.94 0.93 0.95 1.00 0.98 0.99 0.99 0.96
 0.20 0.16 0.83 0.57 0.65 0.75 0.99 0.98 0.98 0.95 0.97 0.96 0.96 0.99 0.96
 REGION INDEX
20212020201414141413140606060 6
20212020201414141414141406060 6
20202020202020141414141406030 3
20202020202020202020202001010 4
20202020202020202020202001010 4
20202020202020202020202001011 7
20202020202020202020202001121 7
20202020202021202020202020121 2
20202020211616161616161602151 1
20202016161616161616161602020 5 10
20201616161616161616161608070 7
20211616161616161616161613080 9 09
20211616161613131313131313130 9 09
20211616161313131313131313131 8
20161616161313131313131313131 8 18
20161616201313131313131319191 9
 WATERSHED INDEX
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 CROP SEASON AND SHARE
   1 PASTURE               90. 270.  0.0162
   2 STORED FORAGE        150. 240.  0.0480
   3 GRAINS               150. 240.  0.0079
   4 GRN LEAFY VEGETABLES 150. 240.  0.0005
   5 OTHER FOOD CROPS     150. 240.  0.0036
   6 LEGUMES AND SEEDS    150. 240.  0.0002
   7 ROOTS AND TUBERS     150. 240.  0.0018
 WATERSHED DEFINITION  -- INITIAL AND ANNUAL WASHOFF AND INGESTION FACTORS
   1 Sr-89                           5.00E-06
   2 Sr-90                           5.00E-06
   3 Cs-134                          5.00E-06
   4 Cs-137                          5.00E-06
 REGIONAL ECONOMIC DATA
  01 FAIRFIELD      0.032 .008    5831.0   66592.0  287881.0
  02 BERGEN         0.009 .000   14568.0  124496.0  262186.0
  03 LITCHFIELD     0.159 .371     795.0   22373.0  186016.0
  04 NEWHAVEN       0.067 .029    5439.0   36942.0  192427.0
  05 ESSEX          0.002 .000   11903.0  120139.0  197400.0
  06 DUTCHESS       0.219 .207     698.0   16206.0  169417.0
  07 MORRIS         0.057 .006    6005.0   67365.0  277661.0
  08 PASSAIC        0.013 .000    9836.0   81944.0  161864.0
```

```
  09 SUSSEX         0.226 .311     483.0   18496.0  165741.0
  10 UNION          0.003 .000   91646.0  243939.0  209708.0
  11 KINGS          0.000 .000       0.0       0.0  123701.0
  12 NASSAU         0.006 .000   18237.0   88422.0  239932.0
  13 ORANGE         0.207 .288    1516.0   13148.0  148873.0
  14 PUTNAM         0.045 .000     892.0   24525.0  180274.0
  15 QUEENS         0.000 .000       0.0       0.0  226728.0
  16 ROCKLAND       0.011 .047    6365.0   65755.0  203359.0
  17 SUFFOLK        0.058 .000   14567.0   54566.0  192471.0
  18 SULLIVAN       0.103 .233    1466.0    7911.0  139374.0
  19 ULSTER         0.116 .043    1019.0    9908.0  138739.0
  20 WESTCHESTR     0.036 .009    2206.0   39116.0  263389.0
  21 WATER          0.000 .000       0.0       0.0       0.0
POPULATION

>>The Record Identifier TYPEBNUMBER was not found:
>>Type B results not being generated



USER INPUT IS READ FROM UNIT 26
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE

       *

    1  CHCHNAME001 'CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model'

*******************************************************************************

       * EMERGENCY RESPONSE COST DATA BLOCK

       *

       * DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)

       *

    2  CHEVACST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

       *

       * DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)

       *

    3  CHRELCST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

*******************************************************************************

       * LONG TERM PROTECTIVE ACTION DATA BLOCK

       *
```

```
      * Duration of the intermediate phase period--at version 1.11c TMIPND is no
      * longer processed.  The new input variable DUR_INTPHAS is the period's
      * duration, not the time after plume arrival at which the period ends.
      *
    4 DUR_INTPHAS   0.0    (in seconds)   (no intermediate phase)
      *
      * LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
      * PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
      *
    5 CHTMPACT001   1.58E8             (5 YEARS)
      *
      * DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
      *
    6 CHDSCRTI001   1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
      *
      * DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
      *
    7 CHDSCRLT001    0.04
      *
      * CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
      *
    8 CHCRTOCR001 'L-EDEWBODY'
      *
      * Long Term Exposure Period    Previously permanently set to:
      *    one million years = 3.15 E13 seconds
      *    MACCS2 allowable range is 3.15E7 to 1.E10
      *
    9 CHEXPTIM001    9.45E8
*******************************************************************************
      * DECONTAMINATION PLAN DATA BLOCK
      *
```

```
     * NUMBER OF LEVELS OF DECONTAMINATION
     *
  10 CHLVLDEC001  2
     *
     * DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
     *  (SECONDS)
     *
  11 CHTIMDEC001   5.184E6  1.0368E7    (60, 120 DAYS)
     *
     * DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF
DECONTAMINATION
     *
  12 CHDSRFCT001   3.      15.
     *
     * COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  13 CHCDFRM0001   972.   2160.
     *
     * COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  14 CHCDNFRM001   5184.   13824.
     *
     * FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  15 CHFRFDL0001  .3      .35
     *
     * FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  16 CHFRNFDL001  .7      .5
```

```
      *
      * FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   17 CHTFWKF0001  .10     .33
      *
      * FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   18 CHTFWKNF001  .33     .33
      *
      * AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
      *
   19 CHDLBCST001   60480.
*******************************************************************************
      * INTERDICTION COST DATA BLOCK
      *
      * DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
      *
   20 CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER
YEAR)
      * THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
      *
   21 CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * POPULATION RELOCATION COST (DOLLARS/PERSON):
      *  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
      *  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
      *
   22 CHPOPCST001   8640.
```

```
*****************************************************************************
      * GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
      *
  23  CHNGWTRM001   2
      *
      * GROUNDSHINE WEATHERING COEFFICIENTS
      *
  24  CHGWCOEF001   0.5    0.5            (JON HELTON)
      *
      * HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
      *
  25  CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*****************************************************************************
      * RESUSPENSION WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
      *
  26  CHNRWTRM001    3
      *
      * RESUSPENSION CONCENTRATION COEFFICIENTS   (/ METER)
      *  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
      *
  27  CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
      *
      * HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
      *
  28  CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*****************************************************************************
```

```
     * SITE REGION DESCRIPTION DATA BLOCK
     *
     * FRACTION OF AREA THAT IS LAND IN THE REGION
     *
  29 CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
     *
  30 CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
     *  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN
FARMS)
     *
  31 CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
     *  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME
CONSUMPTION)
     *
  32 CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * VALUE OF FARM WEALTH (DOLLARS/HECTARE)
     *  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
     *
  33 CHVALWF0001    50071.
     *
     * FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
     *
  34 CHFRFIM0001   0.25
     *
     * NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
     *  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
```

```
*  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
*
35  CHVALWNF001    208838.
*
* FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
*
36  CHFRNFIM001   0.8
*******************************************************************************
37  CHFDPATH001 'NEW'
*
* name of the COMIDA2 binary output file
*
38  BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
*
* Dose limits triggering first year crop disposal of the separate
* milk and non-milk components of the diet, corresponding in purpose,
* more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
*
* For NUREG-1150 calculations, the maximum allowable ground concentrations
for
* production of milk and non-milk crops contaminated by an accident occurring
* in the growing season were derived based on an assumed maximum allowable
* dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
* reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
* the prior results, it is being assumed, for simplicity, that milk and
* non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
* effective dose limit used in NUREG-1150 is equally split between milk and
* non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
* thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
* portions of the diet.
*
*             effective     thyroid  (doses in sieverts)
39  DOSEMILK001    0.025          0.075
```

```
40  DOSEOTHR001    0.025          0.075
    *
    * Annual dose limits for the subsequent year's (i.e., after the first year)
    * interdiction of BOTH the milk and non-milk (combined) components of the
diet
    *
    * Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
    * an ingestion dose integrated from zero to infinity.  It is not possible to
    * translate those parameter values into corresponding annual dose limits, as
is
    * required by the COMIDA2-based food model.  The "total" dose limits used in
    * NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are
used
    * here as annual dose limits for interdiction of food production in years the
    * years subsequent to the accident.
    *
    *             effective     thyroid  (doses in sieverts)
41  DOSELONG001    0.005          0.015
    *
    * NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
    *
42  CHNUMWPI001    4
    *
    * TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
    *
    * IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
    *  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
    *
    *                        INITIAL     ANNUAL    INGESTION FACTOR
    *             WATER      WASHOFF     WASHOFF    ((Bq INGESTED)/
    *            NUCLIDE     FRACTION     RATE       (Bq IN WATER))
    *
    *             NAMWPI      WSHFRI      WSHRTA         WINGF
43  CHWTRISO001   Sr-89        0.01       0.004          5.0E-6
```

```
44  CHWTRISO002   Sr-90        0.01       0.004          5.0E-6
45  CHWTRISO003   Cs-134       0.005      0.001          5.0E-6
46  CHWTRISO004   Cs-137       0.005      0.001          5.0E-6

*****************************************************************************
      * SPECIAL OPTIONS DATA BLOCK
      *
      * DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING
ON!!
      *          KSWDSC
      *
47  CHKSWTCH001   0

*****************************************************************************
      * DEFINE THE TYPE 9 RESULTS
      *
      * LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
48  TYPE9NUMBER   1      (UP TO 10 ALLOWED)
      *
      *              ORGNAM        INNER      OUTER
      *
49  TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)

*****************************************************************************
      * ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
50  TYP10NUMBER   1      (UP TO 10 ALLOWED)
```

```
       *
       *               INNER      OUTER
       *
   51  TYP10OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
       *
       * SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
       * A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE
OUTPUT.
       *
   52  TYP11FLAG11  .FALSE.
*****************************************************************************
       * IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF
IMPACTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
       *
   53  TYP12NUMBER   0      (UP TO 10 ALLOWED)
       *
       *               INNER      OUTER
       *
       *TYP12OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * Maximal annual food ingestion dose to an individual, requested by IXOT13
       *
       * This result is calculated after accounting for temporary or
       * permanent interdiction.  It is only available for the "new" food model.
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       *
```

```
  54  TYP13NUMBER   0   (UP TO 10 ALLOWED)
      *
      * IRAD13 is the radial spatial interval at which results are requested
      *
      * ORGN13 is the name of the organ for which results are requested
      *  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
      *
      *          IRAD13   ORGN13
      *
      *TYP13OUT001   2    EFFECTIVE
      *TYP13OUT002   4    EFFECTIVE
      *TYP13OUT003   6    EFFECTIVE
      *TYP13OUT004   8    EFFECTIVE
      *TYP13OUT005  10    EFFECTIVE
      *TYP13OUT006  12    EFFECTIVE
      *TYP13OUT007  15    EFFECTIVE
      *TYP13OUT008   2    THYROID
      *TYP13OUT009   4    THYROID
      *TYP13OUT010   6    THYROID
      *TYP13OUT011   8    THYROID
      *TYP13OUT012  10    THYROID
      *TYP13OUT013  12    THYROID
      *TYP13OUT014  15    THYROID
      .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********

USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  318
NUMBER OF BLANK OR COMMENT RECORDS READ         =  263
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   54
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   54
*******************************************************************************
****************
```

```
COMIDA2 binary file header =
COMIDA2 01/14/2004 13:06:02   Version 1.11.1, 01/12/2004

COMIDA2 descriptive title  =
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47

Seven new organs added with MACCS Version 1.5.11.1


A SITE DATA FILE IS BEING USED FOR BOTH "EARLY" AND "CHRONC"

 7 CANCER EFFECTS ARE DEFINED IN THE MODEL.
    INDEX  CANCER EFFECT                    ORGAN       ALPHA       BETA     CFRISK
   CIRISK
       1                       LEUKEMIA     L-RED MARR   1.000E+00  0.000E+00
9.700E-03  0.000E+00
       2                       BONE         L-BONE SUR   1.000E+00  0.000E+00
9.000E-04  0.000E+00
       3                       BREAST       L-BREAST     1.000E+00  0.000E+00
5.400E-03  1.700E-02
       4                       LUNG         L-LUNGS      1.000E+00  0.000E+00
1.550E-02  0.000E+00
       5                       THYROID      L-THYROIDH   1.000E+00  0.000E+00
7.200E-04  7.200E-03
       6                       GI           L-LOWER LI   1.000E+00  0.000E+00
3.360E-02  0.000E+00
       7                       OTHER        L-EDEWBODY   1.000E+00  0.000E+00
2.760E-02  0.000E+00

  TIME OF HOTSPOT RELOCATION IS 4.3200E+04.
  TIME OF NORMAL RETURN IS  8.640E+04 AND THE EMERGENCY PHASE ENDS AT  6.048E+05.


GROUNDSHINE SHIELDING FACTOR   = 0.400

RESUSPENSION PROTECTION FACTOR = 0.410

BREATHING RATE (CUBIC M/S) =   2.660E-04

  DISPERSION MODEL FLAG IS  2

  WINDROSE PROBABILITIES BY WIND DIRECTION AND MET BIN NUMBER
 BIN     1      2      3      4      5      6      7      8      9     10     11
12     13     14     15     16
    1 0.2657 0.0280 0.0070 0.0140 0.0420 0.1259 0.1049 0.0839 0.0699 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.2587
    2 0.0789 0.0526 0.0175 0.0000 0.0351 0.1053 0.1491 0.1053 0.2719 0.1316 0.0000
0.0000 0.0000 0.0000 0.0088 0.0439
    3 0.0979 0.0553 0.0723 0.0255 0.0426 0.0255 0.0213 0.0255 0.0426 0.0383 0.0426
0.0681 0.0766 0.1106 0.0979 0.1574
    4 0.1790 0.0953 0.0538 0.0558 0.0408 0.0442 0.0565 0.0626 0.0980 0.1007 0.0585
0.0197 0.0157 0.0116 0.0197 0.0878
    5 0.1510 0.0532 0.0228 0.0339 0.0673 0.0755 0.1123 0.0837 0.1919 0.1293 0.0275
0.0053 0.0006 0.0018 0.0018 0.0421
    6 0.0966 0.0546 0.0143 0.0179 0.0403 0.0814 0.2191 0.1154 0.1494 0.1905 0.0125
0.0000 0.0000 0.0000 0.0000 0.0081
    7 0.0000 0.0351 0.0000 0.0000 0.0175 0.0351 0.3333 0.0351 0.4737 0.0702 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    9 0.0977 0.0798 0.0605 0.0605 0.0358 0.0179 0.0193 0.0316 0.0798 0.0867 0.0757
0.0468 0.0729 0.0578 0.0729 0.1045
   10 0.1630 0.0872 0.0602 0.0427 0.0201 0.0087 0.0087 0.0166 0.0331 0.1866 0.1709
```

0.0541 0.0270 0.0218 0.0122 0.0872
11 0.1941 0.0513 0.0147 0.0220 0.0147 0.0110 0.0073 0.0037 0.0476 0.3407 0.2527 0.0037 0.0000 0.0000 0.0000 0.0366
12 0.2632 0.0263 0.0263 0.0000 0.0789 0.2105 0.0000 0.0263 0.1053 0.1053 0.0789 0.0000 0.0000 0.0000 0.0000 0.0789
13 0.0160 0.0214 0.0321 0.0321 0.0214 0.0428 0.0428 0.0909 0.2406 0.2299 0.0856 0.0642 0.0107 0.0267 0.0267 0.0160
14 0.0065 0.0130 0.0065 0.0065 0.0000 0.0000 0.0033 0.0065 0.0521 0.4788 0.2997 0.0782 0.0195 0.0098 0.0065 0.0130
15 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.3548 0.6452 0.0000 0.0000 0.0000 0.0000 0.0000
16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0714 0.1429 0.0714 0.3571 0.2857 0.0714 0.0000 0.0000 0.0000 0.0000
17 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
18 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
19 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
20 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
21 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
22 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
23 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
24 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
25 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
26 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
27 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
28 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
29 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
30 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
31 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
32 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
33 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
34 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
35 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
36 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
37 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
38 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
39 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
40 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759 0.0328 0.0362 0.0448 0.0328 0.1129
41 0.1377 0.0653 0.0361 0.0345 0.0363 0.0429 0.0715 0.0564 0.1174 0.1647 0.0822 0.0258 0.0201 0.0197 0.0192 0.0703

```
Processing a Site Data File with Header: MACCS2 Site Data File for Indian Point
Energy Center
 SITE FILE

 THIS PROGRAM CURRENTLY ALLOWS THE GENERATION OF UP TO  394 RESULTS

YOU HAVE REQUESTED  10 RESULTS FROM "EARLY" COMPOSED OF:

   4 RESULTS OF TYPE 1
   0 RESULTS OF TYPE 2
   0 RESULTS OF TYPE 3
   3 RESULTS OF TYPE 4
   1 RESULTS OF TYPE 5
   0 RESULTS OF TYPE 6
   0 RESULTS OF TYPE 7
   2 RESULTS OF TYPE 8
   0 RESULTS OF TYPE A
   0 RESULTS OF TYPE B

YOU HAVE REQUESTED   30 RESULTS FROM "CHRONC" COMPOSED OF:

  17 RESULTS OF TYPE 9
  13 RESULTS OF TYPE 10
   0 RESULTS OF TYPE 11
   0 RESULTS OF TYPE 12
   0 RESULTS OF TYPE 13


     TRIAL        DAY       HOUR        BIN     PRBMET
         1        152         22         29   5.42E-04
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
         2        153          7         35   8.85E-04
For Julian Day 153, selecting COMIDA2 results # 4 of 9
         3        153         14         37   3.42E-04
For Julian Day 153, selecting COMIDA2 results # 4 of 9
         4        153         16         36   2.28E-04
For Julian Day 153, selecting COMIDA2 results # 4 of 9
         5        160          6         15   1.77E-03
For Julian Day 160, selecting COMIDA2 results # 4 of 9
         6        161         11          1   4.08E-03
For Julian Day 161, selecting COMIDA2 results # 4 of 9
         7        161         24         21   4.59E-03
For Julian Day 161, selecting COMIDA2 results # 4 of 9
         8        162          6         18   1.60E-03
```

```
For Julian Day 162, selecting COMIDA2 results # 4 of 9
          9        163         23          9   2.07E-02
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         10        163         24          3   6.71E-03
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         11        165         11          4   4.19E-02
For Julian Day 165, selecting COMIDA2 results # 4 of 9
         12        167         18         39   8.28E-04
For Julian Day 167, selecting COMIDA2 results # 5 of 9
         13        167         22         38   2.85E-04
For Julian Day 167, selecting COMIDA2 results # 5 of 9
         14        167         23         38   2.85E-04
For Julian Day 167, selecting COMIDA2 results # 5 of 9
         15        168          1         37   3.42E-04
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         16        168          7         23   1.20E-03
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         17        169          4         12   1.08E-03
For Julian Day 169, selecting COMIDA2 results # 5 of 9
         18        173         22         40   1.63E-03
For Julian Day 173, selecting COMIDA2 results # 5 of 9
         19        174          3         39   8.28E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         20        174         10         36   2.28E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         21        174         13         31   1.14E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         22        174         18         27   2.28E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         23        174         19         25   1.43E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         24        186         19         35   8.85E-04
For Julian Day 186, selecting COMIDA2 results # 5 of 9
         25        188         24         20   1.77E-03
For Julian Day 188, selecting COMIDA2 results # 5 of 9
         26        189          4         24   1.43E-04
For Julian Day 189, selecting COMIDA2 results # 5 of 9
         27        189          5         24   1.43E-04
For Julian Day 189, selecting COMIDA2 results # 5 of 9
         28        190          3         10   3.27E-02
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         29        191         20         34   2.85E-04
For Julian Day 191, selecting COMIDA2 results # 5 of 9
         30        191         22         34   2.85E-04
For Julian Day 191, selecting COMIDA2 results # 5 of 9
         31        191         24         34   2.85E-04
For Julian Day 191, selecting COMIDA2 results # 5 of 9
         32        192          1         33   2.00E-04
For Julian Day 192, selecting COMIDA2 results # 6 of 9
         33        192          3         33   2.00E-04
For Julian Day 192, selecting COMIDA2 results # 6 of 9
         34        192          4         33   2.00E-04
For Julian Day 192, selecting COMIDA2 results # 6 of 9
         35        192          6         31   1.14E-04
For Julian Day 192, selecting COMIDA2 results # 6 of 9
         36        197         16         28   4.00E-04
For Julian Day 197, selecting COMIDA2 results # 6 of 9
         37        197         20         28   4.00E-04
For Julian Day 197, selecting COMIDA2 results # 6 of 9
         38        197         21         27   2.28E-04
For Julian Day 197, selecting COMIDA2 results # 6 of 9
         39        197         23         27   2.28E-04
For Julian Day 197, selecting COMIDA2 results # 6 of 9
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         40        198          1         26   1.14E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
         41        198          2         26   1.14E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
         42        198          3         25   1.43E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
         43        198          4         25   1.43E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
         44        198          5         24   1.43E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
         45        205         14          2   3.25E-03
For Julian Day 205, selecting COMIDA2 results # 6 of 9
         46        205         15          6   3.19E-02
For Julian Day 205, selecting COMIDA2 results # 6 of 9
         47        207         24          5   4.88E-02
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         48        213          3         14   8.76E-03
For Julian Day 213, selecting COMIDA2 results # 6 of 9
         49        215         16         39   8.28E-04
For Julian Day 215, selecting COMIDA2 results # 6 of 9
         50        216         10         40   1.63E-03
For Julian Day 216, selecting COMIDA2 results # 6 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
         51        216         17         38   2.85E-04
For Julian Day 216, selecting COMIDA2 results # 6 of 9
         52        216         19         36   2.28E-04
For Julian Day 216, selecting COMIDA2 results # 6 of 9
         53        221         24         11   7.79E-03
For Julian Day 221, selecting COMIDA2 results # 6 of 9
         54        224          7          4   4.19E-02
For Julian Day 224, selecting COMIDA2 results # 7 of 9
         55        225          4         40   1.63E-03
For Julian Day 225, selecting COMIDA2 results # 7 of 9
         56        225         13         39   8.28E-04
For Julian Day 225, selecting COMIDA2 results # 7 of 9
         57        225         15         37   3.42E-04
For Julian Day 225, selecting COMIDA2 results # 7 of 9
         58        231         23         22   8.70E-03
For Julian Day 231, selecting COMIDA2 results # 7 of 9
         59        234          4         13   5.34E-03
For Julian Day 234, selecting COMIDA2 results # 7 of 9
         60        235         14         19   1.86E-03
For Julian Day 235, selecting COMIDA2 results # 7 of 9
         61        239         11         38   2.85E-04
For Julian Day 239, selecting COMIDA2 results # 7 of 9
         62        239         13         36   2.28E-04
For Julian Day 239, selecting COMIDA2 results # 7 of 9
         63        243         18         34   2.85E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
         64        243         19         33   2.00E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
         65        243         21         32   1.14E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
         66        243         22         32   1.14E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
         67        243         23         30   1.14E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
         68        244         16          1   4.08E-03
For Julian Day 244, selecting COMIDA2 results # 7 of 9
         69        245          1         11   7.79E-03
For Julian Day 245, selecting COMIDA2 results # 7 of 9
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        70        253         18         35   8.85E-04
For Julian Day 253, selecting COMIDA2 results # 7 of 9
        71        255          5         10   3.27E-02
For Julian Day 255, selecting COMIDA2 results # 7 of 9
        72        257          1         29   5.42E-04
For Julian Day 257, selecting COMIDA2 results # 8 of 9
        73        257          4         26   1.14E-04
For Julian Day 257, selecting COMIDA2 results # 8 of 9
        74        259          3         16   4.00E-04
For Julian Day 259, selecting COMIDA2 results # 8 of 9
        75        262          6         15   1.77E-03
For Julian Day 262, selecting COMIDA2 results # 8 of 9
        76        263          1         28   4.00E-04
For Julian Day 263, selecting COMIDA2 results # 8 of 9
        77        263          6         28   4.00E-04
For Julian Day 263, selecting COMIDA2 results # 8 of 9
        78        263          9         27   2.28E-04
For Julian Day 263, selecting COMIDA2 results # 8 of 9
        79        263         10         26   1.14E-04
For Julian Day 263, selecting COMIDA2 results # 8 of 9
        80        263         12         23   1.20E-03
For Julian Day 263, selecting COMIDA2 results # 8 of 9
        81        264          4         17   6.96E-03
For Julian Day 264, selecting COMIDA2 results # 8 of 9
        82        267          9          3   6.71E-03
For Julian Day 267, selecting COMIDA2 results # 8 of 9
        83        276         14          5   4.88E-02
For Julian Day 276, selecting COMIDA2 results # 8 of 9
        84        282          2         14   8.76E-03
For Julian Day 282, selecting COMIDA2 results # 8 of 9
        85        284         23         13   5.34E-03
For Julian Day 284, selecting COMIDA2 results # 8 of 9
        86        285          6          9   2.07E-02
For Julian Day 285, selecting COMIDA2 results # 8 of 9
        87        291         12          1   4.08E-03
For Julian Day 291, selecting COMIDA2 results # 9 of 9
        88        306         16         12   1.08E-03
For Julian Day 306, selecting COMIDA2 results # 9 of 9
        89        308         13         22   8.70E-03
For Julian Day 308, selecting COMIDA2 results # 9 of 9
        90        315          9          6   3.19E-02
For Julian Day 315, selecting COMIDA2 results # 9 of 9
        91        316         13          2   3.25E-03
For Julian Day 316, selecting COMIDA2 results # 9 of 9
        92        320          8          9   2.07E-02
For Julian Day 320, selecting COMIDA2 results # 9 of 9
        93        327          2         15   1.77E-03
For Julian Day 327, selecting COMIDA2 results # 9 of 9
        94        327          8         14   8.76E-03
For Julian Day 327, selecting COMIDA2 results # 9 of 9
        95        329         20         23   1.20E-03
For Julian Day 329, selecting COMIDA2 results # 9 of 9
        96        334         20         11   7.79E-03
For Julian Day 334, selecting COMIDA2 results # 1 of 9
        97        334         22         12   1.08E-03
For Julian Day 334, selecting COMIDA2 results # 1 of 9
        98        336         13          4   4.19E-02
For Julian Day 336, selecting COMIDA2 results # 1 of 9
        99        351         16         20   1.77E-03
For Julian Day 351, selecting COMIDA2 results # 1 of 9
       100        352          9          7   1.63E-03
For Julian Day 352, selecting COMIDA2 results # 1 of 9
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     TRIAL        DAY       HOUR        BIN     PRBMET
       101        358          7         10   3.27E-02
For Julian Day 358, selecting COMIDA2 results # 1 of 9
       102          8         18         19   1.86E-03
For Julian Day   8, selecting COMIDA2 results # 1 of 9
       103         14          2         13   5.34E-03
For Julian Day  14, selecting COMIDA2 results # 1 of 9
       104         15          1         21   4.59E-03
For Julian Day  15, selecting COMIDA2 results # 1 of 9
       105         15          6         17   6.96E-03
For Julian Day  15, selecting COMIDA2 results # 1 of 9
       106         18         16         22   8.70E-03
For Julian Day  18, selecting COMIDA2 results # 1 of 9
       107         19          6         18   1.60E-03
For Julian Day  19, selecting COMIDA2 results # 1 of 9
       108         20         17          6   3.19E-02
For Julian Day  20, selecting COMIDA2 results # 1 of 9
       109         27         15          5   4.88E-02
For Julian Day  27, selecting COMIDA2 results # 1 of 9
       110         36         10         20   1.77E-03
For Julian Day  36, selecting COMIDA2 results # 2 of 9
       111         40          5          3   6.71E-03
For Julian Day  40, selecting COMIDA2 results # 2 of 9
       112         47         13         21   4.59E-03
For Julian Day  47, selecting COMIDA2 results # 2 of 9
       113         47         20         17   6.96E-03
For Julian Day  47, selecting COMIDA2 results # 2 of 9
       114         50         21         12   1.08E-03
For Julian Day  50, selecting COMIDA2 results # 2 of 9
       115         62          4          9   2.07E-02
For Julian Day  62, selecting COMIDA2 results # 2 of 9
       116         65         10          7   1.63E-03
For Julian Day  65, selecting COMIDA2 results # 2 of 9
       117         68         14         19   1.86E-03
For Julian Day  68, selecting COMIDA2 results # 2 of 9
       118         71         13          5   4.88E-02
For Julian Day  71, selecting COMIDA2 results # 2 of 9
       119         71         24         18   1.60E-03
For Julian Day  71, selecting COMIDA2 results # 2 of 9
       120         80         13         22   8.70E-03
For Julian Day  80, selecting COMIDA2 results # 2 of 9
       121         81         22         16   4.00E-04
For Julian Day  81, selecting COMIDA2 results # 2 of 9
       122         82          6          7   1.63E-03
For Julian Day  82, selecting COMIDA2 results # 2 of 9
       123         87         12          2   3.25E-03
For Julian Day  87, selecting COMIDA2 results # 2 of 9
       124         88         18         18   1.60E-03
For Julian Day  88, selecting COMIDA2 results # 2 of 9
       125         89          6         29   5.42E-04
For Julian Day  89, selecting COMIDA2 results # 2 of 9
       126         94         16          6   3.19E-02
For Julian Day  94, selecting COMIDA2 results # 3 of 9
       127         95         14          1   4.08E-03
For Julian Day  95, selecting COMIDA2 results # 3 of 9
       128         96         13         19   1.86E-03
For Julian Day  96, selecting COMIDA2 results # 3 of 9
       129         99         19         31   1.14E-04
For Julian Day  99, selecting COMIDA2 results # 3 of 9
       130         99         21         35   8.85E-04
For Julian Day  99, selecting COMIDA2 results # 3 of 9
       131        103          8         16   4.00E-04
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For Julian Day 103, selecting COMIDA2 results # 3 of 9
        132        107          5         10   3.27E-02
For Julian Day 107, selecting COMIDA2 results # 3 of 9
        133        111         18         21   4.59E-03
For Julian Day 111, selecting COMIDA2 results # 3 of 9
        134        114          8          4   4.19E-02
For Julian Day 114, selecting COMIDA2 results # 3 of 9
        135        114         17          7   1.63E-03
For Julian Day 114, selecting COMIDA2 results # 3 of 9
        136        116          3         15   1.77E-03
For Julian Day 116, selecting COMIDA2 results # 3 of 9
        137        120          3         14   8.76E-03
For Julian Day 120, selecting COMIDA2 results # 3 of 9
        138        121          7         13   5.34E-03
For Julian Day 121, selecting COMIDA2 results # 3 of 9
        139        124         10         11   7.79E-03
For Julian Day 124, selecting COMIDA2 results # 3 of 9
        140        128         14          2   3.25E-03
For Julian Day 128, selecting COMIDA2 results # 3 of 9
        141        130          5         16   4.00E-04
For Julian Day 130, selecting COMIDA2 results # 3 of 9
        142        140          5          3   6.71E-03
For Julian Day 140, selecting COMIDA2 results # 4 of 9
        143        142          5         25   1.43E-04
For Julian Day 142, selecting COMIDA2 results # 4 of 9
        144        142          6         24   1.43E-04
For Julian Day 142, selecting COMIDA2 results # 4 of 9
        145        142         10         23   1.20E-03
For Julian Day 142, selecting COMIDA2 results # 4 of 9
        146        143         10         17   6.96E-03
For Julian Day 143, selecting COMIDA2 results # 4 of 9
        147        147          2         29   5.42E-04
For Julian Day 147, selecting COMIDA2 results # 4 of 9
        148        147          5         20   1.77E-03
For Julian Day 147, selecting COMIDA2 results # 4 of 9
        149        147         11         40   1.63E-03
For Julian Day 147, selecting COMIDA2 results # 4 of 9
        150        147         18         37   3.42E-04
For Julian Day 147, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.89 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 153, selecting COMIDA2 results # 4 of 9
For Julian Day 153, selecting COMIDA2 results # 4 of 9
For Julian Day 153, selecting COMIDA2 results # 4 of 9
For Julian Day 160, selecting COMIDA2 results # 4 of 9
For Julian Day 161, selecting COMIDA2 results # 4 of 9
For Julian Day 161, selecting COMIDA2 results # 4 of 9
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For Julian Day 162, selecting COMIDA2 results # 4 of 9
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For Julian Day 255, selecting COMIDA2 results # 7 of 9
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For Julian Day 103, selecting COMIDA2 results # 3 of 9
For Julian Day 107, selecting COMIDA2 results # 3 of 9
For Julian Day 111, selecting COMIDA2 results # 3 of 9
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For Julian Day 114, selecting COMIDA2 results # 3 of 9
For Julian Day 114, selecting COMIDA2 results # 3 of 9
For Julian Day 116, selecting COMIDA2 results # 3 of 9
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For Julian Day 147, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 153, selecting COMIDA2 results # 4 of 9
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For Julian Day 153, selecting COMIDA2 results # 4 of 9
For Julian Day 160, selecting COMIDA2 results # 4 of 9
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 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

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THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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 WARNING!! WARNING!! WARNING!! WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 24.00 HOURS

 WARNING!! WARNING!! WARNING!! WARNING!!

For Julian Day 152, selecting COMIDA2 results # 4 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH
THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:


FRACTION OF THE PEOPLE

               ------
    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
                1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC"
DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN
LATER SECTIONS.

13-NOV-09  07:21:17    PAGE   1          PROB                           QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.18E+00  1.78E+00  3.78E+00
4.99E+00  8.83E+00  1.57E+01  2.66E+01  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  8.71E-01  7.93E-01  1.65E+00
2.02E+00  2.16E+00  2.22E+00  2.91E+00  7.95E-06    1

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  4.87E+01  3.95E+01  8.62E+01
1.16E+02  2.22E+02  2.81E+02  5.95E+02  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.21E-06  2.03E-06  4.31E-06
5.08E-06  5.51E-06  5.70E-06  7.39E-06  7.95E-06    1
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS
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  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  1 OF  8:
    NCF

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  07:21:17    PAGE   2          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.53E-01  1.14E-01  2.77E-01
3.45E-01  5.51E-01  6.81E-01  1.21E+00  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  6.62E-02  6.09E-02  1.08E-01
1.17E-01  1.42E-01  1.55E-01  2.06E-01  4.28E-04    6
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.34E+00  2.95E+00  5.85E+00
7.47E+00  1.33E+01  1.83E+01  2.68E+01  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.70E-07  1.42E-07  3.04E-07
3.29E-07  3.93E-07  4.25E-07  5.29E-07  4.28E-04    6
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  07:21:17    PAGE   3          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  2.03E+00  1.60E+00  3.57E+00
4.82E+00  8.67E+00  1.52E+01  2.54E+01  4.11E-03   54
 CAN FAT/TOTAL              0-16.1 km  1.0000  8.05E-01  7.43E-01  1.40E+00
1.72E+00  2.09E+00  2.14E+00  2.74E+00  7.95E-06    1

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  4.54E+01  3.58E+01  7.98E+01
1.04E+02  1.86E+02  2.67E+02  5.68E+02  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.04E-06  1.85E-06  3.82E-06
4.89E-06  5.30E-06  5.45E-06  6.96E-06  7.95E-06    1

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  4.54E+01  3.58E+01  7.98E+01
1.04E+02  1.86E+02  2.67E+02  5.68E+02  4.11E-03   54
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  4.48E+01  3.53E+01  7.98E+01
1.04E+02  1.86E+02  2.67E+02  5.68E+02  4.11E-03   54
 TOTAL INGESTION PATHWAYS DOSE          1.0000  5.57E-01  2.04E-01  1.52E+00
2.22E+00  3.28E+00  3.52E+00  4.31E+00  6.56E-04   54
 LONG-TERM GROUNDSHINE DOSE             1.0000  4.35E+01  3.39E+01  7.78E+01
9.97E+01  1.78E+02  2.60E+02  5.51E+02  4.11E-03   54
 LONG-TERM RESUSPENSION DOSE            1.0000  1.35E+00  1.05E+00  2.37E+00
3.13E+00  5.97E+00  8.68E+00  1.72E+01  4.11E-03   54
 WATER INGESTION DOSE                   1.0000  2.49E-02  2.18E-02  4.51E-02
5.19E-02  6.02E-02  6.42E-02  8.59E-02  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE    0.3190  3.87E-03  0.00E+00  1.15E-02
1.30E-02  1.72E-02  1.94E-02  2.65E-02  6.24E-04   80
 FARM-DEPENDENT DECONTAMINATION DOSE    0.3190  4.03E-07  0.00E+00  1.17E-06
1.34E-06  1.82E-06  2.05E-06  2.75E-06  6.24E-04   80
 INGESTION OF GRAINS                    1.0000  1.64E-02  5.33E-03  4.95E-02
6.85E-02  1.06E-01  1.16E-01  1.50E-01  6.56E-04   54
 INGESTION OF LEAF VEG                  1.0000  3.13E-02  6.73E-03  8.24E-02
1.42E-01  3.05E-01  3.17E-01  4.39E-01  1.79E-05   76
 INGESTION OF ROOT CROPS                1.0000  2.17E-02  7.10E-03  6.47E-02
8.94E-02  1.25E-01  1.40E-01  1.96E-01  6.56E-04   54
 INGESTION OF FRUITS                    1.0000  3.20E-02  1.07E-02  9.71E-02
1.28E-01  2.11E-01  2.28E-01  2.88E-01  6.56E-04   54
 INGESTION OF LEGUMES                   1.0000  1.85E-02  5.77E-03  5.52E-02
7.66E-02  1.11E-01  1.23E-01  1.67E-01  6.56E-04   54
 INGESTION OF BEEF                      1.0000  1.65E-01  5.99E-02  4.73E-01
6.49E-01  1.02E+00  1.07E+00  1.24E+00  6.56E-04   54
 INGESTION OF MILK                      1.0000  1.91E-01  5.65E-02  5.88E-01
7.83E-01  1.10E+00  1.20E+00  1.55E+00  6.56E-04   54
 INGESTION OF POULTRY                   1.0000  4.60E-02  1.26E-02  1.26E-01
2.16E-01  3.89E-01  4.53E-01  5.65E-01  1.79E-05   76
 INGESTION OF OTHER MEAT CROPS          1.0000  1.04E-02  5.22E-03  2.43E-02
3.81E-02  7.70E-02  8.87E-02  1.07E-01  1.79E-05   76

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   0.7378  1.09E+05  2.51E+03  3.21E+05
3.39E+05  3.86E+05  4.08E+05  4.98E+05  4.31E-04    6
 POP.-DEPENDENT COSTS                   0.3190  1.04E+05  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  4.12E+05  2.07E-01    1
 FARM-DEPENDENT COSTS                   0.7378  5.28E+03  1.09E+03  1.61E+04
2.24E+04  3.58E+04  4.20E+04  8.56E+04  4.31E-04    6
 POP.-DEPENDENT DECONTAMINATION COST    0.3190  2.23E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  8.81E+04  2.07E-01    1
 FARM-DEPENDENT DECONTAMINATION COST    0.3190  1.79E+01  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  7.04E+01  2.07E-01    1
 POP.-DEPENDENT INTERDICTION COST       0.3190  8.19E+04  0.00E+00 NOT-FOUND
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NOT-FOUND NOT-FOUND NOT-FOUND  3.24E+05  2.07E-01    1
 FARM-DEPENDENT INTERDICTION COST       0.6890  4.23E+03  8.01E+02  1.29E+04
1.74E+04  2.46E+04  2.75E+04  6.92E+04  4.37E-04    1
 POP.-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 FARM-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 EMERGENCY PHASE COST                   0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  07:21:17    PAGE   4          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     0.7247  1.80E+01  8.97E-01  5.78E+01
9.21E+01  2.10E+02  2.46E+02  3.37E+02  8.78E-04   11
 CROP DISPOSAL COST                     0.6758  1.01E+03  2.08E+02  3.25E+03
3.58E+03  4.49E+03  4.95E+03  1.62E+04  4.58E-04    1
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1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  07:21:17    PAGE   6          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.9933  1.79E+02  1.02E+02  5.05E+02
5.31E+02  5.98E+02  6.30E+02  1.09E+03  5.55E-05    7
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.39E+04  1.50E+04  5.09E+04
7.35E+04  1.28E+05 NOT-FOUND  1.33E+05  9.36E-03   83
 CAN FAT/TOTAL               0-16.1 km  1.0000  6.03E+03  5.76E+03  1.00E+04
1.06E+04  1.22E+04  1.29E+04  2.02E+04  2.85E-05   48
 ERL FAT/TOTAL               0-16.1 km  0.9933  1.79E+02  1.02E+02  5.05E+02
5.31E+02  5.98E+02  6.30E+02  1.09E+03  5.55E-05    7

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.9933  1.66E-01  1.43E-01  2.14E-01
2.25E-01  2.52E-01  2.65E-01  2.69E-01  4.08E-03    6
 ERL FAT/TOTAL              0.3-1.6 km  0.8652  3.66E-02  2.89E-02  7.21E-02
7.39E-02  7.82E-02  8.02E-02  8.77E-02  4.00E-04   77
 ERL FAT/TOTAL              1.6-3.2 km  0.6070  1.92E-03  8.01E-04  6.02E-03
8.05E-03  1.47E-02  1.93E-02  2.88E-02  4.59E-03    7

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  2.97E+05  1.98E+05  7.26E+05
1.01E+06  1.17E+06  1.25E+06  1.62E+06  2.85E-04    6

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.9933  1.06E-02  5.81E-03  3.03E-02
3.23E-02  3.74E-02  3.98E-02  6.23E-02  5.55E-05    7
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.54E-02  1.31E-02  2.63E-02
3.05E-02  3.46E-02  3.65E-02  5.18E-02  2.85E-05   48
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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                                PROB                                QUANTILES
                        PEAK      PEAK  PEAK
                                NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.32E+04  6.35E+03  3.27E+04
3.92E+04  5.28E+04  5.59E+04  6.89E+04  3.71E-04   96
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.03E+02  3.60E+02  5.44E+02
5.91E+02  7.08E+02  7.40E+02  9.18E+02  1.71E-04    6

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  2.96E+05  1.43E+05  7.29E+05
8.83E+05  1.12E+06  1.21E+06  1.57E+06  3.71E-04   96

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  0.9656  3.62E-04  3.32E-04  6.10E-04
7.24E-04  9.62E-04  1.04E-03  1.41E-03  1.71E-04   87

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  2.96E+05  1.43E+05  7.29E+05
8.83E+05  1.12E+06  1.21E+06  1.57E+06  3.71E-04   96
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  2.34E+05  9.74E+04  5.91E+05
6.92E+05  7.85E+05  8.26E+05  9.99E+05  3.71E-04   96
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.13E+03  3.59E+03  7.09E+03
7.63E+03  9.05E+03  9.74E+03  1.14E+04  8.46E-05    1
 LONG-TERM GROUNDSHINE DOSE             1.0000  2.24E+05  9.61E+04  5.70E+05
6.60E+05  7.71E+05  8.10E+05  9.78E+05  3.71E-04   96
 LONG-TERM RESUSPENSION DOSE            1.0000  9.41E+03  4.24E+03  2.26E+04
2.49E+04  3.02E+04  3.06E+04  3.39E+04  5.03E-05   99
 WATER INGESTION DOSE                   1.0000  3.95E+03  3.49E+03  6.53E+03
7.33E+03  8.72E+03  9.39E+03  1.13E+04  5.71E-05  137
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  5.85E+04  2.92E+04  1.57E+05
2.25E+05  4.90E+05  5.12E+05  5.61E+05  3.71E-04   96
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.88E+01  1.58E+01  1.01E+02
1.21E+02  1.85E+02  2.01E+02  2.18E+02  2.85E-05   83
 INGESTION OF GRAINS                    1.0000  3.30E+00  1.58E+00  7.95E+00
9.38E+00  1.42E+01  1.70E+01  2.99E+01  2.55E-05   37
 INGESTION OF LEAF VEG                  1.0000  2.65E+01  1.26E+01  6.56E+01
7.52E+01  9.55E+01  1.05E+02  1.27E+02  1.08E-03  127
 INGESTION OF ROOT CROPS                1.0000  1.60E+01  7.57E+00  3.79E+01
4.56E+01  5.86E+01  6.39E+01  7.72E+01  1.08E-03  127
 INGESTION OF FRUITS                    1.0000  1.42E+01  6.56E+00  3.38E+01
3.85E+01  5.16E+01  5.70E+01  7.67E+01  1.08E-03   87
 INGESTION OF LEGUMES                   1.0000  3.14E+01  1.47E+01  7.73E+01
8.96E+01  1.15E+02  1.26E+02  1.54E+02  1.08E-03  127
 INGESTION OF BEEF                      1.0000  4.17E+01  1.05E+01  1.33E+02
2.10E+02  3.12E+02  3.29E+02  4.64E+02  5.79E-05  124
 INGESTION OF MILK                      1.0000  3.82E+01  1.25E+01  1.23E+02
1.75E+02  2.54E+02  2.87E+02  3.63E+02  5.14E-04  111
 INGESTION OF POULTRY                   1.0000  9.53E+00  2.79E+00  3.21E+01
4.45E+01  6.87E+01  7.94E+01  9.87E+01  1.74E-03   90
 INGESTION OF OTHER MEAT CROPS          1.0000  4.51E+00  1.19E+00  1.56E+01
2.38E+01  3.61E+01  4.11E+01  5.24E+01  1.74E-03   90

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  1.93E+11  1.05E+11  4.64E+11
5.88E+11  1.01E+12 NOT-FOUND  1.27E+12  9.36E-03   83
 POP.-DEPENDENT COSTS                   1.0000  1.93E+11  1.05E+11  4.64E+11
5.88E+11  1.01E+12 NOT-FOUND  1.27E+12  9.36E-03   83
 FARM-DEPENDENT COSTS                   1.0000  4.25E+08  2.43E+08  1.03E+09
1.07E+09  1.17E+09  1.21E+09  1.43E+09  2.57E-04  140
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  4.16E+10  1.72E+10  1.05E+11
1.15E+11  1.42E+11  1.55E+11  1.95E+11  8.85E-04  123
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 FARM-DEPENDENT DECONTAMINATION COST    1.0000  3.84E+07  1.87E+07  8.95E+07
1.02E+08  1.14E+08  1.19E+08  1.50E+08  1.71E-04  123
 POP.-DEPENDENT INTERDICTION COST       1.0000  1.38E+11  6.64E+10  3.54E+11
4.46E+11  8.26E+11 NOT-FOUND  1.09E+12  9.36E-03   83
 FARM-DEPENDENT INTERDICTION COST       1.0000  3.32E+08  1.59E+08  7.75E+08
8.49E+08  1.02E+09  1.06E+09  1.24E+09  2.57E-04  140
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.31E+10  7.58E+09  3.51E+10
4.95E+10  5.59E+10  5.86E+10  6.61E+10  8.99E-04   15
 FARM-DEPENDENT CONDEMNATION COST       1.0000  1.24E+07  7.64E+06  2.98E+07
5.13E+07  5.78E+07  6.08E+07  1.36E+08  2.85E-04   97
 EMERGENCY PHASE COST                   1.0000  1.84E+08  8.12E+07  3.31E+08
4.56E+08  2.17E+09 NOT-FOUND  2.49E+09  9.36E-03   83
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  07:21:17    PAGE   8          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.08E+06  3.09E+05  2.90E+06
3.49E+06  5.03E+06  5.16E+06  6.26E+06  2.85E-05  140
 CROP DISPOSAL COST                     1.0000  4.12E+07  4.01E+07  5.91E+07
6.45E+07  7.56E+07  7.99E+07  9.89E+07  3.42E-04  140
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 CAN FAT/TOTAL                0-16.1 km  1.0000  2.99E-03  2.83E-03  5.02E-03
5.67E-03  7.08E-03  7.20E-03  8.70E-03  3.35E-06   39
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  07:21:17    PAGE  10          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.7620  5.39E+00  1.24E+00  2.00E+01
2.08E+01  2.27E+01  2.35E+01  2.83E+01  1.65E-04   77
 CAN FAT/TOTAL                0-80.5 km  1.0000  4.67E+03  3.20E+03  9.81E+03
1.30E+04  3.40E+04  4.43E+04  4.77E+04  4.11E-03   54
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.03E+03  1.02E+03  1.71E+03
2.04E+03  2.36E+03  2.51E+03  3.24E+03  2.85E-05   48
 ERL FAT/TOTAL                0-16.1 km  0.7620  5.39E+00  1.24E+00  2.00E+01
2.08E+01  2.27E+01  2.35E+01  2.83E+01  1.65E-04   77

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.7620  2.59E-02  6.58E-03  7.24E-02
7.54E-02  8.28E-02  8.62E-02  1.04E-01  4.00E-04   77
 ERL FAT/TOTAL               0.3-1.6 km  0.0448  3.92E-06  0.00E+00  0.00E+00
0.00E+00  9.74E-05  1.10E-04  2.62E-04  1.43E-04   27
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  6.48E+04  3.67E+04  1.40E+05
2.06E+05  3.64E+05  4.66E+05  7.73E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.7620  3.23E-04  7.71E-05  1.03E-03
1.09E-03  1.23E-03  1.30E-03  1.70E-03  1.65E-04   77
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.63E-03  2.45E-03  4.48E-03
5.15E-03  5.92E-03  6.29E-03  8.30E-03  2.85E-05   48
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE
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13-NOV-09  07:21:17    PAGE  11          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.46E+03  2.77E+03  1.29E+04
1.62E+04  2.47E+04  2.87E+04  3.52E+04  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.49E+02  2.39E+02  3.76E+02
4.25E+02  5.13E+02  5.26E+02  6.79E+02  4.18E-06   61

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.21E+05  5.90E+04  3.26E+05
3.89E+05  5.74E+05  6.70E+05  7.92E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.53E-04  3.16E-04  5.57E-04
6.35E-04  7.18E-04  7.29E-04  8.56E-04  4.18E-06   61

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.21E+05  5.90E+04  3.26E+05
3.89E+05  5.74E+05  6.70E+05  7.92E+05  4.11E-03   54
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.10E+05  5.07E+04  2.92E+05
3.42E+05  4.80E+05  5.15E+05  6.11E+05  2.85E-04    6
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.16E+02  3.53E+02  7.43E+02
8.31E+02  1.03E+03  1.07E+03  1.25E+03  2.76E-04  110
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.02E+05  4.83E+04  2.63E+05
3.23E+05  4.41E+05  5.01E+05  5.65E+05  2.85E-04    6
 LONG-TERM RESUSPENSION DOSE            1.0000  8.14E+03  3.53E+03  2.21E+04
2.65E+04  3.32E+04  3.54E+04  4.58E+04  2.85E-04    6
 WATER INGESTION DOSE                   1.0000  2.59E+02  2.29E+02  4.68E+02
5.36E+02  6.67E+02  7.65E+02  9.89E+02  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  1.07E+04  6.37E+03  2.15E+04
3.23E+04  7.96E+04  9.51E+04  1.97E+05  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  7.38E+00  3.18E+00  2.07E+01
2.60E+01  5.03E+01  5.14E+01  5.49E+01  6.56E-04   54
 INGESTION OF GRAINS                    1.0000  4.39E+00  1.01E+00  1.40E+01
2.03E+01  2.63E+01  2.94E+01  3.83E+01  3.71E-04   10
 INGESTION OF LEAF VEG                  1.0000  9.99E+00  4.24E+00  2.81E+01
3.59E+01  5.83E+01  7.12E+01  1.45E+02  2.55E-05   76
 INGESTION OF ROOT CROPS                1.0000  6.68E+00  2.66E+00  2.03E+01
2.51E+01  3.53E+01  3.94E+01  5.11E+01  3.71E-04   10
 INGESTION OF FRUITS                    1.0000  1.00E+01  4.17E+00  2.99E+01
3.56E+01  5.27E+01  6.12E+01  7.50E+01  3.71E-04   10
 INGESTION OF LEGUMES                   1.0000  8.23E+00  3.86E+00  2.13E+01
2.47E+01  3.24E+01  3.48E+01  4.58E+01  3.71E-04   10
 INGESTION OF BEEF                      1.0000  6.32E+01  2.38E+01  1.51E+02
2.00E+02  3.35E+02  3.67E+02  5.41E+02  2.57E-04  123
 INGESTION OF MILK                      1.0000  3.49E+01  1.28E+01  9.70E+01
1.35E+02  2.27E+02  2.54E+02  3.66E+02  2.57E-04  123
 INGESTION OF POULTRY                   1.0000  1.46E+01  6.98E+00  3.65E+01
4.47E+01  6.09E+01  6.81E+01  1.29E+02  2.55E-05   76
 INGESTION OF OTHER MEAT CROPS          1.0000  4.90E+00  2.19E+00  1.37E+01
2.07E+01  2.63E+01  2.91E+01  4.83E+01  2.57E-04   91

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.41E+10  2.51E+10  1.81E+11
2.29E+11  3.27E+11  3.88E+11  4.08E+11  4.11E-03   54
 POP.-DEPENDENT COSTS                   1.0000  5.39E+10  2.51E+10  1.81E+11
2.29E+11  3.27E+11  3.88E+11  4.08E+11  4.11E-03   54
 FARM-DEPENDENT COSTS                   1.0000  2.05E+08  1.07E+08  5.90E+08
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7.31E+08  9.53E+08  1.01E+09  1.05E+09  1.71E-04  140
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.33E+10  5.93E+09  3.45E+10
5.47E+10  1.06E+11  1.21E+11  1.25E+11  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.43E+07  6.52E+06  3.59E+07
4.35E+07  5.51E+07  5.86E+07  7.10E+07  6.56E-04   54
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.96E+10  1.74E+10  1.03E+11
1.33E+11  2.26E+11  2.69E+11  2.83E+11  4.11E-03   54
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.68E+08  6.90E+07  5.08E+08
6.48E+08  7.62E+08  7.95E+08  9.78E+08  1.71E-04  140
 POP.-DEPENDENT CONDEMNATION COST       0.9933  9.36E+08  7.89E+08  1.84E+09
2.21E+09  3.03E+09  3.30E+09  5.54E+09  5.71E-05   48
 FARM-DEPENDENT CONDEMNATION COST       0.9933  3.02E+05  2.83E+05  6.74E+05
8.09E+05  1.10E+06  1.22E+06  1.78E+06  3.71E-04   48
 EMERGENCY PHASE COST                   1.0000  1.46E+07  1.07E+07  2.75E+07
5.26E+07  7.15E+07  7.28E+07  7.48E+07  1.82E-03   58
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  07:21:17    PAGE  12          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  7.24E+05  7.75E+04  2.28E+06
2.96E+06  4.08E+06  4.68E+06  5.51E+06  1.14E-03   82
 CROP DISPOSAL COST                     1.0000  2.18E+07  1.66E+07  5.00E+07
5.51E+07  6.89E+07  7.23E+07  8.38E+07  3.42E-04  140
XXXX
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2.62E+05 3.43E+05 3.69E+05 4.99E+05 2.85E-04 127

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL 0-16.1 km 1.0000 7.00E-04 6.75E-04 1.06E-03
1.10E-03 1.22E-03 1.27E-03 1.99E-03 3.35E-06 39
  DATE AND TIME OF RUN = MACCS2 13-NOV-09 07:21:17 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

SOURCE TERM 4 OF 8:
    EARLY LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE

13-NOV-09 07:21:17 PAGE 14 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL 0-80.5 km 0.0594 8.45E-04 0.00E+00 0.00E+00
5.58E-03 1.36E-02 1.57E-02 5.54E-02 4.61E-04 70
 CAN FAT/TOTAL 0-80.5 km 1.0000 5.84E+02 4.28E+02 1.11E+03
1.44E+03 3.41E+03 4.50E+03 4.86E+03 4.11E-03 54
 CAN FAT/TOTAL 0-16.1 km 1.0000 1.70E+02 1.52E+02 3.06E+02
3.19E+02 3.51E+02 3.66E+02 5.43E+02 3.35E-06 39
 ERL FAT/TOTAL 0-16.1 km 0.0594 8.45E-04 0.00E+00 0.00E+00
5.58E-03 1.36E-02 1.57E-02 5.54E-02 4.61E-04 70

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL 0-0.3 km 0.0594 4.00E-06 0.00E+00 0.00E+00
5.09E-05 6.06E-05 6.53E-05 2.04E-04 8.85E-04 70
 ERL FAT/TOTAL 0.3-1.6 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
 ERL FAT/TOTAL 1.6-3.2 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0

POPULATION DOSE (Sv)
 L-EDEWBODY TOT LIF 0-80.5 km 1.0000 1.01E+04 7.19E+03 2.12E+04
2.83E+04 5.47E+04 6.63E+04 9.90E+04 4.11E-03 54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL 0-3.2 km 0.0594 5.07E-08 0.00E+00 0.00E+00
3.54E-07 9.71E-07 1.25E-06 3.32E-06 4.61E-04 70
 CAN FAT/TOTAL 0-16.1 km 1.0000 4.34E-04 4.14E-04 8.21E-04
9.53E-04 1.05E-03 1.08E-03 1.39E-03 3.35E-06 39
  DATE AND TIME OF RUN = MACCS2 13-NOV-09 07:21:17 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 4 OF 8:
    EARLY LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

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13-NOV-09  07:21:17    PAGE  15          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.78E+03  1.26E+03  7.59E+03
1.02E+04  1.26E+04  1.38E+04  2.05E+04  2.85E-04  127
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.28E+02  1.15E+02  2.05E+02
2.18E+02  2.52E+02  2.68E+02  3.39E+02  3.35E-06   38

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  6.18E+04  2.90E+04  1.64E+05
2.32E+05  3.26E+05  3.48E+05  4.56E+05  2.85E-04  127

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.66E-04  2.59E-04  4.32E-04
5.02E-04  5.32E-04  5.46E-04  7.07E-04  2.17E-06   38

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  6.18E+04  2.90E+04  1.64E+05
2.32E+05  3.26E+05  3.48E+05  4.56E+05  2.85E-04  127
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  6.07E+04  2.76E+04  1.63E+05
2.32E+05  3.26E+05  3.48E+05  4.56E+05  2.85E-04  127
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.73E+02  1.22E+02  3.44E+02
3.94E+02  5.22E+02  5.64E+02  6.07E+02  2.60E-03   83
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.80E+04  2.63E+04  1.47E+05
2.17E+05  3.23E+05  3.42E+05  4.35E+05  2.85E-04  127
 LONG-TERM RESUSPENSION DOSE            1.0000  2.68E+03  1.20E+03  7.55E+03
1.02E+04  1.25E+04  1.37E+04  2.06E+04  2.85E-04  127
 WATER INGESTION DOSE                   1.0000  5.22E+01  4.48E+01  9.88E+01
1.12E+02  1.49E+02  1.68E+02  2.25E+02  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  9.42E+02  6.96E+02  1.67E+03
2.22E+03  5.42E+03  8.68E+03  2.37E+04  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  5.31E-01  2.59E-01  1.29E+00
2.18E+00  3.38E+00  3.66E+00  5.03E+00  2.06E-04    7
 INGESTION OF GRAINS                    1.0000  4.26E+00  9.00E-01  1.25E+01
1.56E+01  2.13E+01  2.25E+01  2.92E+01  1.71E-04  140
 INGESTION OF LEAF VEG                  1.0000  8.22E+00  1.76E+00  2.25E+01
3.39E+01  7.25E+01  7.65E+01  9.13E+01  5.14E-04   82
 INGESTION OF ROOT CROPS                1.0000  5.74E+00  1.26E+00  1.77E+01
2.28E+01  3.10E+01  3.24E+01  3.97E+01  1.71E-04  140
 INGESTION OF FRUITS                    1.0000  8.66E+00  2.27E+00  2.72E+01
3.29E+01  4.46E+01  5.02E+01  5.84E+01  1.71E-04  140
 INGESTION OF LEGUMES                   1.0000  5.27E+00  1.70E+00  1.43E+01
1.96E+01  2.66E+01  3.00E+01  3.40E+01  1.71E-04  140
 INGESTION OF BEEF                      1.0000  4.51E+01  2.28E+01  1.06E+02
1.16E+02  1.46E+02  1.61E+02  2.27E+02  1.71E-04   45
 INGESTION OF MILK                      1.0000  2.80E+01  1.40E+01  7.33E+01
9.12E+01  1.10E+02  1.16E+02  1.42E+02  3.15E-04  120
 INGESTION OF POULTRY                   1.0000  1.27E+01  6.25E+00  3.17E+01
4.68E+01  7.83E+01  9.05E+01  1.03E+02  5.14E-04   82
 INGESTION OF OTHER MEAT CROPS          1.0000  3.33E+00  1.69E+00  8.82E+00
1.08E+01  1.43E+01  1.62E+01  2.20E+01  1.51E-03   96

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  8.06E+09  3.78E+09  1.32E+10
2.70E+10  8.29E+10  9.75E+10  2.61E+11  4.11E-03   54
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 POP.-DEPENDENT COSTS                    1.0000  7.97E+09  3.60E+09  1.32E+10
2.70E+10  8.29E+10  9.75E+10  2.61E+11  4.11E-03   54
 FARM-DEPENDENT COSTS                    1.0000  9.42E+07  3.18E+07  3.09E+08
3.42E+08  4.34E+08  4.80E+08  5.19E+08  6.56E-04   54
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.90E+09  8.27E+08  3.37E+09
6.50E+09  2.40E+10  2.86E+10  7.40E+10  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  2.42E+06  6.06E+05  6.46E+06
1.00E+07  2.33E+07  2.93E+07  3.16E+07  6.56E-04   54
 POP.-DEPENDENT INTERDICTION COST        1.0000  5.98E+09  2.88E+09  1.02E+10
2.04E+10  7.96E+10  9.51E+10  1.87E+11  4.11E-03   54
 FARM-DEPENDENT INTERDICTION COST        1.0000  8.01E+07  1.83E+07  3.01E+08
3.23E+08  3.81E+08  4.09E+08  4.78E+08  1.08E-03    6
 POP.-DEPENDENT CONDEMNATION COST        0.9780  8.83E+07  7.62E+07  2.10E+08
3.04E+08  3.94E+08  4.41E+08  1.05E+09  1.34E-05    1
 FARM-DEPENDENT CONDEMNATION COST        0.8924  2.34E+04  7.62E+03  7.30E+04
7.62E+04  8.40E+04  8.77E+04  2.90E+05  1.34E-05    1
 EMERGENCY PHASE COST                    1.0000  1.89E+06  1.55E+06  4.02E+06
5.23E+06  7.35E+06  7.82E+06  1.23E+07  5.55E-05    7
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  07:21:17    PAGE  16          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  4.33E+05  3.18E+04  1.38E+06
1.93E+06  3.16E+06  3.52E+06  4.75E+06  7.42E-04   82
 CROP DISPOSAL COST                      1.0000  1.12E+07  7.83E+06  2.73E+07
3.18E+07  3.83E+07  4.15E+07  5.23E+07  8.56E-04    6
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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.62E+05  8.25E+04  4.61E+05
5.35E+05  6.51E+05  7.84E+05  1.08E+06  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.53E-03  1.28E-03  2.51E-03
2.98E-03  3.16E-03  3.23E-03  3.66E-03  1.14E-04  103
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  07:21:17    PAGE  18          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.3347  1.14E-01  0.00E+00  4.19E-01
7.40E-01  9.57E-01  1.35E+00  3.68E+00  1.83E-03    6
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.64E+03  1.16E+03  3.30E+03
4.27E+03  7.43E+03  9.66E+03  1.61E+04  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.43E+02  4.00E+02  7.85E+02
9.57E+02  1.04E+03  1.07E+03  1.15E+03  4.28E-04    6
 ERL FAT/TOTAL               0-16.1 km  0.3347  1.14E-01  0.00E+00  4.19E-01
7.40E-01  9.57E-01  1.35E+00  3.68E+00  1.83E-03    6

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.3347  5.37E-04  0.00E+00  2.05E-03
2.32E-03  5.46E-03  1.07E-02  1.35E-02  4.08E-03    6
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.57E+04  2.41E+04  7.58E+04
1.06E+05  1.75E+05  2.54E+05  3.74E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.3347  6.82E-06  0.00E+00  2.57E-05
3.37E-05  4.73E-05  8.24E-05  2.21E-04  1.83E-03    6
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.13E-03  1.03E-03  1.95E-03
2.09E-03  2.35E-03  2.46E-03  2.94E-03  4.28E-04    6
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  07:21:17    PAGE  19          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.63E+03  2.50E+03  1.53E+04
2.06E+04  2.65E+04  2.95E+04  3.30E+04  3.71E-04   69
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.26E+02  2.11E+02  3.13E+02
3.25E+02  3.57E+02  3.71E+02  5.16E+02  2.59E-05  148

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.26E+05  5.65E+04  3.28E+05
4.01E+05  5.94E+05  6.85E+05  7.39E+05  4.48E-03   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.96E-04  3.57E-04  6.02E-04
6.82E-04  7.20E-04  7.30E-04  8.43E-04  2.93E-06   33

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.26E+05  5.65E+04  3.28E+05
4.01E+05  5.94E+05  6.85E+05  7.39E+05  4.48E-03   69
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.20E+05  5.02E+04  3.19E+05
3.88E+05  5.31E+05  5.63E+05  7.20E+05  3.71E-04   69
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.22E+02  3.59E+02  7.30E+02
7.79E+02  9.07E+02  9.68E+02  1.23E+03  1.86E-03   54
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.18E+05  4.89E+04  3.17E+05
3.81E+05  5.26E+05  5.58E+05  7.04E+05  3.71E-04   69
 LONG-TERM RESUSPENSION DOSE            1.0000  2.68E+03  1.09E+03  7.48E+03
9.89E+03  1.15E+04  1.22E+04  1.54E+04  3.71E-04   69
 WATER INGESTION DOSE                   1.0000  3.51E+02  3.13E+02  6.61E+02
7.37E+02  8.57E+02  9.15E+02  1.22E+03  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  5.18E+03  3.19E+03  1.03E+04
1.37E+04  3.55E+04  4.64E+04  1.11E+05  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.14E+00  1.90E+00  1.10E+01
1.38E+01  2.12E+01  2.32E+01  3.10E+01  6.56E-04   54
 INGESTION OF GRAINS                    1.0000  2.41E+00  8.28E-01  7.31E+00
8.81E+00  1.20E+01  1.34E+01  1.58E+01  1.74E-03   46
 INGESTION OF LEAF VEG                  1.0000  4.67E+00  2.34E+00  1.21E+01
1.62E+01  2.43E+01  2.74E+01  4.02E+01  4.44E-04   81
 INGESTION OF ROOT CROPS                1.0000  3.51E+00  1.43E+00  1.02E+01
1.14E+01  1.49E+01  1.68E+01  2.08E+01  1.74E-03   46
 INGESTION OF FRUITS                    1.0000  6.45E+00  3.29E+00  1.64E+01
2.07E+01  2.47E+01  2.67E+01  3.12E+01  1.74E-03   46
 INGESTION OF LEGUMES                   1.0000  3.93E+00  2.13E+00  1.01E+01
1.11E+01  1.41E+01  1.56E+01  1.81E+01  1.74E-03   46
 INGESTION OF BEEF                      1.0000  2.47E+01  9.90E+00  6.83E+01
1.01E+02  1.18E+02  1.27E+02  2.70E+02  5.71E-05  116
 INGESTION OF MILK                      1.0000  1.48E+01  5.19E+00  4.67E+01
6.42E+01  9.58E+01  1.07E+02  2.31E+02  5.71E-05  116
 INGESTION OF POULTRY                   1.0000  6.78E+00  3.99E+00  1.46E+01
1.86E+01  3.31E+01  3.63E+01  5.00E+01  4.44E-04   81
 INGESTION OF OTHER MEAT CROPS          1.0000  3.39E+00  1.35E+00  1.04E+01
1.22E+01  1.76E+01  2.03E+01  4.13E+01  5.71E-05  116
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ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  3.97E+10  1.96E+10  1.00E+11
1.65E+11  2.55E+11  2.89E+11  3.98E+11  4.11E-03   54
 POP.-DEPENDENT COSTS                    1.0000  3.94E+10  1.92E+10  9.66E+10
1.64E+11  2.55E+11  2.89E+11  3.98E+11  4.11E-03   54
 FARM-DEPENDENT COSTS                    1.0000  2.50E+08  1.40E+08  7.04E+08
7.69E+08  9.43E+08  1.01E+09  1.06E+09  5.14E-04  142
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  9.73E+09  4.04E+09  2.45E+10
3.72E+10  7.05E+10  9.26E+10  1.25E+11  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.14E+07  4.49E+06  3.09E+07
3.70E+07  5.24E+07  5.64E+07  7.10E+07  6.56E-04   54
 POP.-DEPENDENT INTERDICTION COST       1.0000  2.84E+10  1.17E+10  7.46E+10
1.15E+11  2.01E+11  2.55E+11  2.73E+11  4.11E-03   54
 FARM-DEPENDENT INTERDICTION COST       1.0000  2.06E+08  8.39E+07  5.92E+08
7.15E+08  7.91E+08  8.26E+08  9.53E+08  5.14E-04  142
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.32E+09  1.13E+09  2.64E+09
3.23E+09  4.34E+09  4.92E+09  5.78E+09  9.58E-04   86
 FARM-DEPENDENT CONDEMNATION COST       1.0000  4.54E+05  3.45E+05  1.02E+06
1.20E+06  1.75E+06 NOT-FOUND  1.90E+06  7.03E-03   16
 EMERGENCY PHASE COST                    1.0000  7.52E+06  7.12E+06  1.25E+07
1.46E+07  2.01E+07  2.04E+07  2.32E+07  2.59E-05  148
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  07:21:17    PAGE  20          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  9.77E+05  2.69E+05  2.71E+06
3.33E+06  4.91E+06  5.15E+06  6.26E+06  8.56E-05   47
 CROP DISPOSAL COST                      1.0000  3.11E+07  3.00E+07  5.32E+07
5.77E+07  6.96E+07  7.78E+07  8.18E+07  3.68E-03   47
XXXX
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XXXX

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1.08E+04  1.58E+04  1.85E+04  2.13E+04  1.28E-03   59
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.05E+02  2.80E+02  5.05E+02
5.39E+02  6.25E+02  6.66E+02  7.56E+02  1.14E-04   45

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  6.36E+04  3.29E+04  1.70E+05
2.29E+05  3.37E+05  3.77E+05  4.70E+05  1.28E-03   59

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.17E-04  6.60E-04  1.06E-03
1.12E-03  1.27E-03  1.34E-03  1.80E-03  1.14E-04   45
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  07:21:17    PAGE  22          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  4.29E+02  3.46E+02  8.04E+02
1.06E+03  1.74E+03  2.49E+03  3.34E+03  4.11E-03   54
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.63E+02  1.36E+02  3.00E+02
3.15E+02  3.50E+02  3.66E+02  4.42E+02  2.85E-04  111
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  7.89E+03  6.26E+03  1.58E+04
2.11E+04  3.47E+04  4.61E+04  7.13E+04  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.17E-04  3.66E-04  7.40E-04
8.41E-04  1.02E-03  1.04E-03  1.13E-03  2.85E-04  111
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES
```

"CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 6 OF 8:
LATE MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

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                                PROB                                QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL                0-80.5 km  1.0000  2.50E+03  1.15E+03  6.64E+03
1.02E+04  1.35E+04  1.52E+04  1.93E+04  1.28E-03   59
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.42E+02  1.20E+02  2.08E+02
2.22E+02  2.56E+02  2.73E+02  3.29E+02  3.35E-06   20

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  5.57E+04  2.53E+04  1.57E+05
2.18E+05  3.15E+05  3.50E+05  4.30E+05  1.28E-03   59

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  3.00E-04  2.90E-04  4.57E-04
5.05E-04  5.29E-04  5.40E-04  6.74E-04  2.17E-06   20

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  5.57E+04  2.53E+04  1.57E+05
2.18E+05  3.15E+05  3.50E+05  4.30E+05  1.28E-03   59
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  5.47E+04  2.47E+04  1.53E+05
2.15E+05  3.15E+05  3.49E+05  4.28E+05  1.28E-03   59
 TOTAL INGESTION PATHWAYS DOSE           1.0000  1.53E+02  1.16E+02  2.91E+02
3.27E+02  4.09E+02 NOT-FOUND  4.27E+02  7.36E-03  118
 LONG-TERM GROUNDSHINE DOSE              1.0000  5.26E+04  2.37E+04  1.48E+05
2.09E+05  2.83E+05  3.21E+05  4.11E+05  1.28E-03   59
 LONG-TERM RESUSPENSION DOSE             1.0000  2.14E+03  9.41E+02  5.84E+03
7.79E+03  1.12E+04  1.29E+04  1.69E+04  1.28E-03   59
 WATER INGESTION DOSE                    1.0000  6.64E+01  5.92E+01  1.09E+02
1.21E+02  1.55E+02  1.72E+02  2.30E+02  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  8.59E+02  6.36E+02  1.27E+03
1.50E+03  5.33E+03  8.68E+03  2.03E+04  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  5.51E-01  3.06E-01  1.11E+00
1.80E+00  3.13E+00  3.34E+00  4.03E+00  6.56E-04   54
 INGESTION OF GRAINS                     1.0000  2.82E+00  5.40E-01  9.34E+00
1.20E+01  2.00E+01  2.15E+01  2.31E+01  2.60E-03   47
 INGESTION OF LEAF VEG                   1.0000  4.77E+00  1.32E+00  1.47E+01
2.03E+01  2.52E+01  2.76E+01  5.59E+01  1.96E-05   72
 INGESTION OF ROOT CROPS                 1.0000  3.84E+00  8.32E-01  1.15E+01
1.40E+01  2.18E+01  2.57E+01  3.03E+01  2.60E-03   47
 INGESTION OF FRUITS                     1.0000  5.90E+00  1.70E+00  1.84E+01
2.27E+01  3.25E+01  3.83E+01  4.46E+01  2.60E-03   47
 INGESTION OF LEGUMES                    1.0000  3.59E+00  1.21E+00  1.10E+01
1.34E+01  2.07E+01  2.32E+01  2.59E+01  2.60E-03   47
 INGESTION OF BEEF                       1.0000  3.29E+01  1.39E+01  8.67E+01
1.06E+02  1.40E+02  1.59E+02  1.78E+02  2.60E-03   47
 INGESTION OF MILK                       1.0000  2.14E+01  9.05E+00  5.61E+01
7.18E+01  1.03E+02  1.07E+02  1.28E+02  3.15E-04  120
 INGESTION OF POULTRY                    1.0000  8.19E+00  4.24E+00  1.87E+01
2.49E+01  3.64E+01  4.09E+01  6.69E+01  1.14E-04   84
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 INGESTION OF OTHER MEAT CROPS          1.0000  3.37E+00  1.51E+00  1.03E+01
1.19E+01  1.68E+01  1.95E+01  2.58E+01  1.71E-04   94

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  7.67E+09  4.92E+09  1.17E+10
1.67E+10  7.37E+10  9.65E+10  2.61E+11  4.11E-03   54
 POP.-DEPENDENT COSTS                   1.0000  7.56E+09  4.71E+09  1.17E+10
1.67E+10  7.37E+10  9.65E+10  2.61E+11  4.11E-03   54
 FARM-DEPENDENT COSTS                   1.0000  1.05E+08  3.74E+07  3.17E+08
3.99E+08  7.04E+08  7.19E+08  7.64E+08  6.56E-04   54
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.81E+09  1.03E+09  3.30E+09
4.35E+09  2.11E+10  2.78E+10  7.40E+10  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.61E+06  1.07E+06  6.46E+06
8.70E+06  2.33E+07  2.93E+07  3.16E+07  6.56E-04   54
 POP.-DEPENDENT INTERDICTION COST       1.0000  5.57E+09  3.27E+09  1.05E+10
1.52E+10  5.51E+10  8.83E+10  1.87E+11  4.11E-03   54
 FARM-DEPENDENT INTERDICTION COST       1.0000  8.84E+07  2.33E+07  2.91E+08
3.67E+08  5.29E+08  5.64E+08  6.78E+08  6.56E-04   54
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.82E+08  1.17E+08  4.30E+08
5.40E+08  1.00E+09  1.03E+09  1.05E+09  3.24E-03    6
 FARM-DEPENDENT CONDEMNATION COST       0.9407  3.45E+04  9.23E+03  7.73E+04
8.23E+04  9.52E+04  1.24E+05  4.22E+05  5.14E-06    1
 EMERGENCY PHASE COST                   1.0000  1.57E+06  1.19E+06  3.44E+06
4.89E+06  5.59E+06  5.87E+06  7.86E+06  5.71E-05  139
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  07:21:17    PAGE  24          PROB                           QUANTILES
                           PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  5.58E+05  4.35E+04  1.79E+06
2.47E+06  3.66E+06  4.14E+06  5.55E+06  1.71E-04   47
 CROP DISPOSAL COST                     1.0000  1.36E+07  8.21E+06  3.30E+07
4.02E+07  5.59E+07  6.13E+07  8.03E+07  1.86E-03   54
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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  7.43E+02  4.29E+02  1.61E+03
2.23E+03  4.21E+03  6.12E+03  1.30E+04  4.11E-03   54
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.08E+02  1.03E+02  1.67E+02
2.01E+02  2.12E+02  2.17E+02  2.63E+02  1.68E-05  148

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.66E+04  1.03E+04  3.36E+04
4.49E+04  1.20E+05  1.79E+05  2.90E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.66E-04  2.47E-04  4.17E-04
4.97E-04  5.26E-04  5.39E-04  6.48E-04  1.68E-05  148
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  07:21:17    PAGE  26          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  7.47E+01  6.35E+01  1.28E+02
1.68E+02  2.70E+02  4.04E+02  6.17E+02  4.11E-03   54
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.94E+01  2.74E+01  5.34E+01
6.90E+01  7.46E+01  7.68E+01  8.30E+01  7.42E-04   86
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.59E+03  1.17E+03  3.06E+03
3.77E+03  6.15E+03  8.62E+03  1.37E+04  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.52E-05  7.13E-05  1.29E-04
1.59E-04  2.03E-04  2.06E-04  2.13E-04  7.42E-04   86
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
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  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  07:21:17    PAGE  27          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.69E+02  3.70E+02  1.41E+03
1.99E+03  4.09E+03  6.12E+03  1.23E+04  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.89E+01  7.48E+01  1.08E+02
1.14E+02  1.28E+02  1.35E+02  2.02E+02  3.79E-06   76

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.50E+04  8.47E+03  3.22E+04
4.26E+04  8.70E+04  1.52E+05  2.77E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.91E-04  1.70E-04  3.04E-04
3.14E-04  3.39E-04  3.50E-04  4.91E-04  3.79E-06   76

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.50E+04  8.47E+03  3.22E+04
4.26E+04  8.70E+04  1.52E+05  2.77E+05  4.11E-03   54
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.48E+04  8.23E+03  3.21E+04
4.26E+04  8.62E+04  1.52E+05  2.77E+05  4.11E-03   54
 TOTAL INGESTION PATHWAYS DOSE          1.0000  8.30E+01  3.96E+01  2.23E+02
2.72E+02  3.84E+02  4.41E+02  6.26E+02  1.71E-04   84
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.42E+04  7.91E+03  3.04E+04
4.11E+04  8.58E+04  1.52E+05  2.65E+05  4.11E-03   54
 LONG-TERM RESUSPENSION DOSE            1.0000  6.47E+02  3.48E+02  1.40E+03
1.97E+03  4.09E+03  6.12E+03  1.22E+04  4.11E-03   54
 WATER INGESTION DOSE                   1.0000  1.35E+01  1.12E+01  2.28E+01
2.65E+01  3.53E+01  3.93E+01  4.58E+01  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  8.30E+01  7.31E+01  1.71E+02
2.03E+02  2.16E+02  2.22E+02  2.86E+02  9.99E-06   19
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.58E-02  2.50E-02  7.92E-02
9.59E-02  2.02E-01  2.11E-01  2.50E-01  2.85E-04  139
 INGESTION OF GRAINS                    1.0000  2.63E+00  3.68E-01  9.84E+00
1.15E+01  1.60E+01  1.85E+01  2.43E+01  1.51E-03   69
 INGESTION OF LEAF VEG                  1.0000  4.61E+00  7.03E-01  1.44E+01
2.18E+01  3.64E+01  4.15E+01  9.95E+01  1.71E-04   84
 INGESTION OF ROOT CROPS                1.0000  3.56E+00  5.57E-01  1.14E+01
1.45E+01  2.26E+01  2.56E+01  3.19E+01  1.51E-03   69
 INGESTION OF FRUITS                    1.0000  5.19E+00  7.66E-01  1.84E+01
2.32E+01  3.31E+01  3.76E+01  4.68E+01  1.51E-03   69
 INGESTION OF LEGUMES                   1.0000  3.18E+00  6.99E-01  1.07E+01
1.29E+01  1.96E+01  2.23E+01  2.74E+01  1.51E-03   69
 INGESTION OF BEEF                      1.0000  2.42E+01  8.69E+00  7.43E+01
9.66E+01  1.21E+02  1.32E+02  1.77E+02  5.14E-04  142
 INGESTION OF MILK                      1.0000  1.75E+01  6.87E+00  5.16E+01
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6.27E+01  8.41E+01  9.34E+01  1.06E+02  1.51E-03    9
 INGESTION OF POULTRY                   1.0000  7.04E+00  2.42E+00  2.13E+01
3.09E+01  4.98E+01  5.65E+01  1.30E+02  1.71E-04   84
 INGESTION OF OTHER MEAT CROPS          1.0000  1.56E+00  6.58E-01  4.06E+00
5.44E+00  9.05E+00  1.07E+01  2.30E+01  1.71E-04   84

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  6.74E+08  6.14E+08  1.05E+09
1.09E+09  1.20E+09  1.25E+09  1.98E+09  2.09E-06   26
 POP.-DEPENDENT COSTS                   1.0000  6.55E+08  5.86E+08  1.04E+09
1.09E+09  1.19E+09  1.24E+09  1.96E+09  2.09E-06   26
 FARM-DEPENDENT COSTS                   1.0000  1.91E+07  4.45E+06  6.22E+07
8.35E+07  2.07E+08  2.30E+08  2.38E+08  4.00E-03   54
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.62E+08  1.35E+08  3.02E+08
3.14E+08  3.45E+08  3.60E+08  4.89E+08  2.59E-05  148
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.02E+05  9.59E+04  4.46E+05
7.84E+05  1.09E+06  1.14E+06  1.40E+06  2.85E-04  139
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.86E+08  4.39E+08  9.45E+08
1.02E+09  1.08E+09  1.11E+09  1.47E+09  2.09E-06   26
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.64E+07  2.79E+06  5.51E+07
7.80E+07  2.02E+08  2.07E+08  2.25E+08  6.56E-04   54
 POP.-DEPENDENT CONDEMNATION COST       0.8577  7.58E+06  4.39E+06  1.26E+07
1.42E+07  1.90E+07  1.03E+08  1.25E+08  9.46E-04    1
 FARM-DEPENDENT CONDEMNATION COST       0.8593  1.04E+04  3.88E+03  9.84E+03
7.07E+04 NOT-FOUND NOT-FOUND  7.73E+04  1.64E-02    1
 EMERGENCY PHASE COST                   0.9914  1.63E+05  8.76E+04  4.03E+05
5.11E+05  8.08E+05  8.94E+05  1.13E+06  4.28E-04    6
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  07:21:17    PAGE  28          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.23E+05  4.99E+03  4.99E+05
6.83E+05  1.30E+06  1.53E+06  2.34E+06  1.43E-04   59
 CROP DISPOSAL COST                     1.0000  2.37E+06  1.05E+06  6.08E+06
9.96E+06  1.91E+07  2.39E+07  4.23E+07  2.37E-03   54
XXXX
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XXXX

XXXX

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13-NOV-09  07:21:17    PAGE  29          PROB                          QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.32E+02  3.68E+02  1.31E+03
1.77E+03  3.63E+03  4.66E+03  1.10E+04  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  9.42E+01  8.86E+01  1.36E+02
1.58E+02  2.02E+02  2.06E+02  2.34E+02  2.59E-05  148

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.42E+04  8.43E+03  2.92E+04
4.01E+04  8.49E+04  1.52E+05  2.47E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.32E-04  2.17E-04  3.56E-04
4.04E-04  5.05E-04  5.13E-04  5.80E-04  2.59E-05  148
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  07:21:17   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  07:21:17    PAGE  30          PROB                          QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.00E+01  4.19E+01  9.02E+01
1.15E+02  1.88E+02  2.67E+02  3.98E+02  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.96E+01  1.77E+01  3.51E+01
4.43E+01  5.20E+01  5.32E+01  5.76E+01  4.28E-04  127
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.10E+03  9.69E+02  2.11E+03
2.60E+03  4.06E+03  4.88E+03  8.92E+03  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  5.01E-05  4.66E-05  9.29E-05
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1.04E-04 1.17E-04 1.23E-04 1.47E-04 4.28E-04 127
  DATE AND TIME OF RUN = MACCS2 13-NOV-09 07:21:17 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 8 OF 8:
    LATE LOWLOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

13-NOV-09 07:21:17 PAGE 31 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL 0-80.5 km 1.0000 5.82E+02 3.35E+02 1.22E+03
1.66E+03 3.58E+03 4.64E+03 1.06E+04 4.11E-03 54
 CAN FAT/TOTAL 0-16.1 km 1.0000 7.46E+01 7.07E+01 1.06E+02
1.12E+02 1.26E+02 1.32E+02 1.94E+02 2.59E-05 148

POPULATION DOSE (Sv)
 L-EDEWBODY TOT LIF 0-80.5 km 1.0000 1.31E+04 7.62E+03 2.82E+04
3.70E+04 8.44E+04 1.52E+05 2.38E+05 4.11E-03 54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL 0-16.1 km 1.0000 1.82E-04 1.63E-04 3.01E-04
3.13E-04 3.42E-04 3.56E-04 4.78E-04 2.59E-05 148

L-EDEWBODY POP. DOSE (Sv) 0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE 1.0000 1.31E+04 7.62E+03 2.82E+04
3.70E+04 8.44E+04 1.52E+05 2.38E+05 4.11E-03 54
 LONG-TERM DIRECT EXPOSURE PATHWAYS 1.0000 1.29E+04 7.55E+03 2.82E+04
3.70E+04 8.44E+04 1.52E+05 2.38E+05 4.11E-03 54
 TOTAL INGESTION PATHWAYS DOSE 1.0000 8.14E+01 3.44E+01 2.45E+02
3.11E+02 3.80E+02 4.14E+02 6.22E+02 1.71E-04 84
 LONG-TERM GROUNDSHINE DOSE 1.0000 1.26E+04 7.33E+03 2.80E+04
3.70E+04 8.44E+04 1.52E+05 2.31E+05 4.11E-03 54
 LONG-TERM RESUSPENSION DOSE 1.0000 3.56E+02 2.07E+02 7.84E+02
1.14E+03 2.29E+03 2.83E+03 6.62E+03 4.11E-03 54
 WATER INGESTION DOSE 1.0000 1.12E+01 1.02E+01 2.03E+01
2.19E+01 2.61E+01 2.81E+01 3.85E+01 1.86E-03 54
 POP.-DEPENDENT DECONTAMINATION DOSE 1.0000 6.53E+01 5.70E+01 1.10E+02
1.21E+02 1.52E+02 1.68E+02 2.25E+02 9.99E-06 19
 FARM-DEPENDENT DECONTAMINATION DOSE 1.0000 3.00E-02 2.17E-02 6.62E-02
8.23E-02 1.22E-01 1.41E-01 1.96E-01 1.06E-03 127
 INGESTION OF GRAINS 1.0000 2.78E+00 3.79E-01 1.00E+01
1.19E+01 1.78E+01 2.04E+01 2.54E+01 3.15E-04 58
 INGESTION OF LEAF VEG 1.0000 4.84E+00 5.60E-01 1.68E+01
2.51E+01 3.98E+01 4.69E+01 8.51E+01 1.71E-04 84
 INGESTION OF ROOT CROPS 1.0000 3.70E+00 5.36E-01 1.29E+01
1.99E+01 2.42E+01 2.63E+01 3.32E+01 3.15E-04 58
 INGESTION OF FRUITS 1.0000 5.45E+00 7.66E-01 1.92E+01
2.73E+01 3.46E+01 3.70E+01 4.89E+01 3.15E-04 58
 INGESTION OF LEGUMES 1.0000 3.21E+00 4.88E-01 1.07E+01
1.37E+01 2.10E+01 2.23E+01 2.84E+01 3.15E-04 58

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 INGESTION OF BEEF                        1.0000  2.47E+01  8.03E+00  7.65E+01
1.03E+02  1.29E+02  1.43E+02  1.96E+02  5.14E-04  142
 INGESTION OF MILK                        1.0000  1.63E+01  6.23E+00  4.67E+01
6.23E+01  8.74E+01  9.84E+01  1.37E+02  1.71E-04   84
 INGESTION OF POULTRY                     1.0000  7.66E+00  2.35E+00  2.55E+01
3.51E+01  5.51E+01  6.54E+01  1.17E+02  1.71E-04   84
 INGESTION OF OTHER MEAT CROPS            1.0000  1.51E+00  5.86E-01  4.38E+00
6.10E+00  8.75E+00  9.93E+00  1.95E+01  1.71E-04   84

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                     1.0000  5.96E+08  5.50E+08  1.02E+09
1.06E+09  1.16E+09  1.20E+09  1.75E+09  4.18E-06   13
 POP.-DEPENDENT COSTS                     1.0000  5.82E+08  5.33E+08  1.02E+09
1.06E+09  1.15E+09  1.20E+09  1.74E+09  4.18E-06   13
 FARM-DEPENDENT COSTS                     1.0000  1.44E+07  3.53E+06  4.56E+07
6.03E+07  1.34E+08  1.77E+08  1.93E+08  4.00E-03   54
 POP.-DEPENDENT DECONTAMINATION COST      1.0000  1.45E+08  1.23E+08  2.71E+08
3.06E+08  3.31E+08  3.42E+08  4.42E+08  2.55E-05   12
 FARM-DEPENDENT DECONTAMINATION COST      1.0000  1.78E+05  8.74E+04  4.10E+05
7.28E+05  1.05E+06  1.11E+06  1.25E+06  1.20E-03   86
 POP.-DEPENDENT INTERDICTION COST         1.0000  4.30E+08  3.83E+08  8.27E+08
1.00E+09  1.06E+09  1.08E+09  1.31E+09  2.38E-05   18
 FARM-DEPENDENT INTERDICTION COST         1.0000  1.24E+07  2.29E+06  3.82E+07
5.62E+07  1.10E+08  1.25E+08  1.85E+08  6.56E-04   54
 POP.-DEPENDENT CONDEMNATION COST         0.8507  6.79E+06  3.99E+06  1.21E+07
1.36E+07  1.77E+07  1.99E+07  1.25E+08  4.57E-04    1
 FARM-DEPENDENT CONDEMNATION COST         0.7221  1.90E+03  2.01E+03  2.70E+03
4.27E+03 NOT-FOUND NOT-FOUND  8.49E+03  4.03E-02    1
 EMERGENCY PHASE COST                     0.9407  6.28E+04  1.62E+04  1.47E+05
1.87E+05  4.55E+05 NOT-FOUND  4.97E+05  7.85E-03    6
 INTERMEDIATE PHASE COST                  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  07:21:17    PAGE  32          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                       1.0000  1.05E+05  3.81E+03  4.03E+05
6.07E+05  1.15E+06  1.31E+06  2.07E+06  4.85E-04   54
 CROP DISPOSAL COST                       1.0000  1.72E+06  7.25E+05  4.00E+06
6.05E+06  1.48E+07  2.28E+07  3.98E+07  2.37E-03   54

Successful completion of MACCS2 was achieved!
This job required a total of     24.512 CPU seconds

   Input processing required      0.201 CPU seconds
         Simulation required     23.859 CPU seconds
  Output processing required      0.451 CPU seconds
```

```
MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised 1/8/04, K. McFadden
P1:  ATMOS USER INPUT (UNIT 24) = atmbi2NS.INP


P2:  EARLY USER INPUT (UNIT 25) = earbi-noE.INP


P3: CHRONC USER INPUT (UNIT 26) = chrbiEC.INP


P4:  METEOROLOGY DATA (UNIT 28) = meti02.INP


P5:   SITE DATA INPUT (UNIT 29) = siteiEC.INP


P6:       LIST OUTPUT (UNIT 06) = conbi2NS-noE-Nmet02EC.OUT




USER INPUT IS READ FROM UNIT 24
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT

       *

    1  RIATNAM1001 'ATMOS INPUT FOR IPEC CALCULATIONS'

*******************************************************************************

       * GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/

       *

       * NUMBER OF RADIAL SPATIAL ELEMENTS

       *

    2  GENUMRAD001  15

       *

       *

       *

    3  GESPAEND001     0.32      1.61      3.22      4.83      6.44
```

```
  4  GESPAEND002     8.05      9.66     11.27     12.87     14.48
  5  GESPAEND003    16.09     32.19     48.28     64.37     80.47

*******************************************************************************
     * NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
     *
     * Number of pseudo-stable nuclides (used to truncate the decay chains)
     *
  6  ISNUMSTB001      27
     *
     * List of pseudo-stable nuclides
     *
  7  ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
  8  ISNAMSTB002     Xe-131m  (daughter of I-131)
  9  ISNAMSTB003     Xe-133m  (daughter of I-133)
 10  ISNAMSTB004     Xe-135m  (daughter of I-135)
 11  ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
 12  ISNAMSTB006     Sm-147   (daughter of Pm-147)
 13  ISNAMSTB007     U-234    (daughter of Pu-238)
 14  ISNAMSTB008     U-235    (daughter of Pu-239)
 15  ISNAMSTB009     U-236    (daughter of Pu-240)
 16  ISNAMSTB010     U-237    (daughter of Pu-241)
 17  ISNAMSTB011     Np-237   (daughter of Am-241)
 18  ISNAMSTB012     Rb-87    (daughter of Kr-87)
 19  ISNAMSTB013     Ba-137m  (daughter of Cs-137)
 20  ISNAMSTB014     Rb-88    (daughter of Kr-88)
 21  ISNAMSTB015     Y-91m    (daughter of Sr-91)
 22  ISNAMSTB016     Zr-93    (daughter of Y-93)
 23  ISNAMSTB017     Nb-93m   (daughter of Zr-93)
 24  ISNAMSTB018     Nb-95m   (daughter of Zr-95)
 25  ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
 26  ISNAMSTB020     Nb-97m   (daughter of Zr-97)
```

```
27  ISNAMSTB021     Tc-99    (daughter of Mo-99)
28  ISNAMSTB022     Rh-103m  (daughter of Ru-103)
29  ISNAMSTB023     Rh-106   (daughter of Ru-106)
30  ISNAMSTB024    Te-131    (daughter of Te-131m)
31  ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
32  ISNAMSTB026     Pr-144m  (daughter of Ce-144)
33  ISNAMSTB027     Pm-147   (daughter of Nd-147)
    *
    * Number of radioactive nuclides to be considered
    *
34  ISNUMISO001 60
    *
    * NUMBER OF NUCLIDE GROUPS
    *
35  ISMAXGRP001  9
    *
    * WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
    *
    *              WETDEP     DRYDEP
    *
36  ISDEPFLA001    .FALSE.   .FALSE.
37  ISDEPFLA002    .TRUE.    .TRUE.
38  ISDEPFLA003    .TRUE.    .TRUE.
39  ISDEPFLA004    .TRUE.    .TRUE.
40  ISDEPFLA005    .TRUE.    .TRUE.
41  ISDEPFLA006    .TRUE.    .TRUE.
42  ISDEPFLA007    .TRUE.    .TRUE.
43  ISDEPFLA008    .TRUE.    .TRUE.
44  ISDEPFLA009    .TRUE.    .TRUE.
    *
    * NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
```

```
*
*                NUCNAM    IGROUP
*
ISOTPGRP001      Co-58        6
ISOTPGRP002      Co-60        6
ISOTPGRP003      Kr-85        1
ISOTPGRP004      Kr-85m       1
ISOTPGRP005      Kr-87        1
ISOTPGRP006      Kr-88        1
ISOTPGRP007      Rb-86        3
ISOTPGRP008      Sr-89        5
ISOTPGRP009      Sr-90        5
ISOTPGRP010      Sr-91        5
ISOTPGRP011      Sr-92        5
ISOTPGRP012      Y-90         7
ISOTPGRP013      Y-91         7
ISOTPGRP014      Y-92         7
ISOTPGRP015      Y-93         7
ISOTPGRP016      Zr-95        7
ISOTPGRP017      Zr-97        7
ISOTPGRP018      Nb-95        7
ISOTPGRP019      Mo-99        6
ISOTPGRP020      Tc-99m       6
ISOTPGRP021      Ru-103       6
ISOTPGRP022      Ru-105       6
ISOTPGRP023      Ru-106       6
ISOTPGRP024      Rh-105       6
ISOTPGRP025      Sb-127       4
ISOTPGRP026      Sb-129       4
ISOTPGRP027      Te-127       4
ISOTPGRP028      Te-127m      4
ISOTPGRP029      Te-129       4
```

74	ISOTPGRP030	Te-129m	4
75	ISOTPGRP031	Te-131m	4
76	ISOTPGRP032	Te-132	4
77	ISOTPGRP033	I-131	2
78	ISOTPGRP034	I-132	2
79	ISOTPGRP035	I-133	2
80	ISOTPGRP036	I-134	2
81	ISOTPGRP037	I-135	2
82	ISOTPGRP038	Xe-133	1
83	ISOTPGRP039	Xe-135	1
84	ISOTPGRP040	Cs-134	3
85	ISOTPGRP041	Cs-136	3
86	ISOTPGRP042	Cs-137	3
87	ISOTPGRP043	Ba-139	9
88	ISOTPGRP044	Ba-140	9
89	ISOTPGRP045	La-140	7
90	ISOTPGRP046	La-141	7
91	ISOTPGRP047	La-142	7
92	ISOTPGRP048	Ce-141	8
93	ISOTPGRP049	Ce-143	8
94	ISOTPGRP050	Ce-144	8
95	ISOTPGRP051	Pr-143	7
96	ISOTPGRP052	Nd-147	7
97	ISOTPGRP053	Np-239	8
98	ISOTPGRP054	Pu-238	8
99	ISOTPGRP055	Pu-239	8
100	ISOTPGRP056	Pu-240	8
101	ISOTPGRP057	Pu-241	8
102	ISOTPGRP058	Am-241	7
103	ISOTPGRP059	Cm-242	7
104	ISOTPGRP060	Cm-244	7

```
*****************************************************************************
       * WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
       *
       * WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
       *
  105  WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
       *
       * WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
       *
  106  WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)

*****************************************************************************
       * DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
       *
       * NUMBER OF PARTICLE SIZE GROUPS
       *
  107  DDNPSGRP001   1
       *
       * DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
       *
  108  DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)

*****************************************************************************
       * DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/,
/DISPZ/
       *
       * # of distances in plume-size tables--which can be used as an alternative to
the power-law model:
       * (to utilize the power-law model, set NUM_DIST to zero or delete the
following data card)
       *
  109  NUM_DIST001   0
       *
       * SIGMA = A * X ** B
       *
```

```
      * Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km

      * as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).

      * P-G CLASS:          A            B            C            D            E
       F
  110  DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
    0.0722
  111  DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
    0.9031
  112  DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
    0.2
  113  DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
    0.6020
      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1

      *

  114  DPYSCALE001    1.

      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,

      *  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.

      *  (Z1 / Z0) ** 0.2,   FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27

      *

  115  DPZSCALE001    1.27

****************************************************************************** *

      * EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/

      *

      * TIME BASE FOR EXPANSION FACTOR (SECONDS)

      *

  116  PMTIMBAS001    600.   (10 MINUTES)

      *

      * BREAK POINT FOR FORMULA CHANGE (SECONDS)

      *

  117  PMBRKPNT001   3600.   (1 HOUR)

      *

      * EXPONENTIAL EXPANSION FACTOR NUMBER 1

      *

  118  PMXPFAC1001      0.2
```

```
        *
        * EXPONENTIAL EXPANSION FACTOR NUMBER 2
        *
  119   PMXPFAC2001      0.25
*******************************************************************************
        * PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
        *
        * SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT
PLUME
        * (USED BY FUNCTION CAUGHT)
        *
  120   PRSCLCRW001   1.
        *
        * SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  121   PRSCLADP001   1.
        *
        * SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  122   PRSCLEFP001   1.
*******************************************************************************
        * RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
        ********************** RELEASE DATA BLOCK ************
        * SOURCE TERM NUMBER  1 OF 8
  123   RDATNAM2001 'NCF'
        *
        * TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
        * CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
        * PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
        *
```

```
124  RDOALARM001   1.66E+04
     *
     * NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
     *
125  RDNUMREL001          1
     *
     * SELECTION OF RISK DOMINANT PLUME
     *
126  RDMAXRIS001          1
     *
     * REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
     *
127  RDREFTIM001        0.5
     *
     * HEAT CONTENT OF THE RELEASE SEGMENTS (W)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
128  RDPLHEAT001   9.20E+05
     *
     * HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
129  RDPLHITE001        30.
     *
     * DURATION OF THE PLUME SEGMENTS (S)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
130  RDPLUDUR001   8.64E+04
     *
     * TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
```

```
*
RDPDELAY001   0.00E+00
*
* Initial value of sigma-y for each plume--Note: values required for each
plume
*
SIGYINIT001   9.9  (initial sigma-y = W/4.3 = 42.5/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each
plume
*
SIGZINIT001  31.1  (initial sigma-z = H/2.15 = 66.8/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   66.8
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
*
*               NUCNAM  CORINV (Bq)
*
RDCORINV001     Co-58    3.04E+16
```

145	RDCORINV002	Co-60	2.32E+16
146	RDCORINV003	Kr-85	3.84E+16
147	RDCORINV004	Kr-85m	8.48E+17
148	RDCORINV005	Kr-87	1.63E+18
149	RDCORINV006	Kr-88	2.29E+18
150	RDCORINV007	Rb-86	8.31E+15
151	RDCORINV008	Sr-89	3.08E+18
152	RDCORINV009	Sr-90	3.05E+17
153	RDCORINV010	Sr-91	3.87E+18
154	RDCORINV011	Sr-92	4.19E+18
155	RDCORINV012	Y-90	3.18E+17
156	RDCORINV013	Y-91	3.98E+18
157	RDCORINV014	Y-92	4.19E+18
158	RDCORINV015	Y-93	4.85E+18
159	RDCORINV016	Zr-95	5.38E+18
160	RDCORINV017	Zr-97	5.41E+18
161	RDCORINV018	Nb-95	5.45E+18
162	RDCORINV019	Mo-99	6.11E+18
163	RDCORINV020	Tc-99m	5.34E+18
164	RDCORINV021	Ru-103	4.89E+18
165	RDCORINV022	Ru-105	3.36E+18
166	RDCORINV023	Ru-106	1.71E+18
167	RDCORINV024	Rh-105	3.09E+18
168	RDCORINV025	Sb-127	3.47E+17
169	RDCORINV026	Sb-129	1.04E+18
170	RDCORINV027	Te-127	3.43E+17
171	RDCORINV028	Te-127m	4.50E+16
172	RDCORINV029	Te-129	1.02E+18
173	RDCORINV030	Te-129m	1.50E+17
174	RDCORINV031	Te-131m	4.64E+17
175	RDCORINV032	Te-132	4.57E+18

```
RDCORINV033     I-131    3.20E+18
RDCORINV034     I-132    4.64E+18
RDCORINV035     I-133    6.56E+18
RDCORINV036     I-134    7.19E+18
RDCORINV037     I-135    6.11E+18
RDCORINV038     Xe-133   6.28E+18
RDCORINV039     Xe-135   1.67E+18
RDCORINV040     Cs-134   7.19E+17
RDCORINV041     Cs-136   2.10E+17
RDCORINV042     Cs-137   4.15E+17
RDCORINV043     Ba-139   5.83E+18
RDCORINV044     Ba-140   5.62E+18
RDCORINV045     La-140   6.04E+18
RDCORINV046     La-141   5.34E+18
RDCORINV047     La-142   5.17E+18
RDCORINV048     Ce-141   5.31E+18
RDCORINV049     Ce-143   4.96E+18
RDCORINV050     Ce-144   4.19E+18
RDCORINV051     Pr-143   4.78E+18
RDCORINV052     Nd-147   2.13E+18
RDCORINV053     Np-239   6.56E+19
RDCORINV054     Pu-238   1.44E+16
RDCORINV055     Pu-239   1.22E+15
RDCORINV056     Pu-240   1.83E+15
RDCORINV057     Pu-241   4.12E+17
RDCORINV058     Am-241   4.92E+14
RDCORINV059     Cm-242   1.23E+17
RDCORINV060     Cm-244   1.33E+16
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*
```

```
  204  RDCORSCA001   1.0
       *
  205  RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
       *
       * RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
       *
       *  ISOTOPE GROUPS:
       *
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
  206  RDRELFRC001 9.3E-05 3.9E-06 1.6E-06 1.2E-06 3.7E-08 2.4E-07 2.1E-09 1.8E-08
1.1E-07
       *

*******************************************************************************
       * OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
       *
       * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
       *
  207  OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
       *
  208  OCIDEBUG001  0
       *
       * NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
       *
       *OCNUCOUT001  Cs-137
       *
       *              NUM0
  209  TYPE0NUMBER      0
       *
       *              INDREL   INDRAD
       *TYPE0OUT001      1        9
       *TYPE0OUT002      1       10         CCDF
```

```
*****************************************************************************
      * METEOROLOGICAL SAMPLING DATA BLOCK
      *
      * METEOROLOGICAL SAMPLING OPTION CODE:
      *
      * METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
      *          2, WEATHER CATEGORY BIN SAMPLING,
      *          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
      *          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
      *          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
      *
  210 M1METCOD001  2
      *
      * LAST SPATIAL INTERVAL FOR MEASURED WEATHER
      *
  211 M2LIMSPA001  15
      *
      * BOUNDARY WEATHER MIXING LAYER HEIGHT
      *
  212 M2BNDMXH001  1000.  (METERS)
      *
      * BOUNDARY WEATHER STABILITY CLASS INDEX
      *
  213 M2IBDSTB001  4      (D-STABILITY)
      *
      * BOUNDARY WEATHER RAIN RATE
      *
  214 M2BNDRAN001  0.     (MM/HR)
      *
      * BOUNDARY WEATHER WIND SPEED
      *
```

```
215  M2BNDWND001  5.     (M/S)
     *
     * NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
     *
216  M4NRNINT001  6
     *
     * ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
     *
     * NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
     *       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
     *
     *             2.0    4.0      7     10.0     20.0   40.0   MILES
     *
217  M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
     *
     * NUMBER OF RAIN INTENSITIY BREAKPOINTS
     *
218  M4NRINTN001   3
     *
     * RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
     *
219  M4RNRATE001   2.  4.  6.
     *
     * NUMBER OF SAMPLES PER BIN
     *
220  M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
     *
     * INITIAL SEED FOR RANDOM NUMBER GENERATOR
     *
221  M4IRSEED001   79
     .
```

```
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  449
NUMBER OF BLANK OR COMMENT RECORDS READ         =  227
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =  221
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =  221
*******************************************************************************
****************



Decay Chain #  Ba-139

Decay Chain #  Ba-140   La-140
Fraction of Ba-140  going to La-140  in this chain = 1.000000

Decay Chain #  Ce-143   Pr-143
Fraction of Ce-143  going to Pr-143  in this chain = 1.000000

Decay Chain #  Ce-144

Decay Chain #  Cm-242   Pu-238
Fraction of Cm-242  going to Pu-238  in this chain = 1.000000

Decay Chain #  Cm-244   Pu-240
Fraction of Cm-244  going to Pu-240  in this chain = 1.000000

Decay Chain #  Co-58

Decay Chain #  Co-60

Decay Chain #  Cs-134

Decay Chain #  Cs-136

Decay Chain #  Cs-137

Decay Chain #  I-133    Xe-133
Fraction of I-133   going to Xe-133  in this chain = 0.971000

Decay Chain #  I-134

Decay Chain #  I-135    Xe-135
Fraction of I-135   going to Xe-135  in this chain = 0.846000

Decay Chain #  Kr-85m   Kr-85
Fraction of Kr-85m  going to Kr-85   in this chain = 0.211000

Decay Chain #  Kr-87

Decay Chain #  Kr-88

Decay Chain #  La-141   Ce-141
Fraction of La-141  going to Ce-141  in this chain = 1.000000

Decay Chain #  La-142

Decay Chain #  Mo-99    Tc-99m
```

```
Fraction of Mo-99   going to Tc-99m  in this chain = 0.876000

Decay Chain #  Nd-147

Decay Chain #  Np-239   Pu-239
Fraction of Np-239  going to Pu-239  in this chain = 1.000000

Decay Chain #  Pu-241   Am-241
Fraction of Pu-241  going to Am-241  in this chain = 1.000000

Decay Chain #  Rb-86

Decay Chain #  Ru-103

Decay Chain #  Ru-105   Rh-105
Fraction of Ru-105  going to Rh-105  in this chain = 1.000000

Decay Chain #  Ru-106

Decay Chain #  Sb-127   Te-127
Fraction of Sb-127  going to Te-127  in this chain = 0.824000

Decay Chain #  Sb-127   Te-127m  Te-127
Fraction of Sb-127  going to Te-127m in this chain = 0.176000
Fraction of Sb-127  going to Te-127  in this chain = 0.171776
Fraction of Te-127m going to Te-127  in this chain = 0.976000

Decay Chain #  Sb-129   Te-129
Fraction of Sb-129  going to Te-129  in this chain = 0.775000

Decay Chain #  Sb-129   Te-129m  Te-129
Fraction of Sb-129  going to Te-129m in this chain = 0.225000
Fraction of Sb-129  going to Te-129  in this chain = 0.146250
Fraction of Te-129m going to Te-129  in this chain = 0.650000

Decay Chain #  Sr-89

Decay Chain #  Sr-90    Y-90
Fraction of Sr-90   going to Y-90    in this chain = 1.000000

Decay Chain #  Sr-91    Y-91
Fraction of Sr-91   going to Y-91    in this chain = 0.422000

Decay Chain #  Sr-92    Y-92
Fraction of Sr-92   going to Y-92    in this chain = 1.000000

Decay Chain #  Te-131m  I-131
Fraction of Te-131m going to I-131   in this chain = 0.778000

Decay Chain #  Te-132   I-132
Fraction of Te-132  going to I-132   in this chain = 1.000000

Decay Chain #  Y-93

Decay Chain #  Zr-95    Nb-95
Fraction of Zr-95   going to Nb-95   in this chain = 0.993000

Decay Chain #  Zr-97


RELEASED INVENTORY OF ALL PLUMES
Co-58      7.26E+09
Co-60      5.57E+09
```

Kr-85	3.57E+12
Kr-85m	1.23E+13
Kr-87	2.19E+11
Kr-88	1.14E+13
Rb-86	1.31E+10
Sr-89	1.13E+11
Sr-90	1.13E+10
Sr-91	5.97E+10
Sr-92	7.20E+09
Y-90	1.96E+09
Y-91	8.55E+09
Y-92	2.56E+10
Y-93	4.47E+09
Zr-95	1.12E+10
Zr-97	6.94E+09
Nb-95	1.14E+10
Mo-99	1.29E+12
Tc-99m	1.21E+12
Ru-103	1.16E+12
Ru-105	1.24E+11
Ru-106	4.10E+11
Rh-105	6.60E+11
Sb-127	3.81E+11
Sb-129	1.82E+11
Te-127	3.92E+11
Te-127m	5.41E+10
Te-129	3.09E+11
Te-129m	1.79E+11
Te-131m	4.22E+11
Te-132	4.93E+12
I-131	1.20E+13
I-132	5.41E+12
I-133	1.72E+13
I-134	2.12E+09
I-135	6.77E+12
Xe-133	5.48E+14
Xe-135	6.85E+13
Cs-134	1.15E+12
Cs-136	3.27E+11
Cs-137	6.64E+11
Ba-139	1.54E+09
Ba-140	6.02E+11
La-140	1.24E+11
La-141	1.35E+09
La-142	4.93E+07
Ce-141	9.46E+10
Ce-143	6.94E+10
Ce-144	7.53E+10
Pr-143	1.18E+10
Nd-147	4.33E+09
Np-239	1.02E+12
Pu-238	2.59E+08
Pu-239	2.20E+07
Pu-240	3.29E+07
Pu-241	7.42E+09
Am-241	1.05E+06
Cm-242	2.58E+08
Cm-244	2.79E+07

READING FROM A WEATHER FILE WITH THE FOLLOWING HEADER:
INDIAN POINT ENERGY CENTER METEORLOGICAL DATAFILE
Input file for the MACCS2 model using the year 2002
METEOROLOGICAL DATA FILE CONTAINS 398 HOURS OF OBSERVED RAIN DATA.

```
            ACCUMULATED RAIN MEASUREMENTS TOTALED  29.72 INCHES FOR THE YEAR.
            CONSTANT LID HEIGHTS (M) FOR 4 SEASONS =    1100   1600   1300   1100
            NON-ZERO WINDSPEEDS LESS THAN 0.5 M/S ARE SET TO 0.5 M/S
NUMTRI=         149


                                  * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND, 1 (0-1), 2 (1-2), 3
(2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                        WIND DIRECTION
  METBIN    1     2     3     4     5     6     7     8     9    10    11    12
13    14    15    16  TOTAL   PER CENT

 1 B   3  0.301 0.016 0.022 0.065 0.048 0.065 0.108 0.086 0.086 0.011 0.000 0.000
0.000 0.000 0.022 0.172  186     2.1233
 2 B   4  0.065 0.012 0.035 0.029 0.018 0.176 0.194 0.041 0.241 0.100 0.000 0.000
0.000 0.000 0.000 0.088  170     1.9406
 3 D   1  0.118 0.147 0.044 0.029 0.022 0.007 0.022 0.015 0.044 0.037 0.029 0.044
0.103 0.088 0.103 0.147  136     1.5525
 4 D   2  0.203 0.098 0.057 0.051 0.061 0.049 0.062 0.062 0.086 0.088 0.051 0.022
0.022 0.009 0.017 0.061 1381    15.7648
 5 D   3  0.164 0.055 0.025 0.036 0.062 0.085 0.105 0.086 0.175 0.137 0.020 0.006
0.001 0.001 0.000 0.042 1718    19.6119
 6 D   4  0.134 0.036 0.008 0.015 0.034 0.090 0.155 0.071 0.208 0.224 0.002 0.000
0.000 0.000 0.000 0.023 1195    13.6416
 7 D   5  0.135 0.041 0.041 0.000 0.068 0.095 0.162 0.041 0.297 0.122 0.000 0.000
0.000 0.000 0.000 0.000   74     0.8447
 9 E   1  0.113 0.075 0.058 0.042 0.048 0.023 0.043 0.051 0.100 0.090 0.065 0.045
0.045 0.061 0.052 0.090  691     7.8881
10 E   2  0.180 0.117 0.051 0.048 0.029 0.023 0.010 0.007 0.023 0.194 0.125 0.049
0.022 0.019 0.024 0.081 1046    11.9406
11 E   3  0.335 0.067 0.011 0.000 0.004 0.007 0.007 0.004 0.025 0.303 0.134 0.011
0.004 0.000 0.000 0.092  284     3.2420
12 E   4  0.441 0.000 0.000 0.000 0.000 0.029 0.000 0.000 0.029 0.353 0.059 0.000
0.000 0.000 0.000 0.088   34     0.3881
13 F   1  0.034 0.046 0.034 0.017 0.011 0.052 0.046 0.103 0.270 0.155 0.052 0.080
0.017 0.029 0.023 0.029  174     1.9863
14 F   2  0.010 0.015 0.010 0.015 0.005 0.000 0.005 0.010 0.085 0.480 0.235 0.045
0.060 0.010 0.015 0.000  200     2.2831
15 F   3  0.000 0.000 0.000 0.000 0.015 0.000 0.000 0.000 0.000 0.559 0.426 0.000
0.000 0.000 0.000 0.000   68     0.7763
16 F   4  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.600 0.400 0.000
0.000 0.000 0.000 0.000   10     0.1142
17 R1  3  0.087 0.034 0.027 0.023 0.010 0.010 0.023 0.050 0.128 0.309 0.094 0.030
0.020 0.034 0.037 0.084  298     3.4018
18 R1  6  0.078 0.020 0.020 0.020 0.000 0.000 0.020 0.059 0.020 0.098 0.176 0.137
0.098 0.020 0.078 0.157   51     0.5822
19 R1 11  0.115 0.031 0.010 0.000 0.021 0.010 0.000 0.021 0.115 0.312 0.063 0.052
0.031 0.052 0.052 0.115   96     1.0959
20 R1 16  0.067 0.093 0.027 0.000 0.000 0.013 0.013 0.013 0.133 0.280 0.093 0.040
0.053 0.040 0.053 0.080   75     0.8562
21 R1 32  0.175 0.043 0.033 0.014 0.000 0.009 0.014 0.014 0.128 0.261 0.052 0.043
0.038 0.024 0.043 0.109  211     2.4087
```

```
22 R1 65  0.190 0.084 0.022 0.011 0.022 0.017 0.014 0.020 0.095 0.187 0.073 0.036
0.031 0.017 0.022 0.159  358     4.0868
23 R2  3  0.069 0.086 0.017 0.017 0.000 0.000 0.034 0.034 0.121 0.466 0.000 0.034
0.017 0.017 0.017 0.069   58     0.6621
24 R2  6  0.200 0.000 0.000 0.200 0.200 0.000 0.000 0.000 0.000 0.200 0.000 0.000
0.000 0.000 0.000 0.200    5     0.0571
25 R2 11  0.000 0.000 0.286 0.000 0.000 0.000 0.000 0.000 0.286 0.143 0.000 0.000
0.000 0.143 0.143 0.000    7     0.0799
26 R2 16  0.100 0.100 0.000 0.000 0.000 0.000 0.000 0.000 0.100 0.300 0.200 0.100
0.100 0.000 0.000 0.000   10     0.1142
27 R2 32  0.200 0.100 0.100 0.000 0.000 0.000 0.000 0.100 0.050 0.150 0.000 0.050
0.100 0.000 0.000 0.150   20     0.2283
28 R2 65  0.070 0.023 0.163 0.023 0.000 0.023 0.000 0.023 0.116 0.302 0.093 0.047
0.023 0.093 0.000 0.000   43     0.4909
29 R3  3  0.000 0.130 0.043 0.087 0.000 0.000 0.000 0.000 0.043 0.478 0.130 0.000
0.000 0.000 0.000 0.087   23     0.2626
30 R3  6  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 1.000 0.000    1     0.0114
31 R3 11  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.500 0.000 0.500    2     0.0228
32 R3 16  0.250 0.250 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.250 0.000 0.000
0.250 0.000 0.000 0.000    4     0.0457
33 R3 32  0.125 0.125 0.125 0.000 0.000 0.000 0.000 0.000 0.000 0.125 0.000 0.000
0.250 0.000 0.000 0.250    8     0.0913
34 R3 65  0.105 0.158 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.368 0.105 0.000
0.053 0.105 0.000 0.105   19     0.2169
35 R4  3  0.097 0.000 0.032 0.032 0.000 0.000 0.032 0.032 0.097 0.355 0.097 0.032
0.032 0.065 0.032 0.065   31     0.3539
36 R4  6  0.500 0.000 0.000 0.500 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000    2     0.0228
37 R4 11  0.167 0.000 0.000 0.000 0.000 0.000 0.167 0.083 0.083 0.167 0.083 0.000
0.000 0.083 0.000 0.167   12     0.1370
38 R4 16  0.125 0.000 0.000 0.125 0.125 0.000 0.000 0.000 0.250 0.000 0.125 0.000
0.000 0.000 0.000 0.250    8     0.0913
39 R4 32  0.261 0.087 0.174 0.043 0.000 0.000 0.000 0.043 0.174 0.043 0.000 0.000
0.000 0.000 0.000 0.174   23     0.2626
40 R4 65  0.464 0.250 0.036 0.000 0.000 0.000 0.000 0.000 0.071 0.107 0.000 0.000
0.000 0.000 0.000 0.071   28     0.3196
41 ALL    0.159 0.067 0.034 0.032 0.038 0.050 0.068 0.051 0.122 0.176 0.059 0.024
0.019 0.016 0.018 0.067 8760
```

```
                              * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND (M/S), 1 (0-1), 2 (1-2),
3 (2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                WIND DIRECTION
  METBIN    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15
 16 TOTAL   PER CENT

 1 B   3    56    3    4   12    9   12   20   16   16    2    0    0    0    0    4
  32  186     2.1233
 2 B   4    11    2    6    5    3   30   33    7   41   17    0    0    0    0    0
  15  170     1.9406
 3 D   1    16   20    6    4    3    1    3    2    6    5    4    6   14   12   14
```

```
  20  136     1.5525
 4 D   2   280  136   79   70   84   68   86   85  119  122   70   31   31   12   24
  84 1381    15.7648
 5 D   3   281   94   43   62  107  146  181  147  301  235   35   11    1    1    0
  73 1718    19.6119
 6 D   4   160   43   10   18   41  107  185   85  248  268    2    0    0    0    0
  28 1195    13.6416
 7 D   5    10    3    3    0    5    7   12    3   22    9    0    0    0    0    0
   0   74     0.8447
 8 D   6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
 9 E   1    78   52   40   29   33   16   30   35   69   62   45   31   31   42   36
  62  691     7.8881
10 E   2   188  122   53   50   30   24   10    7   24  203  131   51   23   20   25
  85 1046    11.9406
11 E   3    95   19    3    0    1    2    2    1    7   86   38    3    1    0    0
  26  284     3.2420
12 E   4    15    0    0    0    0    1    0    0    1   12    2    0    0    0    0
   3   34     0.3881
13 F   1     6    8    6    3    2    9    8   18   47   27    9   14    3    5    4
   5  174     1.9863
14 F   2     2    3    2    3    1    0    1    2   17   96   47    9   12    2    3
   0  200     2.2831
15 F   3     0    0    0    0    1    0    0    0    0   38   29    0    0    0    0
   0   68     0.7763
16 F   4     0    0    0    0    0    0    0    0    0    6    4    0    0    0    0
   0   10     0.1142
17 R1  3    26   10    8    7    3    3    7   15   38   92   28    9    6   10   11
  25  298     3.4018
18 R1  6     4    1    1    1    0    0    1    3    1    5    9    7    5    1    4
   8   51     0.5822
19 R1 11    11    3    1    0    2    1    0    2   11   30    6    5    3    5    5
  11   96     1.0959
20 R1 16     5    7    2    0    0    1    1    1   10   21    7    3    4    3    4
   6   75     0.8562
21 R1 32    37    9    7    3    0    2    3    3   27   55   11    9    8    5    9
  23  211     2.4087
22 R1 65    68   30    8    4    8    6    5    7   34   67   26   13   11    6    8
  57  358     4.0868
23 R2  3     4    5    1    1    0    0    2    2    7   27    0    2    1    1    1
   4   58     0.6621
24 R2  6     1    0    0    1    1    0    0    0    0    1    0    0    0    0    0
   1    5     0.0571
25 R2 11     0    0    2    0    0    0    0    0    2    1    0    0    0    1    1
   0    7     0.0799
26 R2 16     1    1    0    0    0    0    0    0    1    3    2    1    1    0    0
   0   10     0.1142
27 R2 32     4    2    2    0    0    0    0    2    1    3    0    1    2    0    0
   3   20     0.2283
28 R2 65     3    1    7    1    0    1    0    1    5   13    4    2    1    4    0
   0   43     0.4909
29 R3  3     0    3    1    2    0    0    0    0    1   11    3    0    0    0    0
   2   23     0.2626
30 R3  6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    1
   0    1     0.0114
31 R3 11     0    0    0    0    0    0    0    0    0    0    0    0    0    1    0
   1    2     0.0228
32 R3 16     1    1    0    0    0    0    0    0    0    1    0    0    1    0    0
   0    4     0.0457
33 R3 32     1    1    1    0    0    0    0    0    0    1    0    0    2    0    0
   2    8     0.0913
34 R3 65     2    3    0    0    0    0    0    0    0    7    2    0    1    2    0
   2   19     0.2169
```

```
35 R4  3     3    0    1    1    0    0    1    1    3   11    3    1    1    2    1
   2   31     0.3539
36 R4  6     1    0    0    1    0    0    0    0    0    0    0    0    0    0    0
   0    2     0.0228
37 R4 11     2    0    0    0    0    0    2    1    1    2    1    0    0    1    0
   2   12     0.1370
38 R4 16     1    0    0    1    1    0    0    0    2    0    1    0    0    0    0
   2    8     0.0913
39 R4 32     6    2    4    1    0    0    0    1    4    1    0    0    0    0    0
   4   23     0.2626
40 R4 65    13    7    1    0    0    0    0    0    2    3    0    0    0    0    0
   2   28     0.3196


              * * * * SUMMARIES * * * *

   R      194   86   47   24   15   14   22   39  150  355  103   53   47   42   45
157 1393   15.9018
   B       67    5   10   17   12   42   53   23   57   19    0    0    0    0    4
 47  356    4.0639
   D      747  296  141  154  240  329  467  322  696  639  111   48   46   25   38
205 4504   51.4155
   E      376  193   96   79   64   43   42   43  101  363  216   85   55   62   61
176 2055   23.4589
   F        8   11    8    6    4    9    9   20   64  167   89   23   15    7    7
  5  452    5.1598
      1   100   80   52   36   38   27   44   58  122   94   58   51   48   59   54
 87 1008   11.5068
      2   476  262  137  128  119   93  100   98  160  421  248   91   66   34   55
173 2661   30.3767
      3   426  115   47   69  114  158  197  157  324  361  102   14    2    1    1
127 2215   25.2854
      4   185   45   15   23   44  136  217   91  289  303    8    0    0    0    0
 46 1402   16.0046
      5    11    3    4    0    5    9   13    4   23    9    0    0    0    0    0
  0   81    0.9247
      6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
  0    0    0.0000

                * * * * * BIN WINDROSE SUMMARY * * * * *

  BIN                            DIRECTION
                                    TOTAL
          1      2      3      4      5      6      7      8      9     10     11
 12     13     14     15     16
    1  0.301  0.016  0.022  0.065  0.048  0.065  0.108  0.086  0.086  0.011  0.000
0.000  0.000  0.000  0.022  0.172  1.000000
    2  0.065  0.012  0.035  0.029  0.018  0.176  0.194  0.041  0.241  0.100  0.000
0.000  0.000  0.000  0.000  0.088  1.000000
    3  0.118  0.147  0.044  0.029  0.022  0.007  0.022  0.015  0.044  0.037  0.029
0.044  0.103  0.088  0.103  0.147  1.000000
    4  0.203  0.098  0.057  0.051  0.061  0.049  0.062  0.062  0.086  0.088  0.051
0.022  0.022  0.009  0.017  0.061  1.000000
    5  0.164  0.055  0.025  0.036  0.062  0.085  0.105  0.086  0.175  0.137  0.020
0.006  0.001  0.001  0.000  0.042  1.000000
    6  0.134  0.036  0.008  0.015  0.034  0.090  0.155  0.071  0.208  0.224  0.002
0.000  0.000  0.000  0.000  0.023  1.000000
    7  0.135  0.041  0.041  0.000  0.068  0.095  0.162  0.041  0.297  0.122  0.000
0.000  0.000  0.000  0.000  0.000  1.000000
    8  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000000
    9  0.113  0.075  0.058  0.042  0.048  0.023  0.043  0.051  0.100  0.090  0.065
0.045  0.045  0.061  0.052  0.090  1.000000
```

```
   10  0.180  0.117  0.051  0.048  0.029  0.023  0.010  0.007  0.023  0.194  0.125
0.049  0.022  0.019  0.024  0.081  1.000000
   11  0.335  0.067  0.011  0.000  0.004  0.007  0.007  0.004  0.025  0.303  0.134
0.011  0.004  0.000  0.000  0.092  1.000000
   12  0.441  0.000  0.000  0.000  0.000  0.029  0.000  0.000  0.029  0.353  0.059
0.000  0.000  0.000  0.000  0.088  1.000000
   13  0.034  0.046  0.034  0.017  0.011  0.052  0.046  0.103  0.270  0.155  0.052
0.080  0.017  0.029  0.023  0.029  1.000000
   14  0.010  0.015  0.010  0.015  0.005  0.000  0.005  0.010  0.085  0.480  0.235
0.045  0.060  0.010  0.015  0.000  1.000000
   15  0.000  0.000  0.000  0.000  0.015  0.000  0.000  0.000  0.000  0.559  0.426
0.000  0.000  0.000  0.000  0.000  1.000000
   16  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.600  0.400
0.000  0.000  0.000  0.000  0.000  1.000000
   17  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   18  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   19  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   20  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   21  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   22  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   23  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   24  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   25  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   26  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   27  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   28  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   29  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   30  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   31  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   32  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   33  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   34  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   35  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   36  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   37  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   38  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   39  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   40  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   41  0.159  0.067  0.034  0.032  0.038  0.050  0.068  0.051  0.122  0.176  0.059
```

```
0.024  0.019  0.016  0.018  0.067  1.000000


******** BEGINNING OF CHANGE CASE   1 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  2 OF 8

       *

  222  RDATNAM2001 'EARLY HIGH'

********   RECORD NUMBER   222 REPLACES RECORD NUMBER   123   ********
       *

  223  RDOALARM001   1.36E+04

********   RECORD NUMBER   223 REPLACES RECORD NUMBER   124   ********
  224  RDNUMREL001   1

********   RECORD NUMBER   224 REPLACES RECORD NUMBER   125   ********
  225  RDMAXRIS001   1

********   RECORD NUMBER   225 REPLACES RECORD NUMBER   126   ********
  226  RDREFTIM001   0.0

********   RECORD NUMBER   226 REPLACES RECORD NUMBER   127   ********
  227  RDPLHEAT001   1.08E+06

********   RECORD NUMBER   227 REPLACES RECORD NUMBER   128   ********
  228  RDPLHITE001   30.

********   RECORD NUMBER   228 REPLACES RECORD NUMBER   129   ********
  229  RDPLUDUR001   8.24E+04

********   RECORD NUMBER   229 REPLACES RECORD NUMBER   130   ********
  230  RDPDELAY001   1.32E+04

********   RECORD NUMBER   230 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  231  RDRELFRC001 7.0E-01 2.4E-01 2.3E-01 2.3E-01 2.5E-02 9.1E-02 8.0E-04 4.8E-03
4.6E-02
********   RECORD NUMBER   231 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   1 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   1
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      2.76E+15
Co-60      2.11E+15
Kr-85      2.69E+16
```

Kr-85m	3.37E+17
Kr-87	1.55E+17
Kr-88	6.55E+17
Rb-86	1.90E+15
Sr-89	7.68E+16
Sr-90	7.62E+15
Sr-91	7.40E+16
Sr-92	4.10E+16
Y-90	5.41E+14
Y-91	3.24E+15
Y-92	3.46E+16
Y-93	3.02E+15
Zr-95	4.30E+15
Zr-97	3.72E+15
Nb-95	4.36E+15
Mo-99	5.35E+17
Tc-99m	4.83E+17
Ru-103	4.44E+17
Ru-105	1.72E+17
Ru-106	1.56E+17
Rh-105	2.78E+17
Sb-127	7.76E+16
Sb-129	1.33E+17
Te-127	7.79E+16
Te-127m	1.04E+16
Te-129	1.59E+17
Te-129m	3.45E+16
Te-131m	9.81E+16
Te-132	1.02E+18
I-131	7.59E+17
I-132	1.06E+18
I-133	1.39E+18
I-134	9.50E+16
I-135	9.98E+17
Xe-133	4.34E+18
Xe-135	1.13E+18
Cs-134	1.65E+17
Cs-136	4.79E+16
Cs-137	9.54E+16
Ba-139	4.24E+16
Ba-140	2.56E+17
La-140	2.03E+16
La-141	2.24E+15
La-142	7.95E+14
Ce-141	2.54E+16
Ce-143	2.20E+16
Ce-144	2.01E+16
Pr-143	3.97E+15
Nd-147	1.69E+15
Np-239	3.01E+17
Pu-238	6.91E+13
Pu-239	5.86E+12
Pu-240	8.78E+12
Pu-241	1.98E+15
Am-241	3.95E+11
Cm-242	9.83E+13
Cm-244	1.06E+13

******** BEGINNING OF CHANGE CASE 2 USER INPUT ********
********** RELEASE DATA BLOCK **********

* SOURCE TERM NUMBER 3 OF 8

```
       *

  232  RDATNAM2001 'EARLY MEDIUM'

********   RECORD NUMBER   232 REPLACES RECORD NUMBER   123   ********
       *

  233  RDOALARM001   1.00E+04

********   RECORD NUMBER   233 REPLACES RECORD NUMBER   124   ********
  234  RDNUMREL001   1

********   RECORD NUMBER   234 REPLACES RECORD NUMBER   125   ********
  235  RDMAXRIS001   1

********   RECORD NUMBER   235 REPLACES RECORD NUMBER   126   ********
  236  RDREFTIM001   0.0

********   RECORD NUMBER   236 REPLACES RECORD NUMBER   127   ********
  237  RDPLHEAT001   1.33E+06

********   RECORD NUMBER   237 REPLACES RECORD NUMBER   128   ********
  238  RDPLHITE001   30.

********   RECORD NUMBER   238 REPLACES RECORD NUMBER   129   ********
  239  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   239 REPLACES RECORD NUMBER   130   ********
  240  RDPDELAY001   1.25E+04

********   RECORD NUMBER   240 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  241  RDRELFRC001 9.9E-01 2.0E-02 1.8E-02 2.7E-02 8.3E-04 2.0E-02 4.9E-05 3.3E-04
1.3E-02
********   RECORD NUMBER   241 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   2 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   2
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      6.07E+14
Co-60      4.64E+14
Kr-85      3.80E+16
Kr-85m     4.91E+17
Kr-87      2.43E+17
Kr-88      9.71E+17
Rb-86      1.49E+14
Sr-89      2.55E+15
Sr-90      2.53E+14
Sr-91      2.49E+15
```

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Sr-92      1.43E+15
Y-90       2.43E+13
Y-91       1.97E+14
Y-92       1.19E+15
Y-93       1.87E+14
Zr-95      2.63E+14
Zr-97      2.30E+14
Nb-95      2.67E+14
Mo-99      1.18E+17
Tc-99m     1.06E+17
Ru-103     9.76E+16
Ru-105     3.91E+16
Ru-106     3.42E+16
Rh-105     6.11E+16
Sb-127     9.13E+15
Sb-129     1.61E+16
Te-127     9.16E+15
Te-127m    1.22E+15
Te-129     1.91E+16
Te-129m    4.05E+15
Te-131m    1.16E+16
Te-132     1.20E+17
I-131      6.33E+16
I-132      1.11E+17
I-133      1.17E+17
I-134      9.24E+15
I-135      8.49E+16
Xe-133     6.10E+18
Xe-135     1.29E+18
Cs-134     1.29E+16
Cs-136     3.75E+15
Cs-137     7.47E+15
Ba-139     1.32E+16
Ba-140     7.25E+16
La-140     4.50E+15
La-141     1.42E+14
La-142     5.32E+13
Ce-141     1.75E+15
Ce-143     1.52E+15
Ce-144     1.38E+15
Pr-143     2.44E+14
Nd-147     1.03E+14
Np-239     2.07E+16
Pu-238     4.75E+12
Pu-239     4.03E+11
Pu-240     6.04E+11
Pu-241     1.36E+14
Am-241     2.42E+10
Cm-242     6.02E+12
Cm-244     6.52E+11


******** BEGINNING OF CHANGE CASE   3 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  4 OF 8

       *

  242  RDATNAM2001 'EARLY LOW'

********   RECORD NUMBER   242 REPLACES RECORD NUMBER   123   ********
       *
```

```
  243  RDOALARM001   1.09E+04

********   RECORD NUMBER   243 REPLACES RECORD NUMBER   124   ********
  244  RDNUMREL001   1

********   RECORD NUMBER   244 REPLACES RECORD NUMBER   125   ********
  245  RDMAXRIS001   1

********   RECORD NUMBER   245 REPLACES RECORD NUMBER   126   ********
  246  RDREFTIM001   0.0

********   RECORD NUMBER   246 REPLACES RECORD NUMBER   127   ********
  247  RDPLHEAT001   1.60E+06

********   RECORD NUMBER   247 REPLACES RECORD NUMBER   128   ********
  248  RDPLHITE001   30.

********   RECORD NUMBER   248 REPLACES RECORD NUMBER   129   ********
  249  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   249 REPLACES RECORD NUMBER   130   ********
  250  RDPDELAY001   1.73E+04

********   RECORD NUMBER   250 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  251  RDRELFRC001 7.6E-01 5.9E-03 4.1E-03 3.9E-03 1.0E-04 2.0E-03 4.6E-06 3.3E-05
7.8E-04
********   RECORD NUMBER   251 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   3 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   3
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      6.07E+13
Co-60      4.64E+13
Kr-85      2.92E+16
Kr-85m     3.06E+17
Kr-87      9.02E+16
Kr-88      5.39E+17
Rb-86      3.38E+13
Sr-89      3.07E+14
Sr-90      3.05E+13
Sr-91      2.73E+14
Sr-92      1.23E+14
Y-90       2.94E+12
Y-91       1.86E+13
Y-92       1.41E+14
Y-93       1.60E+13
Zr-95      2.47E+13
Zr-97      2.04E+13
```

```
Nb-95      2.51E+13
Mo-99      1.16E+16
Tc-99m     1.06E+16
Ru-103     9.75E+15
Ru-105     3.17E+15
Ru-106     3.42E+15
Rh-105     6.05E+15
Sb-127     1.31E+15
Sb-129     1.88E+15
Te-127     1.32E+15
Te-127m    1.76E+14
Te-129     2.33E+15
Te-129m    5.85E+14
Te-131m    1.62E+15
Te-132     1.71E+16
I-131      1.86E+16
I-132      1.97E+16
I-133      3.30E+16
I-134      9.49E+14
I-135      2.18E+16
Xe-133     4.65E+18
Xe-135     8.87E+17
Cs-134     2.95E+15
Cs-136     8.52E+14
Cs-137     1.70E+15
Ba-139     4.06E+14
Ba-140     4.34E+15
La-140     3.72E+14
La-141     1.05E+13
La-142     2.74E+12
Ce-141     1.75E+14
Ce-143     1.48E+14
Ce-144     1.38E+14
Pr-143     2.33E+13
Nd-147     9.67E+12
Np-239     2.04E+15
Pu-238     4.75E+11
Pu-239     4.03E+10
Pu-240     6.04E+10
Pu-241     1.36E+13
Am-241     2.28E+09
Cm-242     5.65E+11
Cm-244     6.12E+10


******** BEGINNING OF CHANGE CASE   4 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  5 OF 8

       *

  252  RDATNAM2001 'LATE HIGH'

********   RECORD NUMBER   252 REPLACES RECORD NUMBER   123   ********
       *

  253  RDOALARM001   5.58E+03

********   RECORD NUMBER   253 REPLACES RECORD NUMBER   124   ********
  254  RDNUMREL001   1

********   RECORD NUMBER   254 REPLACES RECORD NUMBER   125   ********
```

```
  255  RDMAXRIS001   1

********   RECORD NUMBER   255 REPLACES RECORD NUMBER   126   ********
  256  RDREFTIM001   0.5

********   RECORD NUMBER   256 REPLACES RECORD NUMBER   127   ********
  257  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   257 REPLACES RECORD NUMBER   128   ********
  258  RDPLHITE001   30.

********   RECORD NUMBER   258 REPLACES RECORD NUMBER   129   ********
  259  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   259 REPLACES RECORD NUMBER   130   ********
  260  RDPDELAY001   7.38E+04

********   RECORD NUMBER   260 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  261  RDRELFRC001 9.9E-01 1.2E-01 2.3E-02 4.8E-03 2.1E-04 3.7E-03 1.3E-05 1.2E-04
9.1E-04
********   RECORD NUMBER   261 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   4 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   4
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.11E+14
Co-60      8.58E+13
Kr-85      3.80E+16
Kr-85m     5.50E+15
Kr-87      3.27E+10
Kr-88      8.14E+14
Rb-86      1.82E+14
Sr-89      6.35E+14
Sr-90      6.40E+13
Sr-91      7.59E+13
Sr-92      2.16E+11
Y-90       2.19E+13
Y-91       5.30E+13
Y-92       4.34E+12
Y-93       6.78E+12
Zr-95      6.89E+13
Zr-97      1.85E+13
Nb-95      7.08E+13
Mo-99      1.61E+16
Tc-99m     1.54E+16
Ru-103     1.77E+16
Ru-105     7.78E+13
Ru-106     6.31E+15
Rh-105     6.98E+15
```

```
Sb-127     1.31E+15
Sb-129     2.71E+13
Te-127     1.40E+15
Te-127m    2.16E+14
Te-129     4.88E+14
Te-129m    7.06E+14
Te-131m    1.05E+15
Te-132     1.64E+16
I-131      3.42E+17
I-132      1.70E+16
I-133      2.67E+17
I-134      5.97E+06
I-135      2.43E+16
Xe-133     5.27E+18
Xe-135     2.23E+17
Cs-134     1.65E+16
Cs-136     4.50E+15
Cs-137     9.54E+15
Ba-139     4.23E+08
Ba-140     4.75E+15
La-140     2.15E+15
La-141     2.25E+11
La-142     3.03E+07
Ce-141     6.19E+14
Ce-143     3.01E+14
Ce-144     5.01E+14
Pr-143     8.67E+13
Nd-147     2.54E+13
Np-239     5.28E+15
Pu-238     1.73E+12
Pu-239     1.47E+11
Pu-240     2.20E+11
Pu-241     4.94E+13
Am-241     6.69E+09
Cm-242     1.59E+12
Cm-244     1.73E+11


******** BEGINNING OF CHANGE CASE   5 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  6 OF 8

       *

  262  RDATNAM2001 'LATE MEDIUM'

********   RECORD NUMBER   262 REPLACES RECORD NUMBER   123   ********
       *

  263  RDOALARM001   8.94E+03

********   RECORD NUMBER   263 REPLACES RECORD NUMBER   124   ********
  264  RDNUMREL001   1

********   RECORD NUMBER   264 REPLACES RECORD NUMBER   125   ********
  265  RDMAXRIS001   1

********   RECORD NUMBER   265 REPLACES RECORD NUMBER   126   ********
  266  RDREFTIM001   0.5

********   RECORD NUMBER   266 REPLACES RECORD NUMBER   127   ********
  267  RDPLHEAT001   9.20E+05
```

```
********   RECORD NUMBER   267 REPLACES RECORD NUMBER   128   ********
  268  RDPLHITE001   30.

********   RECORD NUMBER   268 REPLACES RECORD NUMBER   129   ********
  269  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   269 REPLACES RECORD NUMBER   130   ********
  270  RDPDELAY001   8.04E+04

********   RECORD NUMBER   270 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  271  RDRELFRC001 8.2E-01 1.5E-02 4.3E-03 1.5E-03 8.0E-05 1.4E-03 5.1E-06 4.7E-05
3.5E-04
********   RECORD NUMBER   271 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   5 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   5
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      4.20E+13
Co-60      3.25E+13
Kr-85      3.15E+16
Kr-85m     3.43E+15
Kr-87      9.97E+09
Kr-88      4.31E+14
Rb-86      3.39E+13
Sr-89      2.42E+14
Sr-90      2.44E+13
Sr-91      2.53E+13
Sr-92      5.15E+10
Y-90       8.69E+12
Y-91       2.08E+13
Y-92       1.17E+12
Y-93       2.34E+12
Zr-95      2.70E+13
Zr-97      6.75E+12
Nb-95      2.78E+13
Mo-99      5.96E+15
Tc-99m     5.73E+15
Ru-103     6.68E+15
Ru-105     2.21E+13
Ru-106     2.39E+15
Rh-105     2.55E+15
Sb-127     4.02E+14
Sb-129     6.32E+12
Te-127     4.33E+14
Te-127m    6.76E+13
Te-129     1.50E+14
Te-129m    2.20E+14
Te-131m    3.15E+14
```

```
Te-132     5.06E+15
I-131      4.25E+16
I-132      5.21E+15
I-133      3.13E+16
I-134      1.75E+05
I-135      2.50E+15
Xe-133     4.27E+18
Xe-135     1.09E+17
Cs-134     3.09E+15
Cs-136     8.37E+14
Cs-137     1.78E+15
Ba-139     6.48E+07
Ba-140     1.82E+15
La-140     8.58E+14
La-141     6.39E+10
La-142     5.21E+06
Ce-141     2.42E+14
Ce-143     1.13E+14
Ce-144     1.96E+14
Pr-143     3.43E+13
Nd-147     9.92E+12
Np-239     2.02E+15
Pu-238     6.77E+11
Pu-239     5.76E+10
Pu-240     8.60E+10
Pu-241     1.94E+13
Am-241     2.63E+09
Cm-242     6.23E+11
Cm-244     6.78E+10


******** BEGINNING OF CHANGE CASE   6 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  7 OF 8

       *

  272  RDATNAM2001 'LATE LOW'

********   RECORD NUMBER   272 REPLACES RECORD NUMBER   123   ********
       *

  273  RDOALARM001   2.19E+04

********   RECORD NUMBER   273 REPLACES RECORD NUMBER   124   ********
  274  RDNUMREL001   1

********   RECORD NUMBER   274 REPLACES RECORD NUMBER   125   ********
  275  RDMAXRIS001   1

********   RECORD NUMBER   275 REPLACES RECORD NUMBER   126   ********
  276  RDREFTIM001   0.5

********   RECORD NUMBER   276 REPLACES RECORD NUMBER   127   ********
  277  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   277 REPLACES RECORD NUMBER   128   ********
  278  RDPLHITE001   30.

********   RECORD NUMBER   278 REPLACES RECORD NUMBER   129   ********
  279  RDPLUDUR001   8.64E+04
```

```
********   RECORD NUMBER   279 REPLACES RECORD NUMBER   130   ********
  280  RDPDELAY001   9.90E+04

********   RECORD NUMBER   280 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  281  RDRELFRC001 7.0E-01 1.1E-03 7.9E-04 1.2E-03 8.7E-05 3.5E-06 2.6E-06 2.4E-05
7.4E-05
********   RECORD NUMBER   281 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   6 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   6
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	1.05E+11
Co-60	8.12E+10
Kr-85	2.69E+16
Kr-85m	1.32E+15
Kr-87	5.09E+08
Kr-88	1.04E+14
Rb-86	6.18E+12
Sr-89	2.62E+14
Sr-90	2.65E+13
Sr-91	1.89E+13
Sr-92	1.49E+10
Y-90	9.77E+12
Y-91	1.10E+13
Y-92	4.77E+11
Y-93	8.38E+11
Zr-95	1.37E+13
Zr-97	2.78E+12
Nb-95	1.42E+13
Mo-99	1.41E+13
Tc-99m	1.36E+13
Ru-103	1.66E+13
Ru-105	2.47E+10
Ru-106	5.97E+12
Rh-105	5.76E+12
Sb-127	3.10E+14
Sb-129	2.21E+12
Te-127	3.35E+14
Te-127m	5.41E+13
Te-129	1.17E+14
Te-129m	1.75E+14
Te-131m	2.24E+14
Te-132	3.86E+15
I-131	3.09E+15
I-132	3.98E+15
I-133	1.93E+15
I-134	2.16E+02
I-135	1.07E+14
Xe-133	3.54E+18

```
Xe-135     5.80E+16
Cs-134     5.67E+14
Cs-136     1.52E+14
Cs-137     3.28E+14
Ba-139     1.02E+06
Ba-140     3.80E+14
La-140     2.03E+14
La-141     1.31E+10
La-142     2.60E+05
Ce-141     1.23E+14
Ce-143     5.19E+13
Ce-144     1.00E+14
Pr-143     1.79E+13
Nd-147     4.99E+12
Np-239     9.70E+14
Pu-238     3.46E+11
Pu-239     2.94E+10
Pu-240     4.39E+10
Pu-241     9.89E+12
Am-241     1.35E+09
Cm-242     3.18E+11
Cm-244     3.46E+10


******** BEGINNING OF CHANGE CASE   7 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  8 OF 8

       *

  282  RDATNAM2001 'LATE LOWLOW'

********   RECORD NUMBER   282 REPLACES RECORD NUMBER   123   ********
       *

  283  RDOALARM001   2.56E+04

********   RECORD NUMBER   283 REPLACES RECORD NUMBER   124   ********
  284  RDNUMREL001   1

********   RECORD NUMBER   284 REPLACES RECORD NUMBER   125   ********
  285  RDMAXRIS001   1

********   RECORD NUMBER   285 REPLACES RECORD NUMBER   126   ********
  286  RDREFTIM001   0.5

********   RECORD NUMBER   286 REPLACES RECORD NUMBER   127   ********
  287  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   287 REPLACES RECORD NUMBER   128   ********
  288  RDPLHITE001   30.

********   RECORD NUMBER   288 REPLACES RECORD NUMBER   129   ********
  289  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   289 REPLACES RECORD NUMBER   130   ********
  290  RDPDELAY001   1.13E+05

********   RECORD NUMBER   290 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
```

```
  291  RDRELFRC001 9.1E-01 8.1E-04 7.0E-04 7.6E-04 3.6E-05 2.1E-06 1.1E-06 1.2E-05
3.3E-05
********   RECORD NUMBER   291 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   7 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   7
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	6.27E+10
Co-60	4.87E+10
Kr-85	3.49E+16
Kr-85m	9.37E+14
Kr-87	7.95E+07
Kr-88	5.25E+13
Rb-86	5.44E+12
Sr-89	1.08E+14
Sr-90	1.10E+13
Sr-91	5.88E+12
Sr-92	2.28E+09
Y-90	4.34E+12
Y-91	4.66E+12
Y-92	9.41E+10
Y-93	2.72E+11
Zr-95	5.80E+12
Zr-97	1.00E+12
Nb-95	5.99E+12
Mo-99	8.14E+12
Tc-99m	7.83E+12
Ru-103	9.95E+12
Ru-105	8.07E+09
Ru-106	3.58E+12
Rh-105	3.20E+12
Sb-127	1.90E+14
Sb-129	7.49E+11
Te-127	2.07E+14
Te-127m	3.43E+13
Te-129	7.29E+13
Te-129m	1.11E+14
Te-131m	1.29E+14
Te-132	2.36E+15
I-131	2.24E+15
I-132	2.44E+15
I-133	1.25E+15
I-134	7.35E+00
I-135	5.23E+13
Xe-133	4.50E+18
Xe-135	5.59E+16
Cs-134	5.02E+14
Cs-136	1.34E+14
Cs-137	2.90E+14
Ba-139	6.43E+04
Ba-140	1.68E+14
La-140	9.55E+13

```
La-141     2.79E+09
La-142     1.92E+04
Ce-141     6.13E+13
Ce-143     2.39E+13
Ce-144     5.01E+13
Pr-143     8.22E+12
Nd-147     2.09E+12
Np-239     4.62E+14
Pu-238     1.73E+11
Pu-239     1.47E+10
Pu-240     2.20E+10
Pu-241     4.94E+12
Am-241     5.80E+08
Cm-242     1.34E+11
Cm-244     1.46E+10


USER INPUT IS READ FROM UNIT 25
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE

       *

    1  MIEANAM1001 'EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES'

    2  DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)

       *

       *             ORGNAM         ORGFLG

       *

    3  MIORGDEF001  'A-SKIN'        .TRUE.

    4  MIORGDEF002  'A-RED MARR'    .TRUE.

    5  MIORGDEF003  'A-LUNGS'       .TRUE.

    6  MIORGDEF004  'A-THYROIDH'    .TRUE.

    7  MIORGDEF005  'A-STOMACH'     .TRUE.

    8  MIORGDEF006  'A-LOWER LI'    .FALSE.  (does not contribute to early
fatalities)
    9  MIORGDEF007  'L-EDEWBODY'    .TRUE.

   10  MIORGDEF008  'L-RED MARR'    .TRUE.

   11  MIORGDEF009  'L-BONE SUR'    .TRUE.

   12  MIORGDEF010  'L-BREAST'      .TRUE.

   13  MIORGDEF011  'L-LUNGS'       .TRUE.

   14  MIORGDEF012  'L-THYROID'     .TRUE.
```

```
15  MIORGDEF013  'L-LOWER LI'    .TRUE.
16  MIORGDEF014  'L-BLAD WAL'    .TRUE.
17  MIORGDEF015  'L-LIVER'       .FALSE.
18  MIORGDEF016  'L-THYROIDH'    .TRUE.
    *
    * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
    *
19  MIENDAT2001  .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
    *
    * DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
    *                                2  *  WIND-SHIFT WITH ROTATION
    *                                3  *  WIND-SHIFT WITHOUT ROTATION
    *
20  MIIPLUME001  2
    *
    * NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
    *
21  MINUMFIN001  7    (3, 5 OR 7 ALLOWED)
    *
    * LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
    *
22  MIIPRINT001  0
    *
    * LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
    * BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
    *
    *             RISBIN
    *
23  MIRISCAT001   .FALSE.
    *
    * FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
```

```
      *
   24 MIOVRRID001  .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
*****************************************************************************
      * POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
      *
   25 PDPOPFLG001  FILE
      *
      *PDPOPFLG001  UNIFORM
      *PDIBEGIN001  1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
      *PDPOPDEN001  50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))
*****************************************************************************
      * SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
      *
      * THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
      * ONE FOR EACH TYPE OF ACTIVTY:
      *
      * ACTIVITY TYPE:
      *     1 - EVACUEES WHILE MOVING
      *     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
      *     3 - SHELTERED ACTIVITY
      *
      * CLOUD SHIELDING FACTOR
      *
      *    SITE        GG   PB   SEQ  SUR  ZION
      *    SHELTERING  0.7  0.5  0.65 0.6  0.5
      *
      *            EVACUEES  NORMAL  SHELTER
      *
   26 SECSFACT001      1.     0.75     0.6   *  SURRY SHELTERING VALUE
      *
      * PROTECTION FACTOR FOR INHALATION
```

```
    *
27  SEPROTIN001      1.     0.41      0.33  * VALUES FOR NORMAL ACTIVITY AND
    *                                          SHELTERING SELECTED BY NRC STAFF
    *
    * BREATHING RATE (CUBIC METERS PER SECOND)
    *
28  SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
    *
    * SKIN PROTECTION FACTOR
    *
29  SESKPFAC001  1.0      0.41     0.33    * VALUES FOR NORMAL ACTIVITY AND
    *                                         SHELTERING SELECTED BY NRC STAFF
    *
    * GROUND SHIELDING FACTOR
    *
    *    SITE        GG   PB   SEQ  SUR  ZION
    *    SHELTERING  0.25 0.1  0.2  0.2  0.1
    *
30  SEGSHFAC001      0.5    0.4    0.2   * VALUE FOR NORMAL ACTIVITY SELECTED BY
    *                                        NRC STAFF
    *
    * RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
    *
    *   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
    *   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
    *   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
    *   USED IN CHRONC.
    *
31  SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
    *
    * RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
```

```
     *
32   SERESHAF001   1.82E5    (2.11 DAYS)
*****************************************************************************
     * EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
     *
     * SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
     *
33   EZEANAM2001  'NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE'
     *
     * THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
     * YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
     *
34   EZWTNAME001  'PEOPLE'
     *
     * WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
     *
35   EZWTFRAC001  1.00
     *
     * LAST RING IN THE MOVEMENT ZONE
     *
36   EZLASMOV001     0   (A ZERO TURNS OFF THE EVACUATION MODEL)
     *
     ********************************************************************
     * SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
     *                                         STORED IN /INPSRZ/, /RELOCA/
     *
     * DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
     *
37   SRENDEMP001  604800.   (ONE WEEK)
     *
     * CRITICAL ORGAN FOR RELOCATION DECISIONS
```

```
     *
38   SRCRIORG001 'L-EDEWBODY'
     *
     * HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
39   SRTIMHOT001  43200.    (ONE-HALF DAY)
     *
     * NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
40   SRTIMNRM001  86400.    (ONE DAY)
     *
     * HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
41   SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
     *
     * NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
42   SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
     * EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
     *
     * NUMBER OF EARLY FATALITY EFFECTS
     *
43   EFNUMEFA001   2
     *
     *            ORGNAM       EFFACA   EFFACB   EFFTHR
     *
44   EFATAGRP001 'A-RED MARR'      3.8      5.0    1.5
45   EFATAGRP002 'A-LUNGS'        10.0      7.0    5.0
*******************************************************************************
     * EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
```

```
     *
     * NUMBER OF EARLY INJURY EFFECTS
     *
46   EINUMEIN001  7
     *
     *            EINAME           ORGNAM   EISUSC EITHRE EIFACA EIFACB
     *
47   EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
48   EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
49   EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
50   EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
51   EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
52   EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
53   EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3
*******************************************************************************
     * ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
     *
     * NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
     *
54   LCNUMACA001   7
     *
     * THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
     *
55   LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
     *
     * DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
     *
56   LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
     *
     *            ACNAME     ORGNAM  ACSUSC DOSEFA DOSEFB CFRISK   CIRISK  DDREFA
     *
```

```
 57  LCANCERS001 'LEUKEMIA' 'L-RED MARR'  1.0   1.0   0.0   9.70E-3   0.0     2.0
 58  LCANCERS002 'BONE'     'L-BONE SUR'  1.0   1.0   0.0   9.00E-4   0.0     2.0
 59  LCANCERS003 'BREAST'   'L-BREAST'    1.0   1.0   0.0   5.40E-3   1.7E-2  1.0
 60  LCANCERS004 'LUNG'     'L-LUNGS'     1.0   1.0   0.0   1.55E-2   0.0     2.0
 61  LCANCERS005 'THYROID'  'L-THYROIDH'  1.0   1.0   0.0   7.20E-4   7.2E-3  1.0
 62  LCANCERS006 'GI'       'L-LOWER LI'  1.0   1.0   0.0   3.36E-2   0.0     2.0
 63  LCANCERS007 'OTHER'    'L-EDEWBODY'  1.0   1.0   0.0   2.76E-2   0.0     2.0

*******************************************************************************
     * RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
     * TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
 64  TYPE1NUMBER    4
     *
 65  TYPE1OUT001    'ERL FAT/TOTAL'                1  15   NOCCDF (0 TO 50 MILES)
 66  TYPE1OUT009    'CAN FAT/TOTAL'                1  15   NOCCDF
 67  TYPE1OUT019    'CAN FAT/TOTAL'                1  11   NOCCDF (0 TO 10 MILES)
 68  TYPE1OUT020    'ERL FAT/TOTAL'                1  11          (0 TO 10 MILES)

*******************************************************************************
     * RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
     * FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
 69  TYPE2NUMBER  0
     *
     *            FATALITY RISK THRESHOLD
     *
     *TYPE2OUT001  0.
```

```
*******************************************************************************
      * RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
      * NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   70 TYPE3NUMBER  0
      *
      *               ORGAN NAME   DOSE THRESHOLD (Sv)
      *
      *TYPE3OUT001    'A-RED MARR'        1.5
      *TYPE3OUT002    'A-LUNGS'           5.0
      *TYPE3OUT003    'L-EDEWBODY'        0.05

*******************************************************************************
      * RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
      * 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
      *
      * POSSIBLE TYPES OF EFFECTS ARE:
      *
      *   'ERL FAT/TOTAL'
      *   'ERL INJ/INJURY NAME'
      *   'CAN FAT/CANCER NAME'
      *   'CAN FAT/TOTAL'
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   71 TYPE4NUMBER  3
      *
      *            RADIAL INDEX   TYPE OF EFFECT
      *
   72 TYPE4OUT001       1         'ERL FAT/TOTAL'
```

```
   73  TYPE4OUT002       2         'ERL FAT/TOTAL'
   74  TYPE4OUT003       3         'ERL FAT/TOTAL'

*****************************************************************************
       * RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
       *
       * TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   75  TYPE5NUMBER     1
       *
       *             ORGAN      I1DIS5     I2DIS5
       *
   76  TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)

*****************************************************************************
       * RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
       *
       * CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS
FOLLOWS:
       *
       *  PATHWAY NAME:
       *    'CLD'     - CLOUDSHINE
       *    'GRD'     - GROUNDSHINE
       *    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
       *    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE
CLOUD
       *    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
       *    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
       *    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
       *    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
```

```
     *
  77 TYPE6NUMBER     0
     *
     *             ORGNAM        PATHNM      I1DIS6   I2DIS6
     *
     *TYPE6OUT001  'A-RED MARR'    'TOT ACU'      1       19     (0-50 MILES)
     *TYPE6OUT002  'A-LUNGS'       'TOT ACU'      1       19     (0-50 MILES)
     *TYPE6OUT003  'L-EDEWBODY'    'TOT LIF'      1       26     (0-1000 MILES)

*******************************************************************************
     * RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
     *
     * CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  78 TYPE7NUMBER   0
     *
     *                    NAME           I1DIS7       I2DIS7
     *
     *TYPE7OUT001     'ERL FAT/TOTAL'        1           19       (0-50 MILES)
     *TYPE7OUT002     'CAN FAT/TOTAL'        1           26       (0-1000 MILES)

*******************************************************************************
     * RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
     *
     * POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  79 TYPE8NUMBER   2
     *
     *                NAME       I1DIS8  I2DIS8
```

```
       *
   80  TYPE8OUT001 'ERL FAT/TOTAL'   1       3     NOCCDF
   81  TYPE8OUT002 'CAN FAT/TOTAL'   1      11     NOCCDF  (0-10 MILES)

*******************************************************************************
       * RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/
       *
       * peak dose to a given organ
       *
       *            NUMA
   82  TYPEANUMBER   0
       *
       *              ORGNAM    I1DISA  I2DISA
       *TYPEAOUT001 'L-EDEWBODY'  1       15
       .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  341
NUMBER OF BLANK OR COMMENT RECORDS READ         =  258
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   82
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   82
*******************************************************************************
****************


The list of defined organs is as follows (A- is ACUTE and L- is LIFETIME):
   A-SKIN
   A-RED MARR
   A-LUNGS
   A-THYROIDH
   A-STOMACH
   L-EDEWBODY
   L-RED MARR
   L-BONE SUR
   L-BREAST
   L-LUNGS
   L-THYROID
   L-LOWER LI
   L-BLAD WAL
   L-THYROIDH
Am using a DOSFAC/DOSFAC2/IDCF2 dose factor file
```

```
READING FROM A DOSE CONVERSION FILE WITH THE FOLLOWING HEADER:
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1

NO EVACUATION REQUESTED


USING THE FOLLOWING SITE DATA FILE:

MACCS2 Site Data File for Indian Point Energy Center
SITE FILE
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   7 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   1 WATERSHEDS
  21 ECONOMIC REGIONS
 SPATIAL DISTANCES     KILOMETERS
    0.3219    1.6093    3.2187    4.8280    6.4374    8.0467    9.6561   11.2654
   12.8748   14.4841   16.0935   32.1869   48.2804   64.3739   80.4674
 POPULATION
        6.        0.      271.     2059.     2501.      909.      931.     1223.
     1389.     1503.     1696.    22955.    30654.    39620.    51057.0
       16.        7.      170.     1943.     2912.     2051.     1177.     1388.
     1577.     1798.     1913.    28140.    39917.    56226.    67213.0
       17.      193.      883.     2131.     2964.     3843.     3910.     3059.
     2464.     1998.     1915.    29419.    53692.    62559.    41261.0
       17.      364.     1275.     2132.     2977.     3453.     4507.     5282.
     6140.     6960.     7279.    74856.   119073.   152175.   176338.0
       17.      390.     1218.     2138.     2934.     3792.     4424.     5513.
     5587.     7201.     8076.   118335.   156720.   200581.   208394.0
       17.      409.     1256.     2136.     2970.     3592.     3698.     3857.
     5734.     6783.     7409.   121515.   144267.    54180.    34361.0
       17.      410.     1274.     2138.     2872.     3808.     4537.     5279.
     6284.     7194.     8060.   111946.    87735.   236426.   379990.0
       17.      360.     1268.     1645.      882.      495.       15.     1442.
      948.     1911.     3214.    98326.   481703.  1380249.  1218170.0
       17.      400.      701.      246.      124.      620.     1538.     3253.
     4129.     4455.     5138.   135211.  1164596.  3732339.  3164306.0
       17.      377.      562.      500.     1700.     2882.     3544.     4187.
     4873.     5517.     6159.   202605.   395389.   922649.  1034467.0
       17.      217.      187.     1566.     2274.     2916.     3574.     4188.
     4361.     5358.     6138.   183372.   276902.   197362.   246076.0
        9.        0.      620.     1623.     2197.     2924.     3550.     4014.
     4196.     4255.     4335.    64428.   209197.   109102.    85849.0
        3.        0.      855.     1602.     2267.     2815.     2368.     1787.
     1423.     1775.     2030.    32026.    50974.    61380.    57384.0
        2.        0.      938.     1624.     2245.     1341.     1135.     1419.
     1505.     1756.     2071.    32528.    54577.    57977.    29719.0
        2.       45.      974.     1589.     1933.      972.     1140.     1351.
     1541.     1781.     2093.    32572.    54557.    24046.    22317.0
        3.       50.      809.     1051.     1587.      740.     1204.     1407.
     1620.     1787.     2028.    31660.    32569.    27599.    34374.0
 LAND FRACTION
 0.37 0.00 0.23 0.96 0.99 0.94 0.78 0.87 0.85 0.81 0.82 0.83 0.94 0.94 0.93
 0.92 0.02 0.13 0.91 0.97 0.98 1.00 1.00 0.98 0.99 0.94 0.95 0.99 0.99 0.98
 1.00 0.47 0.69 1.00 0.99 1.00 0.98 0.96 0.95 1.00 0.94 0.91 0.94 0.95 0.96
 1.00 0.89 0.99 1.00 0.99 0.90 0.96 0.95 0.96 0.96 0.97 0.91 0.92 0.95 0.98
 1.00 0.95 0.95 1.00 0.98 0.99 0.94 0.99 0.87 0.99 0.99 0.92 0.97 0.97 0.78
 1.00 1.00 0.98 1.00 0.99 0.93 0.79 0.69 0.89 0.93 0.91 0.97 0.95 0.27 0.12
 1.00 1.00 0.99 1.00 0.96 0.99 0.96 0.95 0.98 0.99 0.99 0.93 0.53 0.48 0.98
 1.00 0.88 0.99 0.77 0.29 0.13 0.00 0.26 0.16 0.30 0.43 0.77 0.70 0.79 0.82
 1.00 0.97 0.55 0.12 0.05 0.21 0.43 0.77 0.85 0.81 0.83 0.84 0.87 0.81 0.59
```

```
 1.00 0.92 0.44 0.31 0.75 0.99 0.99 0.99 1.00 1.00 1.00 0.99 0.99 0.93 0.92
 1.00 0.53 0.18 0.96 1.00 1.00 1.00 0.99 0.89 0.97 0.99 0.98 0.93 0.90 0.94
 0.52 0.00 0.64 1.00 0.97 1.00 0.99 0.95 0.91 0.92 0.94 0.94 0.93 0.97 0.94
 0.19 0.00 0.88 0.99 1.00 1.00 1.00 0.98 0.86 0.95 0.97 0.97 0.98 0.97 0.97
 0.13 0.00 0.96 1.00 1.00 0.99 0.94 0.99 0.91 0.94 0.99 0.98 0.99 0.97 0.95
 0.14 0.14 1.00 0.98 0.99 0.98 0.94 0.94 0.93 0.95 1.00 0.98 0.99 0.99 0.96
 0.20 0.16 0.83 0.57 0.65 0.75 0.99 0.98 0.98 0.95 0.97 0.96 0.96 0.99 0.96
 REGION INDEX
20212020201414141413140606060 6
20212020201414141414141406060 6
20202020202020141414141406030 3
20202020202020202020202001010 4
20202020202020202020202001010 4
20202020202020202020202001011 7
20202020202020202020202001121 7
20202020202021202020202020121 2
20202020211616161616161602151 1
20202016161616161616160202051 0
20201616161616161616161608070 7
20211616161616161616161308090 9
20211616161613131313131313090 9
20211616161313131313131313131 8
20161616161313131313131313181 8
20161616201313131313131319191 9
 WATERSHED INDEX
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 CROP SEASON AND SHARE
   1 PASTURE               90. 270.  0.0162
   2 STORED FORAGE        150. 240.  0.0480
   3 GRAINS               150. 240.  0.0079
   4 GRN LEAFY VEGETABLES 150. 240.  0.0005
   5 OTHER FOOD CROPS     150. 240.  0.0036
   6 LEGUMES AND SEEDS    150. 240.  0.0002
   7 ROOTS AND TUBERS     150. 240.  0.0018
 WATERSHED DEFINITION  -- INITIAL AND ANNUAL WASHOFF AND INGESTION FACTORS
   1 Sr-89                           5.00E-06
   2 Sr-90                           5.00E-06
   3 Cs-134                          5.00E-06
   4 Cs-137                          5.00E-06
 REGIONAL ECONOMIC DATA
  01 FAIRFIELD      0.032 .008    5831.0   66592.0  287881.0
  02 BERGEN         0.009 .000   14568.0  124496.0  262186.0
  03 LITCHFIELD     0.159 .371     795.0   22373.0  186016.0
  04 NEWHAVEN       0.067 .029    5439.0   36942.0  192427.0
  05 ESSEX          0.002 .000   11903.0  120139.0  197400.0
  06 DUTCHESS       0.219 .207     698.0   16206.0  169417.0
  07 MORRIS         0.057 .006    6005.0   67365.0  277661.0
  08 PASSAIC        0.013 .000    9836.0   81944.0  161864.0
```

```
  09 SUSSEX         0.226 .311     483.0   18496.0  165741.0
  10 UNION          0.003 .000   91646.0  243939.0  209708.0
  11 KINGS          0.000 .000       0.0       0.0  123701.0
  12 NASSAU         0.006 .000   18237.0   88422.0  239932.0
  13 ORANGE         0.207 .288    1516.0   13148.0  148873.0
  14 PUTNAM         0.045 .000     892.0   24525.0  180274.0
  15 QUEENS         0.000 .000       0.0       0.0  226728.0
  16 ROCKLAND       0.011 .047    6365.0   65755.0  203359.0
  17 SUFFOLK        0.058 .000   14567.0   54566.0  192471.0
  18 SULLIVAN       0.103 .233    1466.0    7911.0  139374.0
  19 ULSTER         0.116 .043    1019.0    9908.0  138739.0
  20 WESTCHESTR     0.036 .009    2206.0   39116.0  263389.0
  21 WATER          0.000 .000       0.0       0.0       0.0
POPULATION

>>The Record Identifier TYPEBNUMBER was not found:
>>Type B results not being generated



USER INPUT IS READ FROM UNIT 26
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE

       *

    1  CHCHNAME001 'CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model'

*******************************************************************************

       * EMERGENCY RESPONSE COST DATA BLOCK

       *

       * DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)

       *

    2  CHEVACST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

       *

       * DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)

       *

    3  CHRELCST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

*******************************************************************************

       * LONG TERM PROTECTIVE ACTION DATA BLOCK

       *
```

```
      * Duration of the intermediate phase period--at version 1.11c TMIPND is no
      * longer processed.  The new input variable DUR_INTPHAS is the period's
      * duration, not the time after plume arrival at which the period ends.
      *
    4 DUR_INTPHAS   0.0    (in seconds)   (no intermediate phase)
      *
      * LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
      * PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
      *
    5 CHTMPACT001   1.58E8             (5 YEARS)
      *
      * DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
      *
    6 CHDSCRTI001   1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
      *
      * DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
      *
    7 CHDSCRLT001    0.04
      *
      * CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
      *
    8 CHCRTOCR001 'L-EDEWBODY'
      *
      * Long Term Exposure Period    Previously permanently set to:
      *    one million years = 3.15 E13 seconds
      *    MACCS2 allowable range is 3.15E7 to 1.E10
      *
    9 CHEXPTIM001    9.45E8
*******************************************************************************
      * DECONTAMINATION PLAN DATA BLOCK
      *
```

```
     * NUMBER OF LEVELS OF DECONTAMINATION
     *
  10 CHLVLDEC001  2
     *
     * DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
     *  (SECONDS)
     *
  11 CHTIMDEC001   5.184E6  1.0368E7    (60, 120 DAYS)
     *
     * DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF
DECONTAMINATION
     *
  12 CHDSRFCT001   3.      15.
     *
     * COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  13 CHCDFRM0001   972.   2160.
     *
     * COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  14 CHCDNFRM001   5184.   13824.
     *
     * FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  15 CHFRFDL0001  .3      .35
     *
     * FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  16 CHFRNFDL001  .7      .5
```

```
      *
      * FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   17 CHTFWKF0001  .10     .33
      *
      * FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   18 CHTFWKNF001  .33     .33
      *
      * AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
      *
   19 CHDLBCST001   60480.
*******************************************************************************
      * INTERDICTION COST DATA BLOCK
      *
      * DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
      *
   20 CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER
YEAR)
      * THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
      *
   21 CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * POPULATION RELOCATION COST (DOLLARS/PERSON):
      *  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
      *  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
      *
   22 CHPOPCST001   8640.
```

```
*******************************************************************************
      * GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
      *
  23  CHNGWTRM001   2
      *
      * GROUNDSHINE WEATHERING COEFFICIENTS
      *
  24  CHGWCOEF001   0.5    0.5            (JON HELTON)
      *
      * HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
      *
  25  CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*******************************************************************************
      * RESUSPENSION WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
      *
  26  CHNRWTRM001    3
      *
      * RESUSPENSION CONCENTRATION COEFFICIENTS   (/ METER)
      *  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
      *
  27  CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
      *
      * HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
      *
  28  CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*******************************************************************************
```

```
     * SITE REGION DESCRIPTION DATA BLOCK
     *
     * FRACTION OF AREA THAT IS LAND IN THE REGION
     *
  29 CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
     *
  30 CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
     *  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN
FARMS)
     *
  31 CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
     *  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME
CONSUMPTION)
     *
  32 CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * VALUE OF FARM WEALTH (DOLLARS/HECTARE)
     *  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
     *
  33 CHVALWF0001    50071.
     *
     * FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
     *
  34 CHFRFIM0001   0.25
     *
     * NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
     *  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
```

```
*  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
*
35  CHVALWNF001    208838.
*
* FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
*
36  CHFRNFIM001   0.8
*******************************************************************************
37  CHFDPATH001 'NEW'
*
* name of the COMIDA2 binary output file
*
38  BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
*
* Dose limits triggering first year crop disposal of the separate
* milk and non-milk components of the diet, corresponding in purpose,
* more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
*
* For NUREG-1150 calculations, the maximum allowable ground concentrations
for
* production of milk and non-milk crops contaminated by an accident occurring
* in the growing season were derived based on an assumed maximum allowable
* dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
* reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
* the prior results, it is being assumed, for simplicity, that milk and
* non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
* effective dose limit used in NUREG-1150 is equally split between milk and
* non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
* thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
* portions of the diet.
*
*             effective     thyroid  (doses in sieverts)
39  DOSEMILK001    0.025          0.075
```

```
40  DOSEOTHR001    0.025          0.075
    *
    * Annual dose limits for the subsequent year's (i.e., after the first year)
    * interdiction of BOTH the milk and non-milk (combined) components of the
diet
    *
    * Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
    * an ingestion dose integrated from zero to infinity.  It is not possible to
    * translate those parameter values into corresponding annual dose limits, as
is
    * required by the COMIDA2-based food model.  The "total" dose limits used in
    * NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are
used
    * here as annual dose limits for interdiction of food production in years the
    * years subsequent to the accident.
    *
    *             effective     thyroid  (doses in sieverts)
41  DOSELONG001    0.005          0.015
    *
    * NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
    *
42  CHNUMWPI001    4
    *
    * TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
    *
    * IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
    *  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
    *
    *                        INITIAL     ANNUAL    INGESTION FACTOR
    *             WATER      WASHOFF     WASHOFF    ((Bq INGESTED)/
    *            NUCLIDE     FRACTION     RATE       (Bq IN WATER))
    *
    *             NAMWPI      WSHFRI      WSHRTA         WINGF
43  CHWTRISO001   Sr-89        0.01       0.004          5.0E-6
```

```
44  CHWTRISO002   Sr-90        0.01       0.004          5.0E-6
45  CHWTRISO003   Cs-134       0.005      0.001          5.0E-6
46  CHWTRISO004   Cs-137       0.005      0.001          5.0E-6

*******************************************************************************
      * SPECIAL OPTIONS DATA BLOCK
      *
      * DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING
ON!!
      *          KSWDSC
      *
47  CHKSWTCH001   0

*******************************************************************************
      * DEFINE THE TYPE 9 RESULTS
      *
      * LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
48  TYPE9NUMBER   1      (UP TO 10 ALLOWED)
      *
      *              ORGNAM        INNER      OUTER
      *
49  TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)

*******************************************************************************
      * ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
50  TYP10NUMBER   1      (UP TO 10 ALLOWED)
```

```
       *
       *               INNER      OUTER
       *
   51  TYP10OUT001      1          15    (0-50 MILES)

*****************************************************************************
       * DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
       *
       * SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
       * A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE
OUTPUT.
       *
   52  TYP11FLAG11  .FALSE.

*****************************************************************************
       * IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF
IMPACTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
       *
   53  TYP12NUMBER   0      (UP TO 10 ALLOWED)
       *
       *               INNER      OUTER
       *
       *TYP12OUT001      1          15    (0-50 MILES)

*****************************************************************************
       * Maximal annual food ingestion dose to an individual, requested by IXOT13
       *
       * This result is calculated after accounting for temporary or
       * permanent interdiction.  It is only available for the "new" food model.
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       *
```

```
  54  TYP13NUMBER   0   (UP TO 10 ALLOWED)
      *
      * IRAD13 is the radial spatial interval at which results are requested
      *
      * ORGN13 is the name of the organ for which results are requested
      *  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
      *
      *          IRAD13   ORGN13
      *
      *TYP13OUT001   2    EFFECTIVE
      *TYP13OUT002   4    EFFECTIVE
      *TYP13OUT003   6    EFFECTIVE
      *TYP13OUT004   8    EFFECTIVE
      *TYP13OUT005  10    EFFECTIVE
      *TYP13OUT006  12    EFFECTIVE
      *TYP13OUT007  15    EFFECTIVE
      *TYP13OUT008   2    THYROID
      *TYP13OUT009   4    THYROID
      *TYP13OUT010   6    THYROID
      *TYP13OUT011   8    THYROID
      *TYP13OUT012  10    THYROID
      *TYP13OUT013  12    THYROID
      *TYP13OUT014  15    THYROID
      .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********

USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  318
NUMBER OF BLANK OR COMMENT RECORDS READ         =  263
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   54
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   54
*******************************************************************************
****************
```

```
COMIDA2 binary file header =
COMIDA2 01/14/2004 13:06:02   Version 1.11.1, 01/12/2004

COMIDA2 descriptive title  =
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47

Seven new organs added with MACCS Version 1.5.11.1


A SITE DATA FILE IS BEING USED FOR BOTH "EARLY" AND "CHRONC"

 7 CANCER EFFECTS ARE DEFINED IN THE MODEL.
    INDEX  CANCER EFFECT                    ORGAN       ALPHA       BETA     CFRISK
   CIRISK
       1                       LEUKEMIA     L-RED MARR   1.000E+00  0.000E+00
9.700E-03  0.000E+00
       2                       BONE         L-BONE SUR   1.000E+00  0.000E+00
9.000E-04  0.000E+00
       3                       BREAST       L-BREAST     1.000E+00  0.000E+00
5.400E-03  1.700E-02
       4                       LUNG         L-LUNGS      1.000E+00  0.000E+00
1.550E-02  0.000E+00
       5                       THYROID      L-THYROIDH   1.000E+00  0.000E+00
7.200E-04  7.200E-03
       6                       GI           L-LOWER LI   1.000E+00  0.000E+00
3.360E-02  0.000E+00
       7                       OTHER        L-EDEWBODY   1.000E+00  0.000E+00
2.760E-02  0.000E+00

  TIME OF HOTSPOT RELOCATION IS 4.3200E+04.
  TIME OF NORMAL RETURN IS  8.640E+04 AND THE EMERGENCY PHASE ENDS AT  6.048E+05.


GROUNDSHINE SHIELDING FACTOR   = 0.400

RESUSPENSION PROTECTION FACTOR = 0.410

BREATHING RATE (CUBIC M/S) =   2.660E-04

  DISPERSION MODEL FLAG IS  2

  WINDROSE PROBABILITIES BY WIND DIRECTION AND MET BIN NUMBER
 BIN     1      2      3      4      5      6      7      8      9     10     11
12     13     14     15     16
    1 0.3011 0.0161 0.0215 0.0645 0.0484 0.0645 0.1075 0.0860 0.0860 0.0108 0.0000
0.0000 0.0000 0.0000 0.0215 0.1720
    2 0.0647 0.0118 0.0353 0.0294 0.0176 0.1765 0.1941 0.0412 0.2412 0.1000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0882
    3 0.1176 0.1471 0.0441 0.0294 0.0221 0.0074 0.0221 0.0147 0.0441 0.0368 0.0294
0.0441 0.1029 0.0882 0.1029 0.1471
    4 0.2028 0.0985 0.0572 0.0507 0.0608 0.0492 0.0623 0.0615 0.0862 0.0883 0.0507
0.0224 0.0224 0.0087 0.0174 0.0608
    5 0.1636 0.0547 0.0250 0.0361 0.0623 0.0850 0.1054 0.0856 0.1752 0.1368 0.0204
0.0064 0.0006 0.0006 0.0000 0.0425
    6 0.1339 0.0360 0.0084 0.0151 0.0343 0.0895 0.1548 0.0711 0.2075 0.2243 0.0017
0.0000 0.0000 0.0000 0.0000 0.0234
    7 0.1351 0.0405 0.0405 0.0000 0.0676 0.0946 0.1622 0.0405 0.2973 0.1216 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    9 0.1129 0.0753 0.0579 0.0420 0.0478 0.0232 0.0434 0.0507 0.0999 0.0897 0.0651
0.0449 0.0449 0.0608 0.0521 0.0897
   10 0.1797 0.1166 0.0507 0.0478 0.0287 0.0229 0.0096 0.0067 0.0229 0.1941 0.1252
```

0.0488 0.0220 0.0191 0.0239 0.0813
11 0.3345 0.0669 0.0106 0.0000 0.0035 0.0070 0.0070 0.0035 0.0246 0.3028 0.1338 0.0106 0.0035 0.0000 0.0000 0.0915
12 0.4412 0.0000 0.0000 0.0000 0.0000 0.0294 0.0000 0.0000 0.0294 0.3529 0.0588 0.0000 0.0000 0.0000 0.0000 0.0882
13 0.0345 0.0460 0.0345 0.0172 0.0115 0.0517 0.0460 0.1034 0.2701 0.1552 0.0517 0.0805 0.0172 0.0287 0.0230 0.0287
14 0.0100 0.0150 0.0100 0.0150 0.0050 0.0000 0.0050 0.0100 0.0850 0.4800 0.2350 0.0450 0.0600 0.0100 0.0150 0.0000
15 0.0000 0.0000 0.0000 0.0000 0.0147 0.0000 0.0000 0.0000 0.0000 0.5588 0.4265 0.0000 0.0000 0.0000 0.0000 0.0000
16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.6000 0.4000 0.0000 0.0000 0.0000 0.0000 0.0000
17 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
18 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
19 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
20 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
21 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
22 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
23 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
24 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
25 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
26 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
27 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
28 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
29 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
30 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
31 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
32 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
33 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
34 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
35 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
36 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
37 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
38 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
39 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
40 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739 0.0380 0.0337 0.0302 0.0323 0.1127
41 0.1589 0.0675 0.0345 0.0320 0.0382 0.0499 0.0677 0.0510 0.1219 0.1761 0.0592 0.0239 0.0186 0.0155 0.0177 0.0674

```
Processing a Site Data File with Header: MACCS2 Site Data File for Indian Point
Energy Center
 SITE FILE

 THIS PROGRAM CURRENTLY ALLOWS THE GENERATION OF UP TO  394 RESULTS

YOU HAVE REQUESTED  10 RESULTS FROM "EARLY" COMPOSED OF:

   4 RESULTS OF TYPE 1
   0 RESULTS OF TYPE 2
   0 RESULTS OF TYPE 3
   3 RESULTS OF TYPE 4
   1 RESULTS OF TYPE 5
   0 RESULTS OF TYPE 6
   0 RESULTS OF TYPE 7
   2 RESULTS OF TYPE 8
   0 RESULTS OF TYPE A
   0 RESULTS OF TYPE B

YOU HAVE REQUESTED   30 RESULTS FROM "CHRONC" COMPOSED OF:

  17 RESULTS OF TYPE 9
  13 RESULTS OF TYPE 10
   0 RESULTS OF TYPE 11
   0 RESULTS OF TYPE 12
   0 RESULTS OF TYPE 13


     TRIAL        DAY       HOUR        BIN     PRBMET
         1        156         19         21   6.02E-03
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 156, selecting COMIDA2 results # 4 of 9
         2        156         21         18   1.46E-03
For Julian Day 156, selecting COMIDA2 results # 4 of 9
         3        163         13         40   7.99E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         4        163         16         37   3.42E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         5        163         17         35   8.85E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         6        165          9         23   1.66E-03
For Julian Day 165, selecting COMIDA2 results # 4 of 9
         7        166         12         28   1.23E-03
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         8        166         18         27   5.71E-04
```

```
For Julian Day 166, selecting COMIDA2 results # 4 of 9
          9        166         19         26   2.85E-04
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         10        166         21         25   2.00E-04
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         11        166         22         24   1.43E-04
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         12        167          7          3   3.88E-03
For Julian Day 167, selecting COMIDA2 results # 5 of 9
         13        168          5          9   1.97E-02
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         14        169         19          4   3.94E-02
For Julian Day 169, selecting COMIDA2 results # 5 of 9
         15        171         12          1   5.31E-03
For Julian Day 171, selecting COMIDA2 results # 5 of 9
         16        176          3         15   1.94E-03
For Julian Day 176, selecting COMIDA2 results # 5 of 9
         17        176          6         10   2.99E-02
For Julian Day 176, selecting COMIDA2 results # 5 of 9
         18        181         23         22   1.02E-02
For Julian Day 181, selecting COMIDA2 results # 5 of 9
         19        186         13          2   4.85E-03
For Julian Day 186, selecting COMIDA2 results # 5 of 9
         20        190         14         25   2.00E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         21        190         15         24   1.43E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         22        197         18          6   3.41E-02
For Julian Day 197, selecting COMIDA2 results # 6 of 9
         23        200         17         29   6.56E-04
For Julian Day 200, selecting COMIDA2 results # 6 of 9
         24        204         15         20   2.14E-03
For Julian Day 204, selecting COMIDA2 results # 6 of 9
         25        207          7         34   5.42E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         26        207         10         33   2.28E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         27        207         12         33   2.28E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         28        207         13         32   1.14E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         29        207         14         31   1.14E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         30        207         15         30   1.14E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         31        212         12          5   4.90E-02
For Julian Day 212, selecting COMIDA2 results # 6 of 9
         32        220         24         16   2.85E-04
For Julian Day 220, selecting COMIDA2 results # 6 of 9
         33        221          2         16   2.85E-04
For Julian Day 221, selecting COMIDA2 results # 6 of 9
         34        221          6         11   8.11E-03
For Julian Day 221, selecting COMIDA2 results # 6 of 9
         35        223         11          4   3.94E-02
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         36        226          2         13   4.97E-03
For Julian Day 226, selecting COMIDA2 results # 7 of 9
         37        228          1         40   7.99E-04
For Julian Day 228, selecting COMIDA2 results # 7 of 9
         38        228          6         39   6.56E-04
For Julian Day 228, selecting COMIDA2 results # 7 of 9
         39        228          9         39   6.56E-04
For Julian Day 228, selecting COMIDA2 results # 7 of 9
```

```
         40        228         11         36   1.14E-04
For Julian Day 228, selecting COMIDA2 results # 7 of 9
         41        231         23         28   1.23E-03
For Julian Day 231, selecting COMIDA2 results # 7 of 9
         42        232          4         26   2.85E-04
For Julian Day 232, selecting COMIDA2 results # 7 of 9
         43        234          4          9   1.97E-02
For Julian Day 234, selecting COMIDA2 results # 7 of 9
         44        238          8         12   9.70E-04
For Julian Day 238, selecting COMIDA2 results # 7 of 9
         45        238         22         14   5.71E-03
For Julian Day 238, selecting COMIDA2 results # 7 of 9
         46        238         24         15   1.94E-03
For Julian Day 238, selecting COMIDA2 results # 7 of 9
         47        240         23         34   5.42E-04
For Julian Day 240, selecting COMIDA2 results # 7 of 9
         48        241          2         34   5.42E-04
For Julian Day 241, selecting COMIDA2 results # 7 of 9
         49        241          4         32   1.14E-04
For Julian Day 241, selecting COMIDA2 results # 7 of 9
         50        241          6         35   8.85E-04
For Julian Day 241, selecting COMIDA2 results # 7 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
         51        241          9         29   6.56E-04
For Julian Day 241, selecting COMIDA2 results # 7 of 9
         52        242         24         16   2.85E-04
For Julian Day 242, selecting COMIDA2 results # 7 of 9
         53        243         18          3   3.88E-03
For Julian Day 243, selecting COMIDA2 results # 7 of 9
         54        246         14         40   7.99E-04
For Julian Day 246, selecting COMIDA2 results # 7 of 9
         55        246         22         38   2.28E-04
For Julian Day 246, selecting COMIDA2 results # 7 of 9
         56        247          1         37   3.42E-04
For Julian Day 247, selecting COMIDA2 results # 7 of 9
         57        250         24         14   5.71E-03
For Julian Day 250, selecting COMIDA2 results # 7 of 9
         58        255         15          1   5.31E-03
For Julian Day 255, selecting COMIDA2 results # 7 of 9
         59        258         12         19   2.74E-03
For Julian Day 258, selecting COMIDA2 results # 8 of 9
         60        260         23         15   1.94E-03
For Julian Day 260, selecting COMIDA2 results # 8 of 9
         61        262          7         10   2.99E-02
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         62        265         11          1   5.31E-03
For Julian Day 265, selecting COMIDA2 results # 8 of 9
         63        269         20         17   8.50E-03
For Julian Day 269, selecting COMIDA2 results # 8 of 9
         64        277          3         17   8.50E-03
For Julian Day 277, selecting COMIDA2 results # 8 of 9
         65        284         14         19   2.74E-03
For Julian Day 284, selecting COMIDA2 results # 8 of 9
         66        289         18          7   2.11E-03
For Julian Day 289, selecting COMIDA2 results # 9 of 9
         67        295          5         11   8.11E-03
For Julian Day 295, selecting COMIDA2 results # 9 of 9
         68        300         11         21   6.02E-03
For Julian Day 300, selecting COMIDA2 results # 9 of 9
         69        304          9          6   3.41E-02
For Julian Day 304, selecting COMIDA2 results # 9 of 9
```

```
         70        320          3         27   5.71E-04
For Julian Day 320, selecting COMIDA2 results # 9 of 9
         71        321          6         23   1.66E-03
For Julian Day 321, selecting COMIDA2 results # 9 of 9
         72        321         15         20   2.14E-03
For Julian Day 321, selecting COMIDA2 results # 9 of 9
         73        323         16          5   4.90E-02
For Julian Day 323, selecting COMIDA2 results # 9 of 9
         74        326          9         22   1.02E-02
For Julian Day 326, selecting COMIDA2 results # 9 of 9
         75        326         18         35   8.85E-04
For Julian Day 326, selecting COMIDA2 results # 9 of 9
         76        329          2         13   4.97E-03
For Julian Day 329, selecting COMIDA2 results # 9 of 9
         77        341         19         11   8.11E-03
For Julian Day 341, selecting COMIDA2 results # 1 of 9
         78        345          3         12   9.70E-04
For Julian Day 345, selecting COMIDA2 results # 1 of 9
         79        348         13         18   1.46E-03
For Julian Day 348, selecting COMIDA2 results # 1 of 9
         80        353         19         22   1.02E-02
For Julian Day 353, selecting COMIDA2 results # 1 of 9
         81        354          4         19   2.74E-03
For Julian Day 354, selecting COMIDA2 results # 1 of 9
         82        354         12         32   1.14E-04
For Julian Day 354, selecting COMIDA2 results # 1 of 9
         83        361          8         10   2.99E-02
For Julian Day 361, selecting COMIDA2 results # 1 of 9
         84        363         13          6   3.41E-02
For Julian Day 363, selecting COMIDA2 results # 1 of 9
         85          6         22         29   6.56E-04
For Julian Day   6, selecting COMIDA2 results # 1 of 9
         86          7         16          2   4.85E-03
For Julian Day   7, selecting COMIDA2 results # 1 of 9
         87         14         20          3   3.88E-03
For Julian Day  14, selecting COMIDA2 results # 1 of 9
         88         21         23          4   3.94E-02
For Julian Day  21, selecting COMIDA2 results # 1 of 9
         89         24          1         21   6.02E-03
For Julian Day  24, selecting COMIDA2 results # 1 of 9
         90         24         10         18   1.46E-03
For Julian Day  24, selecting COMIDA2 results # 1 of 9
         91         29          6         13   4.97E-03
For Julian Day  29, selecting COMIDA2 results # 1 of 9
         92         30         15         16   2.85E-04
For Julian Day  30, selecting COMIDA2 results # 1 of 9
         93         32         15         17   8.50E-03
For Julian Day  32, selecting COMIDA2 results # 2 of 9
         94         32         20          7   2.11E-03
For Julian Day  32, selecting COMIDA2 results # 2 of 9
         95         35          6         14   5.71E-03
For Julian Day  35, selecting COMIDA2 results # 2 of 9
         96         37         13          5   4.90E-02
For Julian Day  37, selecting COMIDA2 results # 2 of 9
         97         41          4         28   1.23E-03
For Julian Day  41, selecting COMIDA2 results # 2 of 9
         98         41          8         28   1.23E-03
For Julian Day  41, selecting COMIDA2 results # 2 of 9
         99         41         15         27   5.71E-04
For Julian Day  41, selecting COMIDA2 results # 2 of 9
        100         41         16         26   2.85E-04
For Julian Day  41, selecting COMIDA2 results # 2 of 9
```

```
     TRIAL        DAY       HOUR        BIN     PRBMET
       101         41         18         25   2.00E-04
For Julian Day  41, selecting COMIDA2 results # 2 of 9
       102         41         19         24   1.43E-04
For Julian Day  41, selecting COMIDA2 results # 2 of 9
       103         41         20         23   1.66E-03
For Julian Day  41, selecting COMIDA2 results # 2 of 9
       104         45          3          4   3.94E-02
For Julian Day  45, selecting COMIDA2 results # 2 of 9
       105         46         18         12   9.70E-04
For Julian Day  46, selecting COMIDA2 results # 2 of 9
       106         47          9          9   1.97E-02
For Julian Day  47, selecting COMIDA2 results # 2 of 9
       107         49          2          7   2.11E-03
For Julian Day  49, selecting COMIDA2 results # 2 of 9
       108         51          6          9   1.97E-02
For Julian Day  51, selecting COMIDA2 results # 2 of 9
       109         66         23         12   9.70E-04
For Julian Day  66, selecting COMIDA2 results # 2 of 9
       110         68         23         20   2.14E-03
For Julian Day  68, selecting COMIDA2 results # 2 of 9
       111         75         15          6   3.41E-02
For Julian Day  75, selecting COMIDA2 results # 2 of 9
       112         78          4          3   3.88E-03
For Julian Day  78, selecting COMIDA2 results # 2 of 9
       113         85         17         27   5.71E-04
For Julian Day  85, selecting COMIDA2 results # 2 of 9
       114         86         12          2   4.85E-03
For Julian Day  86, selecting COMIDA2 results # 2 of 9
       115         90          3         11   8.11E-03
For Julian Day  90, selecting COMIDA2 results # 2 of 9
       116         90         16         22   1.02E-02
For Julian Day  90, selecting COMIDA2 results # 2 of 9
       117         90         21         21   6.02E-03
For Julian Day  90, selecting COMIDA2 results # 2 of 9
       118        106          5         13   4.97E-03
For Julian Day 106, selecting COMIDA2 results # 3 of 9
       119        109          9         34   5.42E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       120        109         11         33   2.28E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       121        109         12         33   2.28E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       122        109         13         31   1.14E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       123        109         16         25   2.00E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       124        109         18         23   1.66E-03
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       125        110          5         10   2.99E-02
For Julian Day 110, selecting COMIDA2 results # 3 of 9
       126        112          7         18   1.46E-03
For Julian Day 112, selecting COMIDA2 results # 3 of 9
       127        114          2         15   1.94E-03
For Julian Day 114, selecting COMIDA2 results # 3 of 9
       128        114          6         14   5.71E-03
For Julian Day 114, selecting COMIDA2 results # 3 of 9
       129        116         12          2   4.85E-03
For Julian Day 116, selecting COMIDA2 results # 3 of 9
       130        118         16         39   6.56E-04
For Julian Day 118, selecting COMIDA2 results # 3 of 9
       131        118         17         38   2.28E-04
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For Julian Day 118, selecting COMIDA2 results # 3 of 9
        132        118         23         26   2.85E-04
For Julian Day 118, selecting COMIDA2 results # 3 of 9
        133        118         24         24   1.43E-04
For Julian Day 118, selecting COMIDA2 results # 3 of 9
        134        120         19         29   6.56E-04
For Julian Day 120, selecting COMIDA2 results # 3 of 9
        135        122         12         40   7.99E-04
For Julian Day 122, selecting COMIDA2 results # 3 of 9
        136        122         16         39   6.56E-04
For Julian Day 122, selecting COMIDA2 results # 3 of 9
        137        122         17         38   2.28E-04
For Julian Day 122, selecting COMIDA2 results # 3 of 9
        138        131         11          1   5.31E-03
For Julian Day 131, selecting COMIDA2 results # 3 of 9
        139        132         14         17   8.50E-03
For Julian Day 132, selecting COMIDA2 results # 3 of 9
        140        132         15         37   3.42E-04
For Julian Day 132, selecting COMIDA2 results # 3 of 9
        141        132         16         35   8.85E-04
For Julian Day 132, selecting COMIDA2 results # 3 of 9
        142        133          1         19   2.74E-03
For Julian Day 133, selecting COMIDA2 results # 3 of 9
        143        135          7          5   4.90E-02
For Julian Day 135, selecting COMIDA2 results # 3 of 9
        144        137         23         20   2.14E-03
For Julian Day 137, selecting COMIDA2 results # 4 of 9
        145        138         11          7   2.11E-03
For Julian Day 138, selecting COMIDA2 results # 4 of 9
        146        148          1         38   2.28E-04
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        147        148          4         37   3.42E-04
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        148        148          5         36   1.14E-04
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        149        151         18         32   1.14E-04
For Julian Day 151, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.89 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
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For Julian Day 151, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 156, selecting COMIDA2 results # 4 of 9
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For Julian Day 151, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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 WARNING!! WARNING!! WARNING!! WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 24.00 HOURS

 WARNING!! WARNING!! WARNING!! WARNING!!

For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 156, selecting COMIDA2 results # 4 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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  DATE AND TIME OF RUN = MACCS2 13-NOV-09 15:08:16 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 1 OF 8:
    NCF

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:

FRACTION OF THE PEOPLE

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
               1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC" DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN LATER SECTIONS.

13-NOV-09 15:08:16   PAGE 1   PROB   QUANTILES
                         PEAK   PEAK PEAK
                                       NON-ZERO   MEAN   50TH   90TH   95TH
     99TH   99.5TH   CONS   PROB TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL   0-80.5 km 1.0000 2.10E+00 2.01E+00 3.85E+00
4.91E+00 6.32E+00 7.01E+00 9.68E+00 4.57E-04 138
 CAN FAT/TOTAL   0-16.1 km 1.0000 9.63E-01 8.49E-01 1.57E+00
1.97E+00 2.11E+00 2.16E+00 2.77E+00 3.69E-06 140

POPULATION DOSE (Sv)
 L-EDEWBODY TOT LIF   0-80.5 km 1.0000 4.70E+01 4.27E+01 8.70E+01
1.07E+02 1.46E+02 1.67E+02 2.16E+02 4.57E-04 138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL   0-16.1 km 1.0000 2.44E-06 2.20E-06 4.07E-06
4.99E-06 5.33E-06 5.48E-06 7.04E-06 3.69E-06 140
  DATE AND TIME OF RUN = MACCS2 13-NOV-09 15:08:16 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

SOURCE TERM 1 OF 8:
    NCF

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING APPLIED

```
    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:08:16    PAGE   2          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.56E-01  1.24E-01  2.75E-01
3.23E-01  4.43E-01  5.09E-01  6.86E-01  1.34E-03  118
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.38E-02  6.58E-02  1.16E-01
1.32E-01  1.76E-01 NOT-FOUND  1.99E-01  5.17E-03   31
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.40E+00  3.07E+00  6.26E+00
7.48E+00  1.01E+01  1.16E+01  1.49E+01  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.89E-07  1.53E-07  3.19E-07
3.54E-07  4.52E-07 NOT-FOUND  5.08E-07  5.17E-03   31
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:08:16    PAGE   3          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.95E+00  1.85E+00  3.33E+00
3.95E+00  5.86E+00  6.92E+00  9.13E+00  4.57E-04  138
 CAN FAT/TOTAL               0-16.1 km  1.0000  8.89E-01  7.93E-01  1.47E+00
1.84E+00  2.08E+00  2.12E+00  2.58E+00  3.69E-06  140

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  4.36E+01  3.83E+01  7.89E+01
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1.02E+02  1.29E+02  1.42E+02  2.04E+02  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.26E-06  2.07E-06  3.91E-06
4.87E-06  5.23E-06  5.33E-06  6.56E-06  3.69E-06  140

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  4.36E+01  3.83E+01  7.89E+01
1.02E+02  1.29E+02  1.42E+02  2.04E+02  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  4.31E+01  3.81E+01  7.88E+01
1.02E+02  1.28E+02  1.42E+02  2.04E+02  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.90E-01  1.61E-01  1.51E+00
2.08E+00  2.57E+00  2.81E+00  3.94E+00  4.39E-05    2
 LONG-TERM GROUNDSHINE DOSE             1.0000  4.18E+01  3.64E+01  7.32E+01
9.79E+01  1.26E+02  1.39E+02  1.98E+02  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  1.30E+00  1.07E+00  2.41E+00
3.09E+00  4.30E+00  4.95E+00  6.17E+00  4.57E-04  138
 WATER INGESTION DOSE                   1.0000  2.70E-02  2.40E-02  5.04E-02
5.31E-02  5.96E-02  6.27E-02  7.14E-02  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    0.3460  4.75E-03  0.00E+00  1.42E-02
1.86E-02  2.10E-02  2.14E-02  2.32E-02  4.41E-04   37
 FARM-DEPENDENT DECONTAMINATION DOSE    0.3460  4.94E-07  0.00E+00  1.45E-06
1.92E-06  2.12E-06  2.18E-06  2.41E-06  4.41E-04   37
 INGESTION OF GRAINS                    1.0000  1.40E-02  2.41E-03  5.17E-02
6.45E-02  8.02E-02  8.60E-02  1.23E-01  4.39E-05    2
 INGESTION OF LEAF VEG                  1.0000  2.35E-02  3.60E-03  7.34E-02
9.69E-02  2.32E-01  2.67E-01  3.94E-01  2.56E-04   63
 INGESTION OF ROOT CROPS                1.0000  1.85E-02  3.20E-03  6.90E-02
8.03E-02  1.04E-01  1.10E-01  1.61E-01  4.39E-05    2
 INGESTION OF FRUITS                    1.0000  2.73E-02  4.65E-03  1.00E-01
1.11E-01  1.40E-01  1.56E-01  2.37E-01  4.39E-05    2
 INGESTION OF LEGUMES                   1.0000  1.59E-02  2.64E-03  5.67E-02
7.20E-02  8.77E-02  9.55E-02  1.37E-01  4.39E-05    2
 INGESTION OF BEEF                      1.0000  1.47E-01  5.01E-02  4.74E-01
6.18E-01  8.01E-01  8.63E-01  1.31E+00  4.39E-05    2
 INGESTION OF MILK                      1.0000  1.71E-01  4.92E-02  5.75E-01
7.32E-01  9.68E-01  1.04E+00  1.57E+00  4.39E-05    2
 INGESTION OF POULTRY                   1.0000  3.61E-02  1.03E-02  1.07E-01
1.48E-01  3.24E-01  3.59E-01  5.07E-01  2.56E-04   63
 INGESTION OF OTHER MEAT CROPS          1.0000  8.82E-03  4.59E-03  2.16E-02
2.79E-02  5.89E-02  6.87E-02  9.60E-02  2.56E-04   63

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   0.6508  1.21E+05  2.60E+03  3.38E+05
3.70E+05  4.57E+05 NOT-FOUND  4.98E+05  5.17E-03   31
 POP.-DEPENDENT COSTS                   0.3460  1.13E+05  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  4.12E+05  2.26E-01    4
 FARM-DEPENDENT COSTS                   0.6508  7.44E+03  8.97E+02  2.06E+04
2.88E+04  7.71E+04 NOT-FOUND  8.56E+04  5.17E-03   31
 POP.-DEPENDENT DECONTAMINATION COST    0.3460  2.42E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  8.81E+04  2.26E-01    4
 FARM-DEPENDENT DECONTAMINATION COST    0.3460  1.94E+01  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  7.04E+01  2.26E-01    4
 POP.-DEPENDENT INTERDICTION COST       0.3460  8.92E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  3.24E+05  2.26E-01    4
 FARM-DEPENDENT INTERDICTION COST       0.6508  5.95E+03  6.36E+02  1.50E+04
2.20E+04  5.84E+04 NOT-FOUND  6.92E+04  5.17E-03   31
 POP.-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 FARM-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 EMERGENCY PHASE COST                   0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
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 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:08:16    PAGE   4          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     0.6253  1.35E+01  4.82E-01  4.11E+01
7.89E+01  1.68E+02  2.13E+02  3.37E+02  3.51E-04    1
 CROP DISPOSAL COST                     0.6302  1.45E+03  1.62E+02  3.77E+03
4.60E+03  1.34E+04 NOT-FOUND  1.62E+04  5.17E-03   31
XXXX
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XXXX

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XXXX
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RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:08:16    PAGE   6          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  1.0000  1.53E+02  7.95E+01  3.65E+02
4.52E+02  6.15E+02  6.88E+02  1.16E+03  2.85E-05   95
 CAN FAT/TOTAL              0-80.5 km  1.0000  2.35E+04  1.44E+04  5.48E+04
7.86E+04  1.04E+05  1.06E+05  1.14E+05  6.28E-04   66
 CAN FAT/TOTAL              0-16.1 km  1.0000  5.71E+03  5.26E+03  9.49E+03
1.06E+04  1.27E+04  1.37E+04  1.93E+04  2.28E-04   91
 ERL FAT/TOTAL              0-16.1 km  1.0000  1.53E+02  7.95E+01  3.65E+02
4.52E+02  6.15E+02  6.88E+02  1.16E+03  2.85E-05   95

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  1.0000  1.68E-01  1.45E-01  2.08E-01
2.14E-01  2.28E-01  2.34E-01  2.65E-01  2.28E-04   26
 ERL FAT/TOTAL             0.3-1.6 km  0.9310  3.04E-02  2.40E-02  6.03E-02
6.69E-02  7.55E-02  7.86E-02  8.68E-02  8.85E-04  141
 ERL FAT/TOTAL             1.6-3.2 km  0.5292  1.46E-03  9.77E-05  2.74E-03
7.86E-03  2.40E-02 NOT-FOUND  2.89E-02  5.71E-03   95

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  2.90E+05  1.78E+05  6.76E+05
1.00E+06  1.13E+06  1.20E+06  1.44E+06  4.57E-04   62

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  1.0000  9.08E-03  4.66E-03  2.30E-02
2.75E-02  3.51E-02  3.83E-02  6.25E-02  2.85E-05   95
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.46E-02  1.22E-02  2.42E-02
2.93E-02  3.46E-02  3.69E-02  4.93E-02  2.28E-04   91
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:08:16    PAGE   7          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.35E+04  5.98E+03  3.60E+04
4.68E+04  5.61E+04  5.93E+04  8.34E+04  1.71E-04  112
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.00E+02  3.52E+02  5.30E+02
5.73E+02  6.88E+02  7.33E+02  9.41E+02  2.57E-04   58
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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.03E+05  1.39E+05  7.93E+05
9.89E+05  1.20E+06  1.30E+06  1.90E+06  1.71E-04  112

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  0.9715  3.78E-04  3.39E-04  6.42E-04
7.61E-04  1.03E-03  1.09E-03  1.43E-03  2.57E-04   62

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  3.03E+05  1.39E+05  7.93E+05
9.89E+05  1.20E+06  1.30E+06  1.90E+06  1.71E-04  112
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  2.40E+05  9.83E+04  6.30E+05
7.18E+05  8.11E+05  8.55E+05  1.17E+06  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  3.93E+03  3.58E+03  6.22E+03
7.13E+03  9.19E+03  1.01E+04  1.07E+04  1.34E-03   91
 LONG-TERM GROUNDSHINE DOSE             1.0000  2.30E+05  9.47E+04  6.07E+05
7.09E+05  8.05E+05  8.50E+05  1.15E+06  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  9.64E+03  3.76E+03  2.36E+04
2.69E+04  3.23E+04  3.39E+04  3.49E+04  3.40E-03   35
 WATER INGESTION DOSE                   1.0000  3.71E+03  3.39E+03  5.92E+03
6.78E+03  8.64E+03  9.56E+03  1.07E+04  1.34E-03   91
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  5.94E+04  2.68E+04  1.46E+05
2.54E+05  3.58E+05  3.89E+05  8.44E+05  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.87E+01  1.65E+01  1.03E+02
1.19E+02  1.68E+02  1.95E+02  3.06E+02  1.60E-03  138
 INGESTION OF GRAINS                    1.0000  3.53E+00  1.65E+00  9.41E+00
1.13E+01  1.60E+01  1.85E+01  2.53E+01  1.41E-05   55
 INGESTION OF LEAF VEG                  1.0000  2.75E+01  1.28E+01  6.97E+01
8.11E+01  1.20E+02  1.46E+02  2.06E+02  1.60E-03  138
 INGESTION OF ROOT CROPS                1.0000  1.67E+01  7.82E+00  4.11E+01
5.15E+01  7.15E+01  8.55E+01  1.26E+02  1.60E-03  138
 INGESTION OF FRUITS                    1.0000  1.52E+01  7.01E+00  3.73E+01
4.62E+01  5.95E+01  6.50E+01  9.95E+01  8.56E-05  138
 INGESTION OF LEGUMES                   1.0000  3.28E+01  1.50E+01  8.40E+01
1.03E+02  1.49E+02  1.74E+02  2.49E+02  1.60E-03  138
 INGESTION OF BEEF                      1.0000  5.55E+01  1.19E+01  1.94E+02
2.99E+02  3.93E+02  4.41E+02  5.50E+02  8.85E-04  106
 INGESTION OF MILK                      1.0000  4.70E+01  1.43E+01  1.54E+02
2.21E+02  3.13E+02  3.38E+02  4.56E+02  3.14E-04  114
 INGESTION OF POULTRY                   1.0000  1.12E+01  3.46E+00  3.45E+01
4.78E+01  7.36E+01  8.10E+01  9.84E+01  1.23E-03   69
 INGESTION OF OTHER MEAT CROPS          1.0000  5.36E+00  1.41E+00  1.96E+01
2.53E+01  3.59E+01  4.00E+01  5.18E+01  1.23E-03   69

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  1.96E+11  1.01E+11  5.15E+11
6.58E+11  7.91E+11  8.39E+11  1.55E+12  1.71E-04  112
 POP.-DEPENDENT COSTS                   1.0000  1.95E+11  1.01E+11  5.15E+11
6.58E+11  7.91E+11  8.39E+11  1.55E+12  1.71E-04  112
 FARM-DEPENDENT COSTS                   1.0000  4.07E+08  2.24E+08  1.02E+09
1.10E+09  1.32E+09  1.42E+09  1.61E+09  1.60E-03  138
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  4.21E+10  1.59E+10  1.04E+11
1.13E+11  1.37E+11  1.50E+11  2.06E+11  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  3.97E+07  1.81E+07  8.91E+07
1.03E+08  1.35E+08  1.51E+08  1.82E+08  1.60E-03  138
 POP.-DEPENDENT INTERDICTION COST       1.0000  1.39E+11  6.33E+10  3.62E+11
4.72E+11  7.43E+11  8.00E+11  1.36E+12  1.71E-04  112
 FARM-DEPENDENT INTERDICTION COST       1.0000  3.13E+08  1.38E+08  7.64E+08
8.38E+08  1.04E+09  1.15E+09  1.36E+09  1.60E-03  138
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.39E+10  7.67E+09  3.85E+10
5.07E+10  5.51E+10  5.71E+10  6.62E+10  2.91E-04   26
 FARM-DEPENDENT CONDEMNATION COST       1.0000  1.40E+07  8.06E+06  4.55E+07
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5.13E+07 5.47E+07 5.62E+07 6.60E+07 8.85E-05 142
 EMERGENCY PHASE COST 1.0000 2.19E+08 7.47E+07 5.10E+08
8.72E+08 2.05E+09 2.13E+09 2.43E+09 4.57E-04 58
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
13-NOV-09 15:08:16 PAGE 8 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($) 0-80.5 km
 MILK DISPOSAL COST 1.0000 1.04E+06 2.28E+05 2.77E+06
3.36E+06 4.98E+06 5.17E+06 6.26E+06 1.14E-04 138
 CROP DISPOSAL COST 1.0000 3.94E+07 3.72E+07 5.99E+07
6.64E+07 7.87E+07 8.39E+07 9.89E+07 8.56E-04 129
XXXX

XXXX

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SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:08:16    PAGE  10          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.8944  5.31E+00  2.00E+00  1.32E+01
1.64E+01  2.17E+01  2.29E+01  2.82E+01  3.93E-04  141
 CAN FAT/TOTAL               0-80.5 km  1.0000  4.49E+03  3.09E+03  9.42E+03
1.37E+04  2.10E+04  2.18E+04  3.32E+04  1.23E-05  149
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.10E+03  1.01E+03  1.74E+03
2.06E+03  2.47E+03  2.67E+03  3.33E+03  5.71E-05   36
 ERL FAT/TOTAL               0-16.1 km  0.8944  5.31E+00  2.00E+00  1.32E+01
1.64E+01  2.17E+01  2.29E+01  2.82E+01  3.93E-04  141

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.8944  2.58E-02  1.12E-02  6.46E-02
7.24E-02  8.24E-02  8.71E-02  1.04E-01  8.85E-04  141
 ERL FAT/TOTAL              0.3-1.6 km  0.0248  4.60E-06  0.00E+00  0.00E+00
0.00E+00  9.27E-05 NOT-FOUND  4.48E-04  5.71E-03   45
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  6.18E+04  3.64E+04  1.36E+05
1.99E+05  3.38E+05  3.61E+05  5.18E+05  1.71E-04  112

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.8944  3.18E-04  1.15E-04  9.24E-04
1.05E-03  1.23E-03  1.32E-03  1.69E-03  3.93E-04  141
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.82E-03  2.55E-03  4.60E-03
5.31E-03  6.66E-03  7.10E-03  8.52E-03  5.71E-05   36
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:08:16    PAGE  11          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.66E+03  2.60E+03  1.38E+04
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1.88E+04  2.73E+04 NOT-FOUND  2.81E+04  8.59E-03   96
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.65E+02  2.43E+02  3.65E+02
4.07E+02  5.06E+02  5.22E+02  6.54E+02  2.95E-05  142

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.25E+05  5.88E+04  3.51E+05
4.43E+05  6.09E+05 NOT-FOUND  6.24E+05  8.59E-03   96

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.78E-04  3.32E-04  5.47E-04
5.96E-04  7.04E-04  7.15E-04  8.24E-04  8.60E-06   54

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.25E+05  5.88E+04  3.51E+05
4.43E+05  6.09E+05 NOT-FOUND  6.24E+05  8.59E-03   96
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.15E+05  4.90E+04  3.02E+05
3.72E+05  5.65E+05 NOT-FOUND  5.82E+05  8.59E-03   96
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.48E+02  3.81E+02  7.63E+02
8.37E+02  1.01E+03  1.03E+03  1.14E+03  7.95E-05  113
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.07E+05  4.51E+04  2.69E+05
3.33E+05  4.94E+05 NOT-FOUND  5.39E+05  8.59E-03   96
 LONG-TERM RESUSPENSION DOSE            1.0000  8.59E+03  3.43E+03  2.32E+04
2.88E+04  3.38E+04  3.58E+04  4.35E+04  4.57E-04   62
 WATER INGESTION DOSE                   1.0000  2.67E+02  2.39E+02  4.18E+02
5.02E+02  6.79E+02  7.14E+02  8.48E+02  5.71E-05   57
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  9.50E+03  6.03E+03  1.93E+04
2.93E+04  5.01E+04  5.45E+04  1.31E+05  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  6.68E+00  2.90E+00  1.93E+01
2.24E+01  2.99E+01  3.15E+01  3.98E+01  1.82E-04    1
 INGESTION OF GRAINS                    1.0000  4.67E+00  1.03E+00  1.53E+01
2.08E+01  2.66E+01  2.96E+01  3.53E+01  5.46E-05    5
 INGESTION OF LEAF VEG                  1.0000  1.14E+01  4.13E+00  2.87E+01
4.31E+01  9.24E+01  1.04E+02  1.38E+02  2.87E-04   63
 INGESTION OF ROOT CROPS                1.0000  7.03E+00  2.63E+00  2.29E+01
2.96E+01  3.34E+01  3.50E+01  4.76E+01  5.46E-05    5
 INGESTION OF FRUITS                    1.0000  1.06E+01  4.21E+00  3.28E+01
3.95E+01  5.21E+01  5.42E+01  6.98E+01  5.46E-05    5
 INGESTION OF LEGUMES                   1.0000  8.60E+00  3.88E+00  2.28E+01
2.81E+01  3.25E+01  3.38E+01  4.40E+01  5.46E-05    5
 INGESTION OF BEEF                      1.0000  7.45E+01  3.22E+01  2.05E+02
2.52E+02  3.46E+02  3.81E+02  4.84E+02  8.85E-04  106
 INGESTION OF MILK                      1.0000  4.20E+01  1.36E+01  1.16E+02
1.63E+02  2.40E+02  2.67E+02  3.25E+02  8.85E-04  106
 INGESTION OF POULTRY                   1.0000  1.69E+01  8.49E+00  4.16E+01
5.44E+01  7.99E+01  8.87E+01  1.20E+02  2.87E-04   63
 INGESTION OF OTHER MEAT CROPS          1.0000  5.75E+00  2.56E+00  1.46E+01
2.05E+01  3.04E+01  3.14E+01  3.79E+01  8.56E-05   66

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  4.97E+10  2.33E+10  1.40E+11
2.10E+11  2.48E+11  2.67E+11  4.36E+11  4.57E-04  138
 POP.-DEPENDENT COSTS                   1.0000  4.95E+10  2.32E+10  1.40E+11
2.10E+11  2.48E+11  2.67E+11  4.35E+11  4.57E-04  138
 FARM-DEPENDENT COSTS                   1.0000  1.71E+08  8.38E+07  4.80E+08
6.31E+08  8.42E+08  9.28E+08  1.34E+09  1.60E-03  138
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.18E+10  5.51E+09  2.91E+10
5.11E+10  7.02E+10  7.67E+10  1.24E+11  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.33E+07  6.13E+06  3.30E+07
3.67E+07  4.70E+07  5.57E+07  8.78E+07  1.60E-03  138
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.67E+10  1.53E+10  9.55E+10
1.22E+11  2.01E+11  2.20E+11  3.16E+11  4.57E-04  138
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.39E+08  5.29E+07  4.05E+08
5.20E+08  7.13E+08  8.53E+08  1.18E+09  1.60E-03  138
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 POP.-DEPENDENT CONDEMNATION COST       0.9961  9.87E+08  7.95E+08  1.89E+09
2.32E+09  3.22E+09  3.48E+09  5.57E+09  8.56E-05   57
 FARM-DEPENDENT CONDEMNATION COST       0.9961  3.02E+05  2.90E+05  5.91E+05
7.71E+05  1.09E+06  1.21E+06  1.78E+06  4.28E-04   36
 EMERGENCY PHASE COST                   1.0000  1.66E+07  1.11E+07  3.68E+07
5.51E+07  7.08E+07  7.19E+07  7.74E+07  1.67E-04  134
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:08:16    PAGE  12          PROB                            QUANTILES
                            PEAK      PEAK  PEAK
                                         NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  6.47E+05  5.66E+04  2.13E+06
2.76E+06  4.12E+06  4.82E+06  6.26E+06  1.14E-04  138
 CROP DISPOSAL COST                     1.0000  1.79E+07  1.16E+07  3.97E+07
5.04E+07  6.55E+07  7.23E+07  9.89E+07  3.42E-04  138
XXXX
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  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:08:16    PAGE  14          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0374  2.56E-03  0.00E+00  0.00E+00
0.00E+00  1.04E-01  1.59E-01  1.92E-01  3.68E-03  118
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.94E+02  4.57E+02  1.29E+03
1.82E+03  2.22E+03  2.34E+03  3.23E+03  1.71E-04  112
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.95E+02  1.67E+02  3.12E+02
3.35E+02  3.95E+02  4.23E+02  5.57E+02  5.71E-05   36
 ERL FAT/TOTAL               0-16.1 km  0.0374  2.56E-03  0.00E+00  0.00E+00
0.00E+00  1.04E-01  1.59E-01  1.92E-01  3.68E-03  118

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0374  1.16E-05  0.00E+00  0.00E+00
0.00E+00  3.90E-04  4.99E-04  7.05E-04  4.97E-03  118
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.01E+04  7.09E+03  2.15E+04
3.01E+04  3.49E+04  3.71E+04  6.61E+04  1.71E-04  112

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0374  1.53E-07  0.00E+00  0.00E+00
0.00E+00  5.10E-06  6.44E-06  1.15E-05  3.68E-03  118
 CAN FAT/TOTAL               0-16.1 km  1.0000  5.00E-04  4.40E-04  8.21E-04
9.48E-04  1.08E-03  1.12E-03  1.43E-03  5.71E-05   36
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:08:16    PAGE  15          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.79E+03  1.21E+03  7.29E+03
1.02E+04  1.80E+04 NOT-FOUND  1.89E+04  8.59E-03   96
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.45E+02  1.22E+02  2.10E+02
2.24E+02  2.62E+02  2.80E+02  3.47E+02  8.60E-06   37

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  6.21E+04  2.74E+04  1.54E+05
2.61E+05  4.07E+05 NOT-FOUND  4.21E+05  8.59E-03   96

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.02E-04  3.00E-04  4.56E-04
5.06E-04  5.37E-04  5.51E-04  6.89E-04  1.23E-05   98

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  6.21E+04  2.74E+04  1.54E+05
2.61E+05  4.07E+05 NOT-FOUND  4.21E+05  8.59E-03   96
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  6.11E+04  2.62E+04  1.53E+05
2.61E+05  4.07E+05 NOT-FOUND  4.20E+05  8.59E-03   96
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.78E+02  1.21E+02  3.52E+02
4.16E+02  5.23E+02  5.43E+02  6.92E+02  5.71E-05   19
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.84E+04  2.48E+04  1.44E+05
2.45E+05  3.90E+05 NOT-FOUND  4.01E+05  8.59E-03   96
 LONG-TERM RESUSPENSION DOSE            1.0000  2.71E+03  1.14E+03  7.26E+03
1.02E+04  1.80E+04 NOT-FOUND  1.90E+04  8.59E-03   96
 WATER INGESTION DOSE                   1.0000  5.80E+01  5.38E+01  9.83E+01
1.06E+02  1.21E+02  1.29E+02  1.89E+02  5.71E-05   57
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  8.26E+02  6.96E+02  1.50E+03
1.94E+03  2.36E+03  2.54E+03  1.13E+04  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  5.18E-01  2.75E-01  1.15E+00
2.02E+00  2.98E+00  3.25E+00  5.20E+00  5.71E-05   57
 INGESTION OF GRAINS                    1.0000  3.79E+00  4.00E-01  1.24E+01
1.61E+01  2.25E+01  2.43E+01  3.52E+01  5.71E-05   19
 INGESTION OF LEAF VEG                  1.0000  7.44E+00  1.29E+00  2.04E+01
3.47E+01  7.52E+01  8.04E+01  9.76E+01  6.56E-04   61
 INGESTION OF ROOT CROPS                1.0000  5.12E+00  8.70E-01  2.01E+01
2.20E+01  2.70E+01  2.95E+01  4.62E+01  5.71E-05   19
 INGESTION OF FRUITS                    1.0000  7.77E+00  1.73E+00  2.90E+01
3.29E+01  4.16E+01  4.61E+01  6.79E+01  5.71E-05   19
 INGESTION OF LEGUMES                   1.0000  4.76E+00  1.32E+00  1.44E+01
2.02E+01  2.40E+01  2.59E+01  3.94E+01  5.71E-05   19
 INGESTION OF BEEF                      1.0000  4.53E+01  2.10E+01  1.13E+02
1.37E+02  2.03E+02  2.13E+02  2.91E+02  5.71E-05   19
 INGESTION OF MILK                      1.0000  2.95E+01  1.45E+01  7.38E+01
9.05E+01  1.32E+02  1.53E+02  2.25E+02  4.00E-04  112
 INGESTION OF POULTRY                   1.0000  1.23E+01  4.81E+00  2.90E+01
4.46E+01  1.00E+02  1.03E+02  1.10E+02  6.56E-04   61
 INGESTION OF OTHER MEAT CROPS          1.0000  3.59E+00  1.70E+00  9.50E+00
1.08E+01  1.34E+01  1.46E+01  1.91E+01  6.56E-04   61

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.88E+09  3.62E+09  1.15E+10
1.65E+10  3.46E+10  3.81E+10  1.67E+11  1.71E-04  112
 POP.-DEPENDENT COSTS                   1.0000  5.80E+09  3.50E+09  1.14E+10
1.64E+10  3.46E+10  3.81E+10  1.67E+11  1.71E-04  112
 FARM-DEPENDENT COSTS                   1.0000  7.23E+07  2.18E+07  2.34E+08
3.07E+08  4.05E+08  4.56E+08  8.98E+08  8.56E-05  138
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.34E+09  8.18E+08  3.20E+09
4.53E+09  7.88E+09  8.54E+09  3.58E+10  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.12E+06  6.85E+05  6.48E+06
8.62E+06  1.08E+07  1.13E+07  1.81E+07  3.44E-06  149
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.37E+09  2.77E+09  9.95E+09
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1.46E+10 2.30E+10 2.52E+10 1.32E+11 1.71E-04 112
 FARM-DEPENDENT INTERDICTION COST 1.0000 6.11E+07 1.22E+07 2.23E+08
2.90E+08 3.96E+08 4.50E+08 8.42E+08 8.56E-05 138
 POP.-DEPENDENT CONDEMNATION COST 0.9760 1.01E+08 1.04E+08 2.17E+08
3.06E+08 3.86E+08 4.27E+08 1.05E+09 2.85E-05 128
 FARM-DEPENDENT CONDEMNATION COST 0.9655 2.73E+04 8.11E+03 7.52E+04
7.98E+04 9.17E+04 9.73E+04 2.90E+05 2.85E-05   45
 EMERGENCY PHASE COST 1.0000 1.98E+06 1.61E+06 3.77E+06
5.01E+06 6.77E+06 7.34E+06 1.24E+07 2.85E-05   57
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0

PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($) 0-80.5 km
 MILK DISPOSAL COST 1.0000 3.73E+05 2.67E+04 1.25E+06
1.66E+06 3.09E+06 3.33E+06 5.70E+06 1.14E-04 138
 CROP DISPOSAL COST 1.0000 8.67E+06 4.14E+06 2.21E+07
2.99E+07 4.07E+07 4.65E+07 8.17E+07 3.42E-04 138
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1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:08:16    PAGE  18          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.3455  2.99E-01  0.00E+00  1.06E+00
1.69E+00 NOT-FOUND NOT-FOUND  3.59E+00  3.59E-02   31
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.62E+03  1.18E+03  3.22E+03
4.32E+03  6.14E+03  6.88E+03  9.11E+03  1.34E-03  118
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.79E+02  4.28E+02  8.10E+02
9.56E+02  1.12E+03 NOT-FOUND  1.18E+03  5.17E-03   31
 ERL FAT/TOTAL               0-16.1 km  0.3455  2.99E-01  0.00E+00  1.06E+00
1.69E+00 NOT-FOUND NOT-FOUND  3.59E+00  3.59E-02   31

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.3455  1.34E-03  0.00E+00  3.61E-03
6.95E-03 NOT-FOUND NOT-FOUND  1.32E-02  4.90E-02   31
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.49E+04  2.64E+04  7.45E+04
9.92E+04  1.36E+05  1.55E+05  2.16E+05  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.3455  1.80E-05  0.00E+00  7.08E-05
9.18E-05 NOT-FOUND NOT-FOUND  2.15E-04  3.59E-02   31
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.23E-03  1.08E-03  2.06E-03
2.25E-03  2.76E-03 NOT-FOUND  3.02E-03  5.17E-03   31
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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                                          PROB                                QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  5.01E+03  2.40E+03  1.18E+04
1.43E+04  2.06E+04  2.16E+04  2.81E+04  1.32E-04   41
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.39E+02  2.16E+02  3.23E+02
3.41E+02  3.88E+02  4.10E+02  7.01E+02  5.84E-06   48

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.12E+05  5.13E+04  3.03E+05
3.44E+05  4.63E+05  5.08E+05  6.29E+05  1.32E-04   41

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.13E-04  3.64E-04  6.30E-04
7.06E-04  7.61E-04  7.86E-04  1.29E-03  5.84E-06   48

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.12E+05  5.13E+04  3.03E+05
3.44E+05  4.63E+05  5.08E+05  6.29E+05  1.32E-04   41
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.07E+05  4.60E+04  3.01E+05
3.42E+05  4.62E+05  5.07E+05  6.15E+05  1.32E-04   41
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.50E+02  4.00E+02  7.32E+02
7.72E+02  8.74E+02  9.22E+02  1.09E+03  4.77E-05  140
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.05E+05  4.49E+04  3.01E+05
3.41E+05  4.57E+05  5.05E+05  6.01E+05  1.32E-04   41
 LONG-TERM RESUSPENSION DOSE            1.0000  2.35E+03  9.63E+02  6.83E+03
7.94E+03  1.03E+04  1.08E+04  1.39E+04  1.32E-04   41
 WATER INGESTION DOSE                   1.0000  3.82E+02  3.36E+02  7.07E+02
7.45E+02  8.44E+02  8.90E+02  1.01E+03  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.72E+03  3.45E+03  1.00E+04
1.20E+04  1.81E+04  2.21E+04  3.72E+04  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.97E+00  2.08E+00  1.05E+01
1.19E+01  1.58E+01  1.79E+01  2.56E+01  4.39E-05    2
 INGESTION OF GRAINS                    1.0000  1.93E+00  6.99E-01  6.73E+00
8.15E+00  1.04E+01  1.08E+01  1.46E+01  1.23E-05   20
 INGESTION OF LEAF VEG                  1.0000  3.73E+00  1.74E+00  1.05E+01
1.27E+01  1.94E+01  2.11E+01  3.24E+01  8.56E-05   62
 INGESTION OF ROOT CROPS                1.0000  2.89E+00  1.20E+00  9.31E+00
1.05E+01  1.21E+01  1.29E+01  1.96E+01  4.05E-05  130
 INGESTION OF FRUITS                    1.0000  5.60E+00  2.70E+00  1.31E+01
1.77E+01  2.13E+01  2.19E+01  2.97E+01  6.74E-06   20
 INGESTION OF LEGUMES                   1.0000  3.43E+00  1.70E+00  9.90E+00
1.04E+01  1.15E+01  1.19E+01  1.77E+01  6.74E-06   20
 INGESTION OF BEEF                      1.0000  2.45E+01  8.84E+00  6.65E+01
9.54E+01  1.15E+02  1.23E+02  1.81E+02  8.56E-05  107
 INGESTION OF MILK                      1.0000  1.60E+01  5.41E+00  4.79E+01
6.78E+01  1.06E+02  1.11E+02  1.53E+02  8.56E-05  107
 INGESTION OF POULTRY                   1.0000  5.98E+00  3.16E+00  1.27E+01
1.51E+01  2.27E+01  2.71E+01  4.07E+01  8.56E-05   62
 INGESTION OF OTHER MEAT CROPS          1.0000  3.87E+00  1.35E+00  1.15E+01
1.48E+01  2.07E+01  2.13E+01  2.71E+01  2.21E-05   85

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  4.09E+10  2.13E+10  9.52E+10
2.01E+11  2.24E+11  2.36E+11  3.23E+11  1.57E-04    2
 POP.-DEPENDENT COSTS                   1.0000  4.07E+10  2.13E+10  9.51E+10
2.01E+11  2.24E+11  2.36E+11  3.23E+11  1.57E-04    2
 FARM-DEPENDENT COSTS                   1.0000  2.22E+08  1.26E+08  6.28E+08
7.20E+08  7.88E+08  8.20E+08  1.04E+09  9.63E-06    9
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  9.49E+09  4.72E+09  2.41E+10
3.76E+10  6.08E+10  6.90E+10  9.29E+10  1.57E-04    2
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 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.17E+07  5.03E+06  3.08E+07
3.36E+07  4.11E+07  4.48E+07  5.92E+07  4.91E-05    2
 POP.-DEPENDENT INTERDICTION COST       1.0000  2.98E+10  1.31E+10  6.80E+10
1.11E+11  1.57E+11  1.82E+11  2.29E+11  1.57E-04    2
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.81E+08  6.85E+07  5.38E+08
6.41E+08  7.38E+08  7.60E+08  9.54E+08  2.21E-05  134
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.43E+09  1.16E+09  2.90E+09
3.23E+09  3.90E+09  4.24E+09  5.78E+09  5.84E-06  119
 FARM-DEPENDENT CONDEMNATION COST       1.0000  4.90E+05  3.78E+05  1.03E+06
1.15E+06  1.50E+06  1.69E+06  1.90E+06  2.47E-03   35
 EMERGENCY PHASE COST                   1.0000  8.44E+06  7.75E+06  1.18E+07
1.31E+07  1.68E+07  1.87E+07  2.09E+07  9.53E-06    5
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:08:16    PAGE  20          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  8.77E+05  1.57E+05  2.51E+06
3.16E+06  4.65E+06  5.08E+06  6.26E+06  3.70E-05   41
 CROP DISPOSAL COST                     1.0000  2.78E+07  2.31E+07  5.23E+07
5.63E+07  6.67E+07  7.05E+07  8.38E+07  1.23E-05   41
XXXX
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 CAN FAT/TOTAL                0-16.1 km  1.0000  7.73E-04  7.17E-04  1.06E-03
1.12E-03  1.26E-03  1.32E-03  1.78E-03  8.56E-05   12
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:08:16    PAGE  22          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-80.5 km  1.0000  4.34E+02  3.63E+02  8.33E+02
1.06E+03  1.40E+03  1.59E+03  2.14E+03  1.34E-03  118
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.78E+02  1.47E+02  3.04E+02
3.14E+02  3.40E+02  3.52E+02  4.28E+02  8.56E-05   12
 ERL FAT/TOTAL                0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  7.88E+03  7.02E+03  1.65E+04
2.09E+04  2.71E+04  3.06E+04  4.31E+04  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-16.1 km  1.0000  4.56E-04  4.01E-04  7.71E-04
8.67E-04  1.01E-03  1.02E-03  1.10E-03  8.56E-05   12
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE
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13-NOV-09  15:08:16    PAGE  23          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.39E+03  1.16E+03  6.09E+03
8.71E+03  1.13E+04  1.21E+04  1.66E+04  1.57E-04    2
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.51E+02  1.27E+02  2.13E+02
2.28E+02  2.68E+02  2.88E+02  3.47E+02  5.84E-06   48

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.32E+04  2.58E+04  1.36E+05
2.01E+05  3.02E+05  3.13E+05  3.70E+05  1.57E-04    2

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.16E-04  3.05E-04  4.95E-04
5.12E-04  5.44E-04  5.58E-04  7.73E-04  5.84E-06   48

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  5.32E+04  2.58E+04  1.36E+05
2.01E+05  3.02E+05  3.13E+05  3.70E+05  1.57E-04    2
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  5.23E+04  2.44E+04  1.36E+05
2.01E+05  3.02E+05  3.12E+05  3.67E+05  1.57E-04    2
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.59E+02  1.20E+02  3.04E+02
3.21E+02  3.64E+02  3.84E+02  4.58E+02  5.25E-04   63
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.02E+04  2.36E+04  1.26E+05
1.81E+05  3.02E+05  3.10E+05  3.52E+05  1.57E-04    2
 LONG-TERM RESUSPENSION DOSE            1.0000  2.04E+03  9.40E+02  5.24E+03
7.79E+03  1.07E+04  1.12E+04  1.44E+04  1.57E-04    2
 WATER INGESTION DOSE                   1.0000  7.21E+01  6.47E+01  1.11E+02
1.20E+02  1.46E+02  1.59E+02  1.91E+02  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.99E+02  6.78E+02  1.31E+03
1.56E+03  2.14E+03  2.31E+03  4.94E+03  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  5.32E-01  3.42E-01  1.09E+00
1.59E+00  2.66E+00  3.03E+00  4.02E+00  2.86E-05  141
 INGESTION OF GRAINS                    1.0000  2.39E+00  2.80E-01  8.66E+00
1.06E+01  1.34E+01  1.48E+01  2.36E+01  2.28E-04   36
 INGESTION OF LEAF VEG                  1.0000  4.44E+00  1.04E+00  1.32E+01
1.96E+01  3.64E+01  4.17E+01  5.89E+01  5.25E-04   63
 INGESTION OF ROOT CROPS                1.0000  3.27E+00  6.21E-01  1.07E+01
1.20E+01  1.56E+01  1.75E+01  3.10E+01  2.28E-04   36
 INGESTION OF FRUITS                    1.0000  5.09E+00  1.34E+00  1.63E+01
2.09E+01  2.52E+01  2.73E+01  4.58E+01  2.28E-04   36
 INGESTION OF LEGUMES                   1.0000  3.12E+00  1.06E+00  1.04E+01
1.15E+01  1.44E+01  1.59E+01  2.68E+01  2.28E-04   36
 INGESTION OF BEEF                      1.0000  3.30E+01  1.58E+01  8.53E+01
1.03E+02  1.23E+02  1.33E+02  1.75E+02  4.00E-04  112
 INGESTION OF MILK                      1.0000  2.39E+01  1.13E+01  6.63E+01
8.20E+01  1.06E+02  1.12E+02  1.35E+02  4.00E-04  112
 INGESTION OF POULTRY                   1.0000  7.98E+00  3.44E+00  1.98E+01
2.63E+01  4.67E+01  5.31E+01  7.03E+01  5.25E-04   63
 INGESTION OF OTHER MEAT CROPS          1.0000  3.62E+00  1.61E+00  1.04E+01
1.14E+01  1.43E+01  1.57E+01  2.00E+01  8.85E-04   88

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.84E+09  4.58E+09  1.04E+10
1.47E+10  3.28E+10  3.61E+10  1.24E+11  4.57E-04  138
 POP.-DEPENDENT COSTS                   1.0000  5.76E+09  4.48E+09  1.04E+10
1.47E+10  3.28E+10  3.61E+10  1.24E+11  4.57E-04  138
 FARM-DEPENDENT COSTS                   1.0000  8.33E+07  3.22E+07  2.97E+08
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3.30E+08  4.12E+08  4.54E+08  5.76E+08  4.14E-05   41
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.32E+09  1.01E+09  2.88E+09
3.91E+09  7.56E+09  8.20E+09  2.65E+10  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.23E+06  1.04E+06  6.22E+06
8.15E+06  1.09E+07  1.15E+07  1.84E+07  1.75E-05   48
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.25E+09  3.19E+09  7.34E+09
1.16E+10  2.19E+10  2.41E+10  9.69E+10  4.57E-04  138
 FARM-DEPENDENT INTERDICTION COST       1.0000  7.02E+07  1.70E+07  2.59E+08
3.12E+08  3.64E+08  3.89E+08  5.22E+08  4.14E-05   41
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.86E+08  1.24E+08  3.86E+08
4.66E+08  1.02E+09 NOT-FOUND  1.05E+09  5.34E-03   31
 FARM-DEPENDENT CONDEMNATION COST       1.0000  5.06E+04  3.88E+04  9.30E+04
1.35E+05 NOT-FOUND NOT-FOUND  2.90E+05  1.07E-02   31
 EMERGENCY PHASE COST                   1.0000  1.72E+06  1.32E+06  3.51E+06
4.98E+06  5.28E+06  5.41E+06  6.83E+06  5.84E-06  119
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:08:16    PAGE  24          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  4.49E+05  3.23E+04  1.33E+06
1.81E+06  3.24E+06  3.51E+06  5.60E+06  3.70E-05   41
 CROP DISPOSAL COST                     1.0000  1.04E+07  5.49E+06  2.68E+07
3.20E+07  4.07E+07  4.51E+07  6.37E+07  6.60E-06  134
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XXXX

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4.06E+04  6.22E+04  7.14E+04  1.00E+05  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.80E-04  2.51E-04  4.14E-04
4.91E-04  5.28E-04  5.41E-04  6.87E-04  5.84E-06   48
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:08:16    PAGE  26          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-80.5 km  1.0000  7.57E+01  6.95E+01  1.35E+02
1.66E+02  2.34E+02  2.60E+02  3.66E+02  1.34E-03  118
 CAN FAT/TOTAL                0-16.1 km  1.0000  3.22E+01  3.02E+01  5.66E+01
7.01E+01  7.22E+01  7.32E+01  8.29E+01  7.07E-06   38
 ERL FAT/TOTAL                0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.60E+03  1.21E+03  2.85E+03
3.46E+03  5.19E+03  5.75E+03  7.97E+03  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-16.1 km  1.0000  8.24E-05  7.52E-05  1.17E-04
1.31E-04  1.70E-04  1.90E-04  2.12E-04  7.07E-06   38
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  7 OF  8:
    LATE LOW
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RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:08:16    PAGE  27          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.93E+02  3.76E+02  1.33E+03
1.80E+03  2.61E+03  2.99E+03  4.18E+03  4.57E-04  138
 CAN FAT/TOTAL               0-16.1 km  1.0000  8.20E+01  7.53E+01  1.11E+02
1.18E+02  1.38E+02  1.48E+02  2.43E+02  5.84E-06   48

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.33E+04  9.03E+03  2.97E+04
3.89E+04  6.05E+04  6.94E+04  9.37E+04  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.98E-04  1.76E-04  3.06E-04
3.23E-04  3.68E-04  3.89E-04  6.10E-04  5.84E-06   48

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.33E+04  9.03E+03  2.97E+04
3.89E+04  6.05E+04  6.94E+04  9.37E+04  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.31E+04  8.75E+03  2.97E+04
3.89E+04  6.05E+04  6.94E+04  9.36E+04  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  7.73E+01  3.65E+01  2.13E+02
2.95E+02  3.33E+02  3.48E+02  4.81E+02  3.70E-05   41
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.26E+04  8.37E+03  2.84E+04
3.61E+04  5.82E+04  6.92E+04  8.95E+04  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  5.72E+02  3.63E+02  1.25E+03
1.63E+03  2.54E+03  2.98E+03  4.11E+03  4.57E-04  138
 WATER INGESTION DOSE                   1.0000  1.46E+01  1.22E+01  2.51E+01
2.99E+01  3.32E+01  3.47E+01  3.82E+01  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  8.78E+01  7.83E+01  1.49E+02
1.88E+02  2.21E+02  2.32E+02  2.94E+02  1.61E-04   80
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.80E-02  2.81E-02  7.72E-02
9.01E-02  1.42E-01  1.75E-01  3.05E-01  1.63E-05  119
 INGESTION OF GRAINS                    1.0000  2.29E+00  1.54E-01  8.98E+00
1.07E+01  1.32E+01  1.45E+01  2.28E+01  3.70E-05   41
 INGESTION OF LEAF VEG                  1.0000  4.30E+00  5.36E-01  1.21E+01
1.83E+01  5.14E+01  5.51E+01  6.75E+01  6.56E-04   61
 INGESTION OF ROOT CROPS                1.0000  3.11E+00  4.03E-01  1.09E+01
1.34E+01  2.03E+01  2.13E+01  2.99E+01  3.70E-05   41
 INGESTION OF FRUITS                    1.0000  4.52E+00  5.29E-01  1.64E+01
2.17E+01  2.92E+01  3.12E+01  4.39E+01  3.70E-05   41
 INGESTION OF LEGUMES                   1.0000  2.80E+00  5.63E-01  1.01E+01
1.13E+01  1.46E+01  1.63E+01  2.58E+01  3.70E-05   41
 INGESTION OF BEEF                      1.0000  2.25E+01  7.61E+00  6.96E+01
9.88E+01  1.12E+02  1.18E+02  1.64E+02  4.91E-05    2
 INGESTION OF MILK                      1.0000  1.51E+01  5.46E+00  4.18E+01
5.58E+01  7.41E+01  7.75E+01  1.04E+02  2.21E-05  134
 INGESTION OF POULTRY                   1.0000  6.63E+00  1.85E+00  1.81E+01
2.76E+01  7.14E+01  7.52E+01  8.77E+01  6.56E-04   61
 INGESTION OF OTHER MEAT CROPS          1.0000  1.52E+00  5.07E-01  3.37E+00
4.71E+00  1.09E+01  1.19E+01  1.55E+01  6.56E-04   61

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  7.46E+08  6.73E+08  1.08E+09
1.15E+09  1.32E+09  1.41E+09  2.11E+09  3.69E-06  140
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 POP.-DEPENDENT COSTS                    1.0000  7.30E+08  6.49E+08  1.07E+09
1.13E+09  1.29E+09  1.36E+09  2.09E+09  3.69E-06  140
 FARM-DEPENDENT COSTS                    1.0000  1.63E+07  3.12E+06  5.76E+07
7.93E+07  1.09E+08  1.15E+08  1.85E+08  1.75E-05   48
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.78E+08  1.50E+08  3.04E+08
3.15E+08  3.40E+08  3.52E+08  5.10E+08  3.69E-06  140
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  2.23E+05  1.20E+05  4.63E+05
7.87E+05  1.04E+06  1.08E+06  1.42E+06  1.63E-05  119
 POP.-DEPENDENT INTERDICTION COST        1.0000  5.32E+08  4.60E+08  9.76E+08
1.02E+09  1.09E+09  1.12E+09  1.46E+09  3.69E-06  140
 FARM-DEPENDENT INTERDICTION COST        1.0000  1.41E+07  2.29E+06  5.31E+07
7.51E+07  1.18E+08  1.37E+08  1.74E+08  1.60E-03  138
 POP.-DEPENDENT CONDEMNATION COST        0.9366  1.97E+07  5.27E+06  1.01E+08
1.09E+08 NOT-FOUND NOT-FOUND  1.25E+08  1.31E-02   14
 FARM-DEPENDENT CONDEMNATION COST        0.9366  1.41E+04  3.99E+03  6.75E+04
7.37E+04 NOT-FOUND NOT-FOUND  7.73E+04  2.70E-02   14
 EMERGENCY PHASE COST                    1.0000  1.90E+05  1.11E+05  4.87E+05
6.90E+05  1.04E+06 NOT-FOUND  1.13E+06  5.17E-03   31
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:08:16    PAGE  28          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  1.13E+05  7.21E+03  4.36E+05
5.95E+05  1.13E+06  1.24E+06  2.63E+06  4.39E-05    2
 CROP DISPOSAL COST                      1.0000  1.85E+06  5.03E+05  5.41E+06
6.52E+06  1.04E+07  1.11E+07  1.86E+07  1.75E-05   48
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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.28E+04  9.26E+03  2.83E+04
3.55E+04  5.40E+04  6.07E+04  8.52E+04  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.47E-04  2.24E-04  3.32E-04
3.55E-04  4.14E-04  4.42E-04  6.14E-04  5.84E-06   48
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:08:16    PAGE  30          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.12E+01  4.73E+01  9.17E+01
1.08E+02  1.47E+02  1.68E+02  2.51E+02  1.34E-03  118
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.14E+01  1.96E+01  3.47E+01
4.01E+01  5.08E+01  5.18E+01  5.52E+01  5.71E-04   58
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.13E+03  1.01E+03  2.07E+03
2.67E+03  3.66E+03  4.08E+03  5.64E+03  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  5.49E-05  5.03E-05  1.00E-04
1.05E-04  1.17E-04  1.22E-04  1.41E-04  5.71E-04   58
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:08:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
```

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SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:08:16    PAGE  31          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.19E+02  3.42E+02  1.13E+03
1.43E+03  2.24E+03  2.56E+03  3.60E+03  4.57E-04  138
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.91E+01  7.37E+01  1.09E+02
1.16E+02  1.33E+02  1.42E+02  2.24E+02  5.84E-06   48

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.16E+04  7.93E+03  2.66E+04
3.42E+04  5.31E+04  5.97E+04  8.08E+04  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.93E-04  1.68E-04  3.02E-04
3.14E-04  3.43E-04  3.57E-04  5.64E-04  5.84E-06   48

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.16E+04  7.93E+03  2.66E+04
3.42E+04  5.31E+04  5.97E+04  8.08E+04  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.15E+04  7.78E+03  2.64E+04
3.42E+04  5.31E+04  5.97E+04  8.08E+04  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  7.55E+01  3.05E+01  2.15E+02
2.91E+02  4.92E+02  5.08E+02  5.33E+02  6.56E-04   61
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.12E+04  7.61E+03  2.55E+04
3.29E+04  4.84E+04  5.67E+04  7.85E+04  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  3.16E+02  2.09E+02  7.13E+02
1.00E+03  1.41E+03  1.64E+03  2.24E+03  4.57E-04  138
 WATER INGESTION DOSE                   1.0000  1.22E+01  1.07E+01  2.07E+01
2.20E+01  2.53E+01  2.69E+01  3.21E+01  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.15E+01  6.25E+01  1.14E+02
1.28E+02  1.70E+02  1.92E+02  2.35E+02  1.04E-05   38
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.23E-02  2.54E-02  6.45E-02
7.75E-02  1.06E-01  1.14E-01  2.08E-01  1.63E-05  119
 INGESTION OF GRAINS                    1.0000  2.38E+00  1.30E-01  9.17E+00
1.07E+01  1.29E+01  1.40E+01  2.46E+01  1.83E-05   48
 INGESTION OF LEAF VEG                  1.0000  4.32E+00  3.47E-01  1.25E+01
2.25E+01  6.72E+01  7.16E+01  7.70E+01  6.56E-04   61
 INGESTION OF ROOT CROPS                1.0000  3.18E+00  2.63E-01  1.16E+01
1.68E+01  2.15E+01  2.24E+01  3.23E+01  1.83E-05   48
 INGESTION OF FRUITS                    1.0000  4.69E+00  4.59E-01  1.78E+01
2.58E+01  3.24E+01  3.38E+01  4.75E+01  1.83E-05   48
 INGESTION OF LEGUMES                   1.0000  2.78E+00  3.78E-01  1.00E+01
1.32E+01  2.06E+01  2.13E+01  2.77E+01  1.83E-05   48
 INGESTION OF BEEF                      1.0000  2.27E+01  7.08E+00  7.07E+01
9.86E+01  1.10E+02  1.15E+02  1.63E+02  1.83E-05   48
 INGESTION OF MILK                      1.0000  1.48E+01  5.14E+00  4.39E+01
5.75E+01  7.76E+01  8.36E+01  1.27E+02  7.70E-06  146
 INGESTION OF POULTRY                   1.0000  6.96E+00  1.79E+00  1.78E+01
3.32E+01  7.78E+01  9.48E+01  1.06E+02  6.56E-04   61
 INGESTION OF OTHER MEAT CROPS          1.0000  1.43E+00  4.63E-01  3.31E+00
5.47E+00  1.10E+01  1.24E+01  1.76E+01  6.56E-04   61
```

```
ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  6.53E+08  5.86E+08  1.03E+09
1.07E+09  1.18E+09  1.23E+09  1.81E+09  7.07E-06   38
 POP.-DEPENDENT COSTS                    1.0000  6.41E+08  5.65E+08  1.03E+09
1.07E+09  1.18E+09  1.23E+09  1.80E+09  7.07E-06   38
 FARM-DEPENDENT COSTS                    1.0000  1.18E+07  2.53E+06  3.92E+07
5.60E+07  1.03E+08  1.09E+08  1.59E+08  4.70E-05    2
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.57E+08  1.33E+08  2.95E+08
3.09E+08  3.34E+08  3.45E+08  4.42E+08  2.61E-05   25
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.92E+05  9.80E+04  4.19E+05
7.01E+05  9.66E+05  1.02E+06  1.25E+06  1.63E-05  119
 POP.-DEPENDENT INTERDICTION COST        1.0000  4.73E+08  4.16E+08  8.62E+08
1.00E+09  1.06E+09  1.08E+09  1.34E+09  7.07E-06   38
 FARM-DEPENDENT INTERDICTION COST        1.0000  1.02E+07  1.75E+06  3.26E+07
5.08E+07  1.01E+08  1.06E+08  1.46E+08  4.70E-05    2
 POP.-DEPENDENT CONDEMNATION COST        0.9295  1.10E+07  4.54E+06  1.49E+07
1.84E+07  1.16E+08 NOT-FOUND  1.25E+08  5.23E-03   31
 FARM-DEPENDENT CONDEMNATION COST        0.8160  1.92E+03  2.04E+03  2.49E+03
2.71E+03 NOT-FOUND NOT-FOUND  8.49E+03  1.14E-02    4
 EMERGENCY PHASE COST                    0.9997  7.59E+04  1.69E+04  1.78E+05
3.11E+05 NOT-FOUND NOT-FOUND  4.97E+05  1.05E-02   31
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:08:16    PAGE  32          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  8.98E+04  3.31E+03  3.53E+05
5.37E+05  1.19E+06  1.46E+06  1.96E+06  1.81E-03    2
 CROP DISPOSAL COST                      1.0000  1.30E+06  3.97E+05  3.44E+06
4.96E+06  6.31E+06  6.98E+06  1.14E+07  4.70E-05    2

Successful completion of MACCS2 was achieved!
This job required a total of     24.828 CPU seconds

   Input processing required      0.387 CPU seconds
         Simulation required     23.922 CPU seconds
  Output processing required      0.520 CPU seconds
```

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MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised 1/8/04, K. McFadden
P1:  ATMOS USER INPUT (UNIT 24) = atmbi2NS.INP


P2:  EARLY USER INPUT (UNIT 25) = earbi-noE.INP


P3: CHRONC USER INPUT (UNIT 26) = chrbiEC.INP


P4:  METEOROLOGY DATA (UNIT 28) = meti03.INP


P5:   SITE DATA INPUT (UNIT 29) = siteiEC.INP


P6:       LIST OUTPUT (UNIT 06) = conbi2NS-noE-Nmet03EC.OUT




USER INPUT IS READ FROM UNIT 24
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT

       *

    1  RIATNAM1001 'ATMOS INPUT FOR IPEC CALCULATIONS'

*******************************************************************************

       * GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/

       *

       * NUMBER OF RADIAL SPATIAL ELEMENTS

       *

    2  GENUMRAD001  15

       *

       *

       *

    3  GESPAEND001     0.32      1.61      3.22      4.83      6.44
```

```
  4  GESPAEND002     8.05      9.66     11.27     12.87     14.48
  5  GESPAEND003    16.09     32.19     48.28     64.37     80.47

*******************************************************************************
     * NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
     *
     * Number of pseudo-stable nuclides (used to truncate the decay chains)
     *
  6  ISNUMSTB001      27
     *
     * List of pseudo-stable nuclides
     *
  7  ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
  8  ISNAMSTB002     Xe-131m  (daughter of I-131)
  9  ISNAMSTB003     Xe-133m  (daughter of I-133)
 10  ISNAMSTB004     Xe-135m  (daughter of I-135)
 11  ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
 12  ISNAMSTB006     Sm-147   (daughter of Pm-147)
 13  ISNAMSTB007     U-234    (daughter of Pu-238)
 14  ISNAMSTB008     U-235    (daughter of Pu-239)
 15  ISNAMSTB009     U-236    (daughter of Pu-240)
 16  ISNAMSTB010     U-237    (daughter of Pu-241)
 17  ISNAMSTB011     Np-237   (daughter of Am-241)
 18  ISNAMSTB012     Rb-87    (daughter of Kr-87)
 19  ISNAMSTB013     Ba-137m  (daughter of Cs-137)
 20  ISNAMSTB014     Rb-88    (daughter of Kr-88)
 21  ISNAMSTB015     Y-91m    (daughter of Sr-91)
 22  ISNAMSTB016     Zr-93    (daughter of Y-93)
 23  ISNAMSTB017     Nb-93m   (daughter of Zr-93)
 24  ISNAMSTB018     Nb-95m   (daughter of Zr-95)
 25  ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
 26  ISNAMSTB020     Nb-97m   (daughter of Zr-97)
```

```
ISNAMSTB021     Tc-99    (daughter of Mo-99)
ISNAMSTB022     Rh-103m  (daughter of Ru-103)
ISNAMSTB023     Rh-106   (daughter of Ru-106)
ISNAMSTB024    Te-131    (daughter of Te-131m)
ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026     Pr-144m  (daughter of Ce-144)
ISNAMSTB027     Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
*
ISDEPFLA001    .FALSE.   .FALSE.
ISDEPFLA002    .TRUE.    .TRUE.
ISDEPFLA003    .TRUE.    .TRUE.
ISDEPFLA004    .TRUE.    .TRUE.
ISDEPFLA005    .TRUE.    .TRUE.
ISDEPFLA006    .TRUE.    .TRUE.
ISDEPFLA007    .TRUE.    .TRUE.
ISDEPFLA008    .TRUE.    .TRUE.
ISDEPFLA009    .TRUE.    .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
```

```
*
*                NUCNAM    IGROUP
*
ISOTPGRP001      Co-58        6
ISOTPGRP002      Co-60        6
ISOTPGRP003      Kr-85        1
ISOTPGRP004      Kr-85m       1
ISOTPGRP005      Kr-87        1
ISOTPGRP006      Kr-88        1
ISOTPGRP007      Rb-86        3
ISOTPGRP008      Sr-89        5
ISOTPGRP009      Sr-90        5
ISOTPGRP010      Sr-91        5
ISOTPGRP011      Sr-92        5
ISOTPGRP012      Y-90         7
ISOTPGRP013      Y-91         7
ISOTPGRP014      Y-92         7
ISOTPGRP015      Y-93         7
ISOTPGRP016      Zr-95        7
ISOTPGRP017      Zr-97        7
ISOTPGRP018      Nb-95        7
ISOTPGRP019      Mo-99        6
ISOTPGRP020      Tc-99m       6
ISOTPGRP021      Ru-103       6
ISOTPGRP022      Ru-105       6
ISOTPGRP023      Ru-106       6
ISOTPGRP024      Rh-105       6
ISOTPGRP025      Sb-127       4
ISOTPGRP026      Sb-129       4
ISOTPGRP027      Te-127       4
ISOTPGRP028      Te-127m      4
ISOTPGRP029      Te-129       4
```

74	ISOTPGRP030	Te-129m	4
75	ISOTPGRP031	Te-131m	4
76	ISOTPGRP032	Te-132	4
77	ISOTPGRP033	I-131	2
78	ISOTPGRP034	I-132	2
79	ISOTPGRP035	I-133	2
80	ISOTPGRP036	I-134	2
81	ISOTPGRP037	I-135	2
82	ISOTPGRP038	Xe-133	1
83	ISOTPGRP039	Xe-135	1
84	ISOTPGRP040	Cs-134	3
85	ISOTPGRP041	Cs-136	3
86	ISOTPGRP042	Cs-137	3
87	ISOTPGRP043	Ba-139	9
88	ISOTPGRP044	Ba-140	9
89	ISOTPGRP045	La-140	7
90	ISOTPGRP046	La-141	7
91	ISOTPGRP047	La-142	7
92	ISOTPGRP048	Ce-141	8
93	ISOTPGRP049	Ce-143	8
94	ISOTPGRP050	Ce-144	8
95	ISOTPGRP051	Pr-143	7
96	ISOTPGRP052	Nd-147	7
97	ISOTPGRP053	Np-239	8
98	ISOTPGRP054	Pu-238	8
99	ISOTPGRP055	Pu-239	8
100	ISOTPGRP056	Pu-240	8
101	ISOTPGRP057	Pu-241	8
102	ISOTPGRP058	Am-241	7
103	ISOTPGRP059	Cm-242	7
104	ISOTPGRP060	Cm-244	7

```
*****************************************************************************
       * WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
       *
       * WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
       *
  105  WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
       *
       * WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
       *
  106  WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)

*****************************************************************************
       * DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
       *
       * NUMBER OF PARTICLE SIZE GROUPS
       *
  107  DDNPSGRP001   1
       *
       * DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
       *
  108  DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)

*****************************************************************************
       * DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/,
/DISPZ/
       *
       * # of distances in plume-size tables--which can be used as an alternative to
the power-law model:
       * (to utilize the power-law model, set NUM_DIST to zero or delete the
following data card)
       *
  109  NUM_DIST001   0
       *
       * SIGMA = A * X ** B
       *
```

```
      * Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km

      * as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).

      * P-G CLASS:          A            B            C            D            E
       F
  110  DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
    0.0722
  111  DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
    0.9031
  112  DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
    0.2
  113  DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
    0.6020
      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1

      *

  114  DPYSCALE001    1.

      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,

      *  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.

      *  (Z1 / Z0) ** 0.2,   FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27

      *

  115  DPZSCALE001    1.27

*****************************************************************************  *

      * EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/

      *

      * TIME BASE FOR EXPANSION FACTOR (SECONDS)

      *

  116  PMTIMBAS001    600.   (10 MINUTES)

      *

      * BREAK POINT FOR FORMULA CHANGE (SECONDS)

      *

  117  PMBRKPNT001   3600.   (1 HOUR)

      *

      * EXPONENTIAL EXPANSION FACTOR NUMBER 1

      *

  118  PMXPFAC1001      0.2
```

```
      *
      * EXPONENTIAL EXPANSION FACTOR NUMBER 2
      *
  119 PMXPFAC2001      0.25
*******************************************************************************
      * PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
      *
      * SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT
PLUME
      * (USED BY FUNCTION CAUGHT)
      *
  120 PRSCLCRW001   1.
      *
      * SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
      * (USED BY FUNCTION PLMRIS)
      *
  121 PRSCLADP001   1.
      *
      * SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
      * (USED BY FUNCTION PLMRIS)
      *
  122 PRSCLEFP001   1.
*******************************************************************************
      * RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
      ********************** RELEASE DATA BLOCK ************
      * SOURCE TERM NUMBER  1 OF 8
  123 RDATNAM2001 'NCF'
      *
      * TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
      * CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
      * PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
      *
```

```
124  RDOALARM001   1.66E+04
     *
     * NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
     *
125  RDNUMREL001          1
     *
     * SELECTION OF RISK DOMINANT PLUME
     *
126  RDMAXRIS001          1
     *
     * REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
     *
127  RDREFTIM001        0.5
     *
     * HEAT CONTENT OF THE RELEASE SEGMENTS (W)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
128  RDPLHEAT001   9.20E+05
     *
     * HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
129  RDPLHITE001        30.
     *
     * DURATION OF THE PLUME SEGMENTS (S)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
130  RDPLUDUR001   8.64E+04
     *
     * TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
```

```
*
RDPDELAY001   0.00E+00
*
* Initial value of sigma-y for each plume--Note: values required for each
plume
*
SIGYINIT001   9.9  (initial sigma-y = W/4.3 = 42.5/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each
plume
*
SIGZINIT001  31.1  (initial sigma-z = H/2.15 = 66.8/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   66.8
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
*
*               NUCNAM  CORINV (Bq)
*
RDCORINV001     Co-58    3.04E+16
```

145	RDCORINV002	Co-60	2.32E+16
146	RDCORINV003	Kr-85	3.84E+16
147	RDCORINV004	Kr-85m	8.48E+17
148	RDCORINV005	Kr-87	1.63E+18
149	RDCORINV006	Kr-88	2.29E+18
150	RDCORINV007	Rb-86	8.31E+15
151	RDCORINV008	Sr-89	3.08E+18
152	RDCORINV009	Sr-90	3.05E+17
153	RDCORINV010	Sr-91	3.87E+18
154	RDCORINV011	Sr-92	4.19E+18
155	RDCORINV012	Y-90	3.18E+17
156	RDCORINV013	Y-91	3.98E+18
157	RDCORINV014	Y-92	4.19E+18
158	RDCORINV015	Y-93	4.85E+18
159	RDCORINV016	Zr-95	5.38E+18
160	RDCORINV017	Zr-97	5.41E+18
161	RDCORINV018	Nb-95	5.45E+18
162	RDCORINV019	Mo-99	6.11E+18
163	RDCORINV020	Tc-99m	5.34E+18
164	RDCORINV021	Ru-103	4.89E+18
165	RDCORINV022	Ru-105	3.36E+18
166	RDCORINV023	Ru-106	1.71E+18
167	RDCORINV024	Rh-105	3.09E+18
168	RDCORINV025	Sb-127	3.47E+17
169	RDCORINV026	Sb-129	1.04E+18
170	RDCORINV027	Te-127	3.43E+17
171	RDCORINV028	Te-127m	4.50E+16
172	RDCORINV029	Te-129	1.02E+18
173	RDCORINV030	Te-129m	1.50E+17
174	RDCORINV031	Te-131m	4.64E+17
175	RDCORINV032	Te-132	4.57E+18

```
RDCORINV033     I-131    3.20E+18
RDCORINV034     I-132    4.64E+18
RDCORINV035     I-133    6.56E+18
RDCORINV036     I-134    7.19E+18
RDCORINV037     I-135    6.11E+18
RDCORINV038     Xe-133   6.28E+18
RDCORINV039     Xe-135   1.67E+18
RDCORINV040     Cs-134   7.19E+17
RDCORINV041     Cs-136   2.10E+17
RDCORINV042     Cs-137   4.15E+17
RDCORINV043     Ba-139   5.83E+18
RDCORINV044     Ba-140   5.62E+18
RDCORINV045     La-140   6.04E+18
RDCORINV046     La-141   5.34E+18
RDCORINV047     La-142   5.17E+18
RDCORINV048     Ce-141   5.31E+18
RDCORINV049     Ce-143   4.96E+18
RDCORINV050     Ce-144   4.19E+18
RDCORINV051     Pr-143   4.78E+18
RDCORINV052     Nd-147   2.13E+18
RDCORINV053     Np-239   6.56E+19
RDCORINV054     Pu-238   1.44E+16
RDCORINV055     Pu-239   1.22E+15
RDCORINV056     Pu-240   1.83E+15
RDCORINV057     Pu-241   4.12E+17
RDCORINV058     Am-241   4.92E+14
RDCORINV059     Cm-242   1.23E+17
RDCORINV060     Cm-244   1.33E+16
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*
```

```
  204  RDCORSCA001   1.0
       *
  205  RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
       *
       * RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
       *
       *  ISOTOPE GROUPS:
       *
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
  206  RDRELFRC001 9.3E-05 3.9E-06 1.6E-06 1.2E-06 3.7E-08 2.4E-07 2.1E-09 1.8E-08
1.1E-07
       *

*****************************************************************************
       * OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
       *
       * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
       *
  207  OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
       *
  208  OCIDEBUG001  0
       *
       * NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
       *
       *OCNUCOUT001  Cs-137
       *
       *              NUM0
  209  TYPE0NUMBER      0
       *
       *              INDREL   INDRAD
       *TYPE0OUT001      1        9
       *TYPE0OUT002      1       10         CCDF
```

```
*****************************************************************************
      * METEOROLOGICAL SAMPLING DATA BLOCK
      *
      * METEOROLOGICAL SAMPLING OPTION CODE:
      *
      * METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
      *          2, WEATHER CATEGORY BIN SAMPLING,
      *          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
      *          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
      *          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
      *
  210 M1METCOD001  2
      *
      * LAST SPATIAL INTERVAL FOR MEASURED WEATHER
      *
  211 M2LIMSPA001  15
      *
      * BOUNDARY WEATHER MIXING LAYER HEIGHT
      *
  212 M2BNDMXH001  1000.  (METERS)
      *
      * BOUNDARY WEATHER STABILITY CLASS INDEX
      *
  213 M2IBDSTB001  4      (D-STABILITY)
      *
      * BOUNDARY WEATHER RAIN RATE
      *
  214 M2BNDRAN001  0.     (MM/HR)
      *
      * BOUNDARY WEATHER WIND SPEED
      *
```

```
215  M2BNDWND001  5.     (M/S)
     *
     * NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
     *
216  M4NRNINT001  6
     *
     * ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
     *
     * NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
     *       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
     *
     *             2.0    4.0      7     10.0     20.0   40.0   MILES
     *
217  M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
     *
     * NUMBER OF RAIN INTENSITIY BREAKPOINTS
     *
218  M4NRINTN001   3
     *
     * RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
     *
219  M4RNRATE001   2.  4.  6.
     *
     * NUMBER OF SAMPLES PER BIN
     *
220  M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
     *
     * INITIAL SEED FOR RANDOM NUMBER GENERATOR
     *
221  M4IRSEED001   79
     .
```

```
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  449
NUMBER OF BLANK OR COMMENT RECORDS READ         =  227
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =  221
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =  221
*******************************************************************************
****************



Decay Chain #  Ba-139

Decay Chain #  Ba-140   La-140
Fraction of Ba-140  going to La-140  in this chain = 1.000000

Decay Chain #  Ce-143   Pr-143
Fraction of Ce-143  going to Pr-143  in this chain = 1.000000

Decay Chain #  Ce-144

Decay Chain #  Cm-242   Pu-238
Fraction of Cm-242  going to Pu-238  in this chain = 1.000000

Decay Chain #  Cm-244   Pu-240
Fraction of Cm-244  going to Pu-240  in this chain = 1.000000

Decay Chain #  Co-58

Decay Chain #  Co-60

Decay Chain #  Cs-134

Decay Chain #  Cs-136

Decay Chain #  Cs-137

Decay Chain #  I-133    Xe-133
Fraction of I-133   going to Xe-133  in this chain = 0.971000

Decay Chain #  I-134

Decay Chain #  I-135    Xe-135
Fraction of I-135   going to Xe-135  in this chain = 0.846000

Decay Chain #  Kr-85m   Kr-85
Fraction of Kr-85m  going to Kr-85   in this chain = 0.211000

Decay Chain #  Kr-87

Decay Chain #  Kr-88

Decay Chain #  La-141   Ce-141
Fraction of La-141  going to Ce-141  in this chain = 1.000000

Decay Chain #  La-142

Decay Chain #  Mo-99    Tc-99m
```

```
Fraction of Mo-99   going to Tc-99m  in this chain = 0.876000

Decay Chain #  Nd-147

Decay Chain #  Np-239   Pu-239
Fraction of Np-239  going to Pu-239  in this chain = 1.000000

Decay Chain #  Pu-241   Am-241
Fraction of Pu-241  going to Am-241  in this chain = 1.000000

Decay Chain #  Rb-86

Decay Chain #  Ru-103

Decay Chain #  Ru-105   Rh-105
Fraction of Ru-105  going to Rh-105  in this chain = 1.000000

Decay Chain #  Ru-106

Decay Chain #  Sb-127   Te-127
Fraction of Sb-127  going to Te-127  in this chain = 0.824000

Decay Chain #  Sb-127   Te-127m  Te-127
Fraction of Sb-127  going to Te-127m in this chain = 0.176000
Fraction of Sb-127  going to Te-127  in this chain = 0.171776
Fraction of Te-127m going to Te-127  in this chain = 0.976000

Decay Chain #  Sb-129   Te-129
Fraction of Sb-129  going to Te-129  in this chain = 0.775000

Decay Chain #  Sb-129   Te-129m  Te-129
Fraction of Sb-129  going to Te-129m in this chain = 0.225000
Fraction of Sb-129  going to Te-129  in this chain = 0.146250
Fraction of Te-129m going to Te-129  in this chain = 0.650000

Decay Chain #  Sr-89

Decay Chain #  Sr-90    Y-90
Fraction of Sr-90   going to Y-90    in this chain = 1.000000

Decay Chain #  Sr-91    Y-91
Fraction of Sr-91   going to Y-91    in this chain = 0.422000

Decay Chain #  Sr-92    Y-92
Fraction of Sr-92   going to Y-92    in this chain = 1.000000

Decay Chain #  Te-131m  I-131
Fraction of Te-131m going to I-131   in this chain = 0.778000

Decay Chain #  Te-132   I-132
Fraction of Te-132  going to I-132   in this chain = 1.000000

Decay Chain #  Y-93

Decay Chain #  Zr-95    Nb-95
Fraction of Zr-95   going to Nb-95   in this chain = 0.993000

Decay Chain #  Zr-97


RELEASED INVENTORY OF ALL PLUMES
Co-58      7.26E+09
Co-60      5.57E+09
```

Kr-85	3.57E+12
Kr-85m	1.23E+13
Kr-87	2.19E+11
Kr-88	1.14E+13
Rb-86	1.31E+10
Sr-89	1.13E+11
Sr-90	1.13E+10
Sr-91	5.97E+10
Sr-92	7.20E+09
Y-90	1.96E+09
Y-91	8.55E+09
Y-92	2.56E+10
Y-93	4.47E+09
Zr-95	1.12E+10
Zr-97	6.94E+09
Nb-95	1.14E+10
Mo-99	1.29E+12
Tc-99m	1.21E+12
Ru-103	1.16E+12
Ru-105	1.24E+11
Ru-106	4.10E+11
Rh-105	6.60E+11
Sb-127	3.81E+11
Sb-129	1.82E+11
Te-127	3.92E+11
Te-127m	5.41E+10
Te-129	3.09E+11
Te-129m	1.79E+11
Te-131m	4.22E+11
Te-132	4.93E+12
I-131	1.20E+13
I-132	5.41E+12
I-133	1.72E+13
I-134	2.12E+09
I-135	6.77E+12
Xe-133	5.48E+14
Xe-135	6.85E+13
Cs-134	1.15E+12
Cs-136	3.27E+11
Cs-137	6.64E+11
Ba-139	1.54E+09
Ba-140	6.02E+11
La-140	1.24E+11
La-141	1.35E+09
La-142	4.93E+07
Ce-141	9.46E+10
Ce-143	6.94E+10
Ce-144	7.53E+10
Pr-143	1.18E+10
Nd-147	4.33E+09
Np-239	1.02E+12
Pu-238	2.59E+08
Pu-239	2.20E+07
Pu-240	3.29E+07
Pu-241	7.42E+09
Am-241	1.05E+06
Cm-242	2.58E+08
Cm-244	2.79E+07

READING FROM A WEATHER FILE WITH THE FOLLOWING HEADER:
INDIAN POINT ENERGY CENTER METEORLOGICAL DATAFILE
Input file for the MACCS2 model using the year 2003
METEOROLOGICAL DATA FILE CONTAINS 595 HOURS OF OBSERVED RAIN DATA.

```
            ACCUMULATED RAIN MEASUREMENTS TOTALED  45.55 INCHES FOR THE YEAR.
            CONSTANT LID HEIGHTS (M) FOR 4 SEASONS =    1100   1200   1300   1200
            NON-ZERO WINDSPEEDS LESS THAN 0.5 M/S ARE SET TO 0.5 M/S
NUMTRI=         155


                                  * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND, 1 (0-1), 2 (1-2), 3
(2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                        WIND DIRECTION
  METBIN    1     2     3     4     5     6     7     8     9    10    11    12
13    14    15    16  TOTAL   PER CENT

 1 B   3  0.238 0.039 0.044 0.094 0.050 0.061 0.072 0.072 0.066 0.050 0.006 0.000
0.017 0.028 0.000 0.166  181     2.0662
 2 B   4  0.326 0.022 0.000 0.000 0.000 0.101 0.191 0.146 0.011 0.022 0.000 0.000
0.000 0.000 0.000 0.180   89     1.0160
 3 D   1  0.094 0.117 0.054 0.049 0.040 0.027 0.040 0.022 0.031 0.036 0.036 0.045
0.081 0.103 0.081 0.143  223     2.5457
 4 D   2  0.153 0.091 0.069 0.062 0.052 0.043 0.041 0.048 0.100 0.107 0.070 0.031
0.031 0.021 0.024 0.058 1436    16.3927
 5 D   3  0.122 0.058 0.026 0.041 0.053 0.077 0.100 0.068 0.182 0.152 0.043 0.023
0.009 0.001 0.004 0.039 1403    16.0160
 6 D   4  0.065 0.054 0.013 0.026 0.046 0.110 0.200 0.077 0.212 0.161 0.021 0.003
0.000 0.000 0.000 0.012 1068    12.1918
 7 D   5  0.055 0.000 0.000 0.044 0.077 0.099 0.275 0.044 0.308 0.088 0.000 0.000
0.000 0.000 0.000 0.011   91     1.0388
 9 E   1  0.113 0.088 0.060 0.063 0.032 0.033 0.023 0.037 0.069 0.102 0.060 0.040
0.058 0.060 0.072 0.090  568     6.4840
10 E   2  0.129 0.094 0.079 0.036 0.016 0.015 0.009 0.009 0.043 0.209 0.190 0.054
0.019 0.015 0.012 0.073  822     9.3836
11 E   3  0.192 0.079 0.017 0.017 0.031 0.021 0.045 0.031 0.072 0.305 0.144 0.000
0.000 0.000 0.000 0.048  292     3.3333
12 E   4  0.179 0.054 0.036 0.000 0.018 0.018 0.054 0.107 0.143 0.304 0.018 0.000
0.000 0.000 0.000 0.071   56     0.6393
13 F   1  0.052 0.019 0.033 0.038 0.047 0.043 0.057 0.066 0.242 0.199 0.095 0.043
0.019 0.019 0.014 0.014  211     2.4087
14 F   2  0.058 0.029 0.022 0.029 0.011 0.018 0.011 0.018 0.097 0.412 0.191 0.043
0.011 0.004 0.011 0.036  277     3.1621
15 F   3  0.058 0.008 0.008 0.008 0.025 0.091 0.124 0.041 0.025 0.413 0.190 0.000
0.000 0.000 0.000 0.008  121     1.3813
16 F   4  0.023 0.000 0.000 0.068 0.000 0.159 0.045 0.114 0.318 0.273 0.000 0.000
0.000 0.000 0.000 0.000   44     0.5023
17 R1  3  0.138 0.045 0.009 0.011 0.005 0.020 0.011 0.018 0.144 0.312 0.056 0.041
0.029 0.025 0.050 0.086  443     5.0571
18 R1  6  0.120 0.048 0.036 0.036 0.012 0.024 0.000 0.060 0.060 0.048 0.145 0.084
0.012 0.036 0.072 0.205   83     0.9475
19 R1 11  0.159 0.079 0.024 0.024 0.024 0.024 0.008 0.024 0.087 0.214 0.079 0.008
0.024 0.056 0.048 0.119  126     1.4384
20 R1 16  0.182 0.061 0.030 0.020 0.020 0.020 0.020 0.020 0.121 0.212 0.081 0.020
0.061 0.000 0.000 0.131   99     1.1301
21 R1 32  0.214 0.058 0.024 0.017 0.010 0.014 0.017 0.014 0.122 0.210 0.078 0.037
0.034 0.010 0.037 0.105  295     3.3676
```

```
22 R1 65  0.214 0.076 0.030 0.019 0.006 0.024 0.026 0.017 0.076 0.203 0.069 0.032
0.028 0.009 0.032 0.136  462     5.2740
23 R2  3  0.096 0.029 0.000 0.000 0.010 0.029 0.000 0.029 0.125 0.317 0.019 0.058
0.038 0.038 0.077 0.135  104     1.1872
24 R2  6  0.125 0.125 0.250 0.000 0.000 0.000 0.000 0.000 0.125 0.125 0.125 0.000
0.000 0.125 0.000 0.000    8     0.0913
25 R2 11  0.333 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.222 0.222 0.000
0.000 0.000 0.111 0.111    9     0.1027
26 R2 16  0.083 0.167 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.250 0.000 0.000
0.000 0.000 0.000 0.500   12     0.1370
27 R2 32  0.350 0.050 0.000 0.050 0.000 0.000 0.000 0.000 0.050 0.050 0.100 0.000
0.000 0.000 0.000 0.350   20     0.2283
28 R2 65  0.265 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.118 0.059 0.029 0.059
0.029 0.029 0.000 0.353   34     0.3881
29 R3  3  0.068 0.045 0.045 0.000 0.023 0.023 0.000 0.045 0.114 0.386 0.045 0.023
0.023 0.023 0.045 0.091   44     0.5023
30 R3  6  0.333 0.000 0.000 0.000 0.000 0.167 0.000 0.167 0.000 0.167 0.000 0.000
0.000 0.000 0.000 0.167    6     0.0685
31 R3 11  0.667 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.333 0.000 0.000
0.000 0.000 0.000 0.000    3     0.0342
32 R3 16  0.200 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.400 0.200 0.000
0.000 0.200 0.000 0.000    5     0.0571
33 R3 32  0.214 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.071 0.143 0.357 0.143
0.071 0.000 0.000 0.000   14     0.1598
34 R3 65  0.083 0.042 0.000 0.000 0.042 0.000 0.000 0.000 0.083 0.083 0.333 0.208
0.042 0.000 0.000 0.083   24     0.2740
35 R4  3  0.306 0.083 0.083 0.000 0.000 0.000 0.000 0.000 0.083 0.194 0.028 0.000
0.083 0.028 0.056 0.056   36     0.4110
36 R4  6  0.000 0.000 0.000 0.000 0.000 0.143 0.000 0.143 0.000 0.143 0.000 0.143
0.000 0.143 0.000 0.286    7     0.0799
37 R4 11  0.250 0.125 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.125
0.000 0.000 0.250 0.250    8     0.0913
38 R4 16  0.333 0.167 0.167 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.333    6     0.0685
39 R4 32  0.364 0.000 0.000 0.091 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.545   11     0.1256
40 R4 65  0.368 0.211 0.105 0.000 0.000 0.000 0.000 0.000 0.000 0.053 0.000 0.000
0.000 0.000 0.000 0.263   19     0.2169
41 ALL    0.133 0.067 0.038 0.037 0.034 0.049 0.065 0.045 0.121 0.176 0.075 0.029
0.022 0.017 0.022 0.070 8760
```

```
                              * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND (M/S), 1 (0-1), 2 (1-2),
3 (2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                WIND DIRECTION
  METBIN    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15
 16 TOTAL   PER CENT

 1 B   3    43    7    8   17    9   11   13   13   12    9    1    0    3    5    0
  30  181     2.0662
 2 B   4    29    2    0    0    0    9   17   13    1    2    0    0    0    0    0
  16   89     1.0160
 3 D   1    21   26   12   11    9    6    9    5    7    8    8   10   18   23   18
```

```
  32  223     2.5457
 4 D   2   219  130   99   89   75   62   59   69  143  154  100   45   44   30   35
  83 1436    16.3927
 5 D   3   171   81   37   57   75  108  141   95  256  213   61   32   13    2    6
  55 1403    16.0160
 6 D   4    69   58   14   28   49  118  214   82  226  172   22    3    0    0    0
  13 1068    12.1918
 7 D   5     5    0    0    4    7    9   25    4   28    8    0    0    0    0    0
   1   91     1.0388
 8 D   6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
 9 E   1    64   50   34   36   18   19   13   21   39   58   34   23   33   34   41
  51  568     6.4840
10 E   2   106   77   65   30   13   12    7    7   35  172  156   44   16   12   10
  60  822     9.3836
11 E   3    56   23    5    5    9    6   13    9   21   89   42    0    0    0    0
  14  292     3.3333
12 E   4    10    3    2    0    1    1    3    6    8   17    1    0    0    0    0
   4   56     0.6393
13 F   1    11    4    7    8   10    9   12   14   51   42   20    9    4    4    3
   3  211     2.4087
14 F   2    16    8    6    8    3    5    3    5   27  114   53   12    3    1    3
  10  277     3.1621
15 F   3     7    1    1    1    3   11   15    5    3   50   23    0    0    0    0
   1  121     1.3813
16 F   4     1    0    0    3    0    7    2    5   14   12    0    0    0    0    0
   0   44     0.5023
17 R1  3    61   20    4    5    2    9    5    8   64  138   25   18   13   11   22
  38  443     5.0571
18 R1  6    10    4    3    3    1    2    0    5    5    4   12    7    1    3    6
  17   83     0.9475
19 R1 11    20   10    3    3    3    3    1    3   11   27   10    1    3    7    6
  15  126     1.4384
20 R1 16    18    6    3    2    2    2    2    2   12   21    8    2    6    0    0
  13   99     1.1301
21 R1 32    63   17    7    5    3    4    5    4   36   62   23   11   10    3   11
  31  295     3.3676
22 R1 65    99   35   14    9    3   11   12    8   35   94   32   15   13    4   15
  63  462     5.2740
23 R2  3    10    3    0    0    1    3    0    3   13   33    2    6    4    4    8
  14  104     1.1872
24 R2  6     1    1    2    0    0    0    0    0    1    1    1    0    0    1    0
   0    8     0.0913
25 R2 11     3    0    0    0    0    0    0    0    0    2    2    0    0    0    1
   1    9     0.1027
26 R2 16     1    2    0    0    0    0    0    0    0    3    0    0    0    0    0
   6   12     0.1370
27 R2 32     7    1    0    1    0    0    0    0    1    1    2    0    0    0    0
   7   20     0.2283
28 R2 65     9    2    0    0    0    0    0    0    4    2    1    2    1    1    0
  12   34     0.3881
29 R3  3     3    2    2    0    1    1    0    2    5   17    2    1    1    1    2
   4   44     0.5023
30 R3  6     2    0    0    0    0    1    0    1    0    1    0    0    0    0    0
   1    6     0.0685
31 R3 11     2    0    0    0    0    0    0    0    0    1    0    0    0    0    0
   0    3     0.0342
32 R3 16     1    0    0    0    0    0    0    0    0    2    1    0    0    1    0
   0    5     0.0571
33 R3 32     3    0    0    0    0    0    0    0    1    2    5    2    1    0    0
   0   14     0.1598
34 R3 65     2    1    0    0    1    0    0    0    2    2    8    5    1    0    0
   2   24     0.2740
```

```
35 R4  3    11    3    3    0    0    0    0    0    3    7    1    0    3    1    2
   2   36     0.4110
36 R4  6     0    0    0    0    0    1    0    1    0    1    0    1    0    1    0
   2    7     0.0799
37 R4 11     2    1    0    0    0    0    0    0    0    0    0    1    0    0    2
   2    8     0.0913
38 R4 16     2    1    1    0    0    0    0    0    0    0    0    0    0    0    0
   2    6     0.0685
39 R4 32     4    0    0    1    0    0    0    0    0    0    0    0    0    0    0
   6   11     0.1256
40 R4 65     7    4    2    0    0    0    0    0    0    1    0    0    0    0    0
   5   19     0.2169


              * * * * SUMMARIES * * * *

   R       341  113   44   29   17   37   25   37  193  422  135   72   57   38   75
243 1878   21.4384
   B        72    9    8   17    9   20   30   26   13   11    1    0    3    5    0
 46  270    3.0822
   D       485  295  162  189  215  303  448  255  660  555  191   90   75   55   59
184 4221   48.1849
   E       236  153  106   71   41   38   36   43  103  336  233   67   49   46   51
129 1738   19.8402
   F        35   13   14   20   16   32   32   29   95  218   96   21    7    5    6
 14  653    7.4543
      1     96   80   53   55   37   34   34   40   97  108   62   42   55   61   62
 86 1002   11.4384
      2    346  216  174  135   97   83   72   83  209  444  309  101   63   44   48
161 2585   29.5091
      3    272  111   47   72   90  132  179  120  288  357  127   32   16    6    6
 92 1947   22.2260
      4    109   63   16   31   50  135  236  106  241  203   23    3    0    0    0
 33 1249   14.2580
      5      5    0    0    4    7    9   25    4   31    8    0    0    0    0    0
  1   94    1.0731
      6      0    0    0    0    0    0    0    0    5    0    0    0    0    0    0
  0    5    0.0571

                * * * * * BIN WINDROSE SUMMARY * * * * *

  BIN                            DIRECTION
                                    TOTAL
          1      2      3      4      5      6      7      8      9     10     11
 12     13     14     15     16
    1  0.238  0.039  0.044  0.094  0.050  0.061  0.072  0.072  0.066  0.050  0.006
0.000  0.017  0.028  0.000  0.166  1.000000
    2  0.326  0.022  0.000  0.000  0.000  0.101  0.191  0.146  0.011  0.022  0.000
0.000  0.000  0.000  0.000  0.180  1.000000
    3  0.094  0.117  0.054  0.049  0.040  0.027  0.040  0.022  0.031  0.036  0.036
0.045  0.081  0.103  0.081  0.143  1.000000
    4  0.153  0.091  0.069  0.062  0.052  0.043  0.041  0.048  0.100  0.107  0.070
0.031  0.031  0.021  0.024  0.058  1.000000
    5  0.122  0.058  0.026  0.041  0.053  0.077  0.100  0.068  0.182  0.152  0.043
0.023  0.009  0.001  0.004  0.039  1.000000
    6  0.065  0.054  0.013  0.026  0.046  0.110  0.200  0.077  0.212  0.161  0.021
0.003  0.000  0.000  0.000  0.012  1.000000
    7  0.055  0.000  0.000  0.044  0.077  0.099  0.275  0.044  0.308  0.088  0.000
0.000  0.000  0.000  0.000  0.011  1.000000
    8  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000000
    9  0.113  0.088  0.060  0.063  0.032  0.033  0.023  0.037  0.069  0.102  0.060
0.040  0.058  0.060  0.072  0.090  1.000000
```

```
   10  0.129  0.094  0.079  0.036  0.016  0.015  0.009  0.009  0.043  0.209  0.190
0.054  0.019  0.015  0.012  0.073  1.000000
   11  0.192  0.079  0.017  0.017  0.031  0.021  0.045  0.031  0.072  0.305  0.144
0.000  0.000  0.000  0.000  0.048  1.000000
   12  0.179  0.054  0.036  0.000  0.018  0.018  0.054  0.107  0.143  0.304  0.018
0.000  0.000  0.000  0.000  0.071  1.000000
   13  0.052  0.019  0.033  0.038  0.047  0.043  0.057  0.066  0.242  0.199  0.095
0.043  0.019  0.019  0.014  0.014  1.000000
   14  0.058  0.029  0.022  0.029  0.011  0.018  0.011  0.018  0.097  0.412  0.191
0.043  0.011  0.004  0.011  0.036  1.000000
   15  0.058  0.008  0.008  0.008  0.025  0.091  0.124  0.041  0.025  0.413  0.190
0.000  0.000  0.000  0.000  0.008  1.000000
   16  0.023  0.000  0.000  0.068  0.000  0.159  0.045  0.114  0.318  0.273  0.000
0.000  0.000  0.000  0.000  0.000  1.000000
   17  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   18  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   19  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   20  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   21  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   22  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   23  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   24  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   25  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   26  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   27  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   28  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   29  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   30  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   31  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   32  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   33  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   34  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   35  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   36  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   37  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   38  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   39  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   40  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   41  0.133  0.067  0.038  0.037  0.034  0.049  0.065  0.045  0.121  0.176  0.075
```

```
0.029  0.022  0.017  0.022  0.070  1.000000


******** BEGINNING OF CHANGE CASE   1 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  2 OF 8

       *

  222  RDATNAM2001 'EARLY HIGH'

********   RECORD NUMBER   222 REPLACES RECORD NUMBER   123   ********
       *

  223  RDOALARM001   1.36E+04

********   RECORD NUMBER   223 REPLACES RECORD NUMBER   124   ********
  224  RDNUMREL001   1

********   RECORD NUMBER   224 REPLACES RECORD NUMBER   125   ********
  225  RDMAXRIS001   1

********   RECORD NUMBER   225 REPLACES RECORD NUMBER   126   ********
  226  RDREFTIM001   0.0

********   RECORD NUMBER   226 REPLACES RECORD NUMBER   127   ********
  227  RDPLHEAT001   1.08E+06

********   RECORD NUMBER   227 REPLACES RECORD NUMBER   128   ********
  228  RDPLHITE001   30.

********   RECORD NUMBER   228 REPLACES RECORD NUMBER   129   ********
  229  RDPLUDUR001   8.24E+04

********   RECORD NUMBER   229 REPLACES RECORD NUMBER   130   ********
  230  RDPDELAY001   1.32E+04

********   RECORD NUMBER   230 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  231  RDRELFRC001 7.0E-01 2.4E-01 2.3E-01 2.3E-01 2.5E-02 9.1E-02 8.0E-04 4.8E-03
4.6E-02
********   RECORD NUMBER   231 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   1 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   1
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      2.76E+15
Co-60      2.11E+15
Kr-85      2.69E+16
```

Kr-85m	3.37E+17
Kr-87	1.55E+17
Kr-88	6.55E+17
Rb-86	1.90E+15
Sr-89	7.68E+16
Sr-90	7.62E+15
Sr-91	7.40E+16
Sr-92	4.10E+16
Y-90	5.41E+14
Y-91	3.24E+15
Y-92	3.46E+16
Y-93	3.02E+15
Zr-95	4.30E+15
Zr-97	3.72E+15
Nb-95	4.36E+15
Mo-99	5.35E+17
Tc-99m	4.83E+17
Ru-103	4.44E+17
Ru-105	1.72E+17
Ru-106	1.56E+17
Rh-105	2.78E+17
Sb-127	7.76E+16
Sb-129	1.33E+17
Te-127	7.79E+16
Te-127m	1.04E+16
Te-129	1.59E+17
Te-129m	3.45E+16
Te-131m	9.81E+16
Te-132	1.02E+18
I-131	7.59E+17
I-132	1.06E+18
I-133	1.39E+18
I-134	9.50E+16
I-135	9.98E+17
Xe-133	4.34E+18
Xe-135	1.13E+18
Cs-134	1.65E+17
Cs-136	4.79E+16
Cs-137	9.54E+16
Ba-139	4.24E+16
Ba-140	2.56E+17
La-140	2.03E+16
La-141	2.24E+15
La-142	7.95E+14
Ce-141	2.54E+16
Ce-143	2.20E+16
Ce-144	2.01E+16
Pr-143	3.97E+15
Nd-147	1.69E+15
Np-239	3.01E+17
Pu-238	6.91E+13
Pu-239	5.86E+12
Pu-240	8.78E+12
Pu-241	1.98E+15
Am-241	3.95E+11
Cm-242	9.83E+13
Cm-244	1.06E+13

******** BEGINNING OF CHANGE CASE 2 USER INPUT ********
********** RELEASE DATA BLOCK **********

* SOURCE TERM NUMBER 3 OF 8

```
       *

  232  RDATNAM2001 'EARLY MEDIUM'

********   RECORD NUMBER   232 REPLACES RECORD NUMBER   123   ********
       *

  233  RDOALARM001   1.00E+04

********   RECORD NUMBER   233 REPLACES RECORD NUMBER   124   ********
  234  RDNUMREL001   1

********   RECORD NUMBER   234 REPLACES RECORD NUMBER   125   ********
  235  RDMAXRIS001   1

********   RECORD NUMBER   235 REPLACES RECORD NUMBER   126   ********
  236  RDREFTIM001   0.0

********   RECORD NUMBER   236 REPLACES RECORD NUMBER   127   ********
  237  RDPLHEAT001   1.33E+06

********   RECORD NUMBER   237 REPLACES RECORD NUMBER   128   ********
  238  RDPLHITE001   30.

********   RECORD NUMBER   238 REPLACES RECORD NUMBER   129   ********
  239  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   239 REPLACES RECORD NUMBER   130   ********
  240  RDPDELAY001   1.25E+04

********   RECORD NUMBER   240 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  241  RDRELFRC001 9.9E-01 2.0E-02 1.8E-02 2.7E-02 8.3E-04 2.0E-02 4.9E-05 3.3E-04
1.3E-02
********   RECORD NUMBER   241 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   2 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   2
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      6.07E+14
Co-60      4.64E+14
Kr-85      3.80E+16
Kr-85m     4.91E+17
Kr-87      2.43E+17
Kr-88      9.71E+17
Rb-86      1.49E+14
Sr-89      2.55E+15
Sr-90      2.53E+14
Sr-91      2.49E+15
```

```
Sr-92      1.43E+15
Y-90       2.43E+13
Y-91       1.97E+14
Y-92       1.19E+15
Y-93       1.87E+14
Zr-95      2.63E+14
Zr-97      2.30E+14
Nb-95      2.67E+14
Mo-99      1.18E+17
Tc-99m     1.06E+17
Ru-103     9.76E+16
Ru-105     3.91E+16
Ru-106     3.42E+16
Rh-105     6.11E+16
Sb-127     9.13E+15
Sb-129     1.61E+16
Te-127     9.16E+15
Te-127m    1.22E+15
Te-129     1.91E+16
Te-129m    4.05E+15
Te-131m    1.16E+16
Te-132     1.20E+17
I-131      6.33E+16
I-132      1.11E+17
I-133      1.17E+17
I-134      9.24E+15
I-135      8.49E+16
Xe-133     6.10E+18
Xe-135     1.29E+18
Cs-134     1.29E+16
Cs-136     3.75E+15
Cs-137     7.47E+15
Ba-139     1.32E+16
Ba-140     7.25E+16
La-140     4.50E+15
La-141     1.42E+14
La-142     5.32E+13
Ce-141     1.75E+15
Ce-143     1.52E+15
Ce-144     1.38E+15
Pr-143     2.44E+14
Nd-147     1.03E+14
Np-239     2.07E+16
Pu-238     4.75E+12
Pu-239     4.03E+11
Pu-240     6.04E+11
Pu-241     1.36E+14
Am-241     2.42E+10
Cm-242     6.02E+12
Cm-244     6.52E+11


******** BEGINNING OF CHANGE CASE   3 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  4 OF 8

       *

  242  RDATNAM2001 'EARLY LOW'

********   RECORD NUMBER   242 REPLACES RECORD NUMBER   123   ********
       *
```

```
  243  RDOALARM001   1.09E+04

********   RECORD NUMBER   243 REPLACES RECORD NUMBER   124   ********
  244  RDNUMREL001   1

********   RECORD NUMBER   244 REPLACES RECORD NUMBER   125   ********
  245  RDMAXRIS001   1

********   RECORD NUMBER   245 REPLACES RECORD NUMBER   126   ********
  246  RDREFTIM001   0.0

********   RECORD NUMBER   246 REPLACES RECORD NUMBER   127   ********
  247  RDPLHEAT001   1.60E+06

********   RECORD NUMBER   247 REPLACES RECORD NUMBER   128   ********
  248  RDPLHITE001   30.

********   RECORD NUMBER   248 REPLACES RECORD NUMBER   129   ********
  249  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   249 REPLACES RECORD NUMBER   130   ********
  250  RDPDELAY001   1.73E+04

********   RECORD NUMBER   250 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  251  RDRELFRC001 7.6E-01 5.9E-03 4.1E-03 3.9E-03 1.0E-04 2.0E-03 4.6E-06 3.3E-05
7.8E-04
********   RECORD NUMBER   251 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   3 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   3
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      6.07E+13
Co-60      4.64E+13
Kr-85      2.92E+16
Kr-85m     3.06E+17
Kr-87      9.02E+16
Kr-88      5.39E+17
Rb-86      3.38E+13
Sr-89      3.07E+14
Sr-90      3.05E+13
Sr-91      2.73E+14
Sr-92      1.23E+14
Y-90       2.94E+12
Y-91       1.86E+13
Y-92       1.41E+14
Y-93       1.60E+13
Zr-95      2.47E+13
Zr-97      2.04E+13
```

```
Nb-95      2.51E+13
Mo-99      1.16E+16
Tc-99m     1.06E+16
Ru-103     9.75E+15
Ru-105     3.17E+15
Ru-106     3.42E+15
Rh-105     6.05E+15
Sb-127     1.31E+15
Sb-129     1.88E+15
Te-127     1.32E+15
Te-127m    1.76E+14
Te-129     2.33E+15
Te-129m    5.85E+14
Te-131m    1.62E+15
Te-132     1.71E+16
I-131      1.86E+16
I-132      1.97E+16
I-133      3.30E+16
I-134      9.49E+14
I-135      2.18E+16
Xe-133     4.65E+18
Xe-135     8.87E+17
Cs-134     2.95E+15
Cs-136     8.52E+14
Cs-137     1.70E+15
Ba-139     4.06E+14
Ba-140     4.34E+15
La-140     3.72E+14
La-141     1.05E+13
La-142     2.74E+12
Ce-141     1.75E+14
Ce-143     1.48E+14
Ce-144     1.38E+14
Pr-143     2.33E+13
Nd-147     9.67E+12
Np-239     2.04E+15
Pu-238     4.75E+11
Pu-239     4.03E+10
Pu-240     6.04E+10
Pu-241     1.36E+13
Am-241     2.28E+09
Cm-242     5.65E+11
Cm-244     6.12E+10


******** BEGINNING OF CHANGE CASE   4 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  5 OF 8

       *

  252  RDATNAM2001 'LATE HIGH'

********   RECORD NUMBER   252 REPLACES RECORD NUMBER   123   ********
       *

  253  RDOALARM001   5.58E+03

********   RECORD NUMBER   253 REPLACES RECORD NUMBER   124   ********
  254  RDNUMREL001   1

********   RECORD NUMBER   254 REPLACES RECORD NUMBER   125   ********
```

```
  255  RDMAXRIS001   1

********   RECORD NUMBER   255 REPLACES RECORD NUMBER   126   ********
  256  RDREFTIM001   0.5

********   RECORD NUMBER   256 REPLACES RECORD NUMBER   127   ********
  257  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   257 REPLACES RECORD NUMBER   128   ********
  258  RDPLHITE001   30.

********   RECORD NUMBER   258 REPLACES RECORD NUMBER   129   ********
  259  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   259 REPLACES RECORD NUMBER   130   ********
  260  RDPDELAY001   7.38E+04

********   RECORD NUMBER   260 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  261  RDRELFRC001 9.9E-01 1.2E-01 2.3E-02 4.8E-03 2.1E-04 3.7E-03 1.3E-05 1.2E-04
9.1E-04
********   RECORD NUMBER   261 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   4 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   4
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.11E+14
Co-60      8.58E+13
Kr-85      3.80E+16
Kr-85m     5.50E+15
Kr-87      3.27E+10
Kr-88      8.14E+14
Rb-86      1.82E+14
Sr-89      6.35E+14
Sr-90      6.40E+13
Sr-91      7.59E+13
Sr-92      2.16E+11
Y-90       2.19E+13
Y-91       5.30E+13
Y-92       4.34E+12
Y-93       6.78E+12
Zr-95      6.89E+13
Zr-97      1.85E+13
Nb-95      7.08E+13
Mo-99      1.61E+16
Tc-99m     1.54E+16
Ru-103     1.77E+16
Ru-105     7.78E+13
Ru-106     6.31E+15
Rh-105     6.98E+15
```

```
Sb-127     1.31E+15
Sb-129     2.71E+13
Te-127     1.40E+15
Te-127m    2.16E+14
Te-129     4.88E+14
Te-129m    7.06E+14
Te-131m    1.05E+15
Te-132     1.64E+16
I-131      3.42E+17
I-132      1.70E+16
I-133      2.67E+17
I-134      5.97E+06
I-135      2.43E+16
Xe-133     5.27E+18
Xe-135     2.23E+17
Cs-134     1.65E+16
Cs-136     4.50E+15
Cs-137     9.54E+15
Ba-139     4.23E+08
Ba-140     4.75E+15
La-140     2.15E+15
La-141     2.25E+11
La-142     3.03E+07
Ce-141     6.19E+14
Ce-143     3.01E+14
Ce-144     5.01E+14
Pr-143     8.67E+13
Nd-147     2.54E+13
Np-239     5.28E+15
Pu-238     1.73E+12
Pu-239     1.47E+11
Pu-240     2.20E+11
Pu-241     4.94E+13
Am-241     6.69E+09
Cm-242     1.59E+12
Cm-244     1.73E+11


******** BEGINNING OF CHANGE CASE   5 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  6 OF 8

       *

  262  RDATNAM2001 'LATE MEDIUM'

********   RECORD NUMBER   262 REPLACES RECORD NUMBER   123   ********
       *

  263  RDOALARM001   8.94E+03

********   RECORD NUMBER   263 REPLACES RECORD NUMBER   124   ********
  264  RDNUMREL001   1

********   RECORD NUMBER   264 REPLACES RECORD NUMBER   125   ********
  265  RDMAXRIS001   1

********   RECORD NUMBER   265 REPLACES RECORD NUMBER   126   ********
  266  RDREFTIM001   0.5

********   RECORD NUMBER   266 REPLACES RECORD NUMBER   127   ********
  267  RDPLHEAT001   9.20E+05
```

```
********   RECORD NUMBER   267 REPLACES RECORD NUMBER   128   ********
  268  RDPLHITE001   30.

********   RECORD NUMBER   268 REPLACES RECORD NUMBER   129   ********
  269  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   269 REPLACES RECORD NUMBER   130   ********
  270  RDPDELAY001   8.04E+04

********   RECORD NUMBER   270 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  271  RDRELFRC001 8.2E-01 1.5E-02 4.3E-03 1.5E-03 8.0E-05 1.4E-03 5.1E-06 4.7E-05
3.5E-04
********   RECORD NUMBER   271 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   5 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   5
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      4.20E+13
Co-60      3.25E+13
Kr-85      3.15E+16
Kr-85m     3.43E+15
Kr-87      9.97E+09
Kr-88      4.31E+14
Rb-86      3.39E+13
Sr-89      2.42E+14
Sr-90      2.44E+13
Sr-91      2.53E+13
Sr-92      5.15E+10
Y-90       8.69E+12
Y-91       2.08E+13
Y-92       1.17E+12
Y-93       2.34E+12
Zr-95      2.70E+13
Zr-97      6.75E+12
Nb-95      2.78E+13
Mo-99      5.96E+15
Tc-99m     5.73E+15
Ru-103     6.68E+15
Ru-105     2.21E+13
Ru-106     2.39E+15
Rh-105     2.55E+15
Sb-127     4.02E+14
Sb-129     6.32E+12
Te-127     4.33E+14
Te-127m    6.76E+13
Te-129     1.50E+14
Te-129m    2.20E+14
Te-131m    3.15E+14
```

```
Te-132     5.06E+15
I-131      4.25E+16
I-132      5.21E+15
I-133      3.13E+16
I-134      1.75E+05
I-135      2.50E+15
Xe-133     4.27E+18
Xe-135     1.09E+17
Cs-134     3.09E+15
Cs-136     8.37E+14
Cs-137     1.78E+15
Ba-139     6.48E+07
Ba-140     1.82E+15
La-140     8.58E+14
La-141     6.39E+10
La-142     5.21E+06
Ce-141     2.42E+14
Ce-143     1.13E+14
Ce-144     1.96E+14
Pr-143     3.43E+13
Nd-147     9.92E+12
Np-239     2.02E+15
Pu-238     6.77E+11
Pu-239     5.76E+10
Pu-240     8.60E+10
Pu-241     1.94E+13
Am-241     2.63E+09
Cm-242     6.23E+11
Cm-244     6.78E+10


******** BEGINNING OF CHANGE CASE   6 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  7 OF 8

       *

  272  RDATNAM2001 'LATE LOW'

********   RECORD NUMBER   272 REPLACES RECORD NUMBER   123   ********
       *

  273  RDOALARM001   2.19E+04

********   RECORD NUMBER   273 REPLACES RECORD NUMBER   124   ********
  274  RDNUMREL001   1

********   RECORD NUMBER   274 REPLACES RECORD NUMBER   125   ********
  275  RDMAXRIS001   1

********   RECORD NUMBER   275 REPLACES RECORD NUMBER   126   ********
  276  RDREFTIM001   0.5

********   RECORD NUMBER   276 REPLACES RECORD NUMBER   127   ********
  277  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   277 REPLACES RECORD NUMBER   128   ********
  278  RDPLHITE001   30.

********   RECORD NUMBER   278 REPLACES RECORD NUMBER   129   ********
  279  RDPLUDUR001   8.64E+04
```

```
********   RECORD NUMBER   279 REPLACES RECORD NUMBER   130   ********
  280  RDPDELAY001   9.90E+04

********   RECORD NUMBER   280 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  281  RDRELFRC001 7.0E-01 1.1E-03 7.9E-04 1.2E-03 8.7E-05 3.5E-06 2.6E-06 2.4E-05
7.4E-05
********   RECORD NUMBER   281 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   6 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   6
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	1.05E+11
Co-60	8.12E+10
Kr-85	2.69E+16
Kr-85m	1.32E+15
Kr-87	5.09E+08
Kr-88	1.04E+14
Rb-86	6.18E+12
Sr-89	2.62E+14
Sr-90	2.65E+13
Sr-91	1.89E+13
Sr-92	1.49E+10
Y-90	9.77E+12
Y-91	1.10E+13
Y-92	4.77E+11
Y-93	8.38E+11
Zr-95	1.37E+13
Zr-97	2.78E+12
Nb-95	1.42E+13
Mo-99	1.41E+13
Tc-99m	1.36E+13
Ru-103	1.66E+13
Ru-105	2.47E+10
Ru-106	5.97E+12
Rh-105	5.76E+12
Sb-127	3.10E+14
Sb-129	2.21E+12
Te-127	3.35E+14
Te-127m	5.41E+13
Te-129	1.17E+14
Te-129m	1.75E+14
Te-131m	2.24E+14
Te-132	3.86E+15
I-131	3.09E+15
I-132	3.98E+15
I-133	1.93E+15
I-134	2.16E+02
I-135	1.07E+14
Xe-133	3.54E+18

```
Xe-135     5.80E+16
Cs-134     5.67E+14
Cs-136     1.52E+14
Cs-137     3.28E+14
Ba-139     1.02E+06
Ba-140     3.80E+14
La-140     2.03E+14
La-141     1.31E+10
La-142     2.60E+05
Ce-141     1.23E+14
Ce-143     5.19E+13
Ce-144     1.00E+14
Pr-143     1.79E+13
Nd-147     4.99E+12
Np-239     9.70E+14
Pu-238     3.46E+11
Pu-239     2.94E+10
Pu-240     4.39E+10
Pu-241     9.89E+12
Am-241     1.35E+09
Cm-242     3.18E+11
Cm-244     3.46E+10


******** BEGINNING OF CHANGE CASE   7 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  8 OF 8

       *

  282  RDATNAM2001 'LATE LOWLOW'

********   RECORD NUMBER   282 REPLACES RECORD NUMBER   123   ********
       *

  283  RDOALARM001   2.56E+04

********   RECORD NUMBER   283 REPLACES RECORD NUMBER   124   ********
  284  RDNUMREL001   1

********   RECORD NUMBER   284 REPLACES RECORD NUMBER   125   ********
  285  RDMAXRIS001   1

********   RECORD NUMBER   285 REPLACES RECORD NUMBER   126   ********
  286  RDREFTIM001   0.5

********   RECORD NUMBER   286 REPLACES RECORD NUMBER   127   ********
  287  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   287 REPLACES RECORD NUMBER   128   ********
  288  RDPLHITE001   30.

********   RECORD NUMBER   288 REPLACES RECORD NUMBER   129   ********
  289  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   289 REPLACES RECORD NUMBER   130   ********
  290  RDPDELAY001   1.13E+05

********   RECORD NUMBER   290 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
```

```
  291  RDRELFRC001 9.1E-01 8.1E-04 7.0E-04 7.6E-04 3.6E-05 2.1E-06 1.1E-06 1.2E-05
3.3E-05
********   RECORD NUMBER   291 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   7 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   7
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	6.27E+10
Co-60	4.87E+10
Kr-85	3.49E+16
Kr-85m	9.37E+14
Kr-87	7.95E+07
Kr-88	5.25E+13
Rb-86	5.44E+12
Sr-89	1.08E+14
Sr-90	1.10E+13
Sr-91	5.88E+12
Sr-92	2.28E+09
Y-90	4.34E+12
Y-91	4.66E+12
Y-92	9.41E+10
Y-93	2.72E+11
Zr-95	5.80E+12
Zr-97	1.00E+12
Nb-95	5.99E+12
Mo-99	8.14E+12
Tc-99m	7.83E+12
Ru-103	9.95E+12
Ru-105	8.07E+09
Ru-106	3.58E+12
Rh-105	3.20E+12
Sb-127	1.90E+14
Sb-129	7.49E+11
Te-127	2.07E+14
Te-127m	3.43E+13
Te-129	7.29E+13
Te-129m	1.11E+14
Te-131m	1.29E+14
Te-132	2.36E+15
I-131	2.24E+15
I-132	2.44E+15
I-133	1.25E+15
I-134	7.35E+00
I-135	5.23E+13
Xe-133	4.50E+18
Xe-135	5.59E+16
Cs-134	5.02E+14
Cs-136	1.34E+14
Cs-137	2.90E+14
Ba-139	6.43E+04
Ba-140	1.68E+14
La-140	9.55E+13

```
La-141     2.79E+09
La-142     1.92E+04
Ce-141     6.13E+13
Ce-143     2.39E+13
Ce-144     5.01E+13
Pr-143     8.22E+12
Nd-147     2.09E+12
Np-239     4.62E+14
Pu-238     1.73E+11
Pu-239     1.47E+10
Pu-240     2.20E+10
Pu-241     4.94E+12
Am-241     5.80E+08
Cm-242     1.34E+11
Cm-244     1.46E+10


USER INPUT IS READ FROM UNIT 25
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE

       *

    1  MIEANAM1001 'EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES'

    2  DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)

       *

       *             ORGNAM         ORGFLG

       *

    3  MIORGDEF001  'A-SKIN'        .TRUE.

    4  MIORGDEF002  'A-RED MARR'    .TRUE.

    5  MIORGDEF003  'A-LUNGS'       .TRUE.

    6  MIORGDEF004  'A-THYROIDH'    .TRUE.

    7  MIORGDEF005  'A-STOMACH'     .TRUE.

    8  MIORGDEF006  'A-LOWER LI'    .FALSE.  (does not contribute to early
fatalities)
    9  MIORGDEF007  'L-EDEWBODY'    .TRUE.

   10  MIORGDEF008  'L-RED MARR'    .TRUE.

   11  MIORGDEF009  'L-BONE SUR'    .TRUE.

   12  MIORGDEF010  'L-BREAST'      .TRUE.

   13  MIORGDEF011  'L-LUNGS'       .TRUE.

   14  MIORGDEF012  'L-THYROID'     .TRUE.
```

```
15  MIORGDEF013  'L-LOWER LI'    .TRUE.
16  MIORGDEF014  'L-BLAD WAL'    .TRUE.
17  MIORGDEF015  'L-LIVER'       .FALSE.
18  MIORGDEF016  'L-THYROIDH'    .TRUE.
    *
    * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
    *
19  MIENDAT2001  .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
    *
    * DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
    *                                2  *  WIND-SHIFT WITH ROTATION
    *                                3  *  WIND-SHIFT WITHOUT ROTATION
    *
20  MIIPLUME001  2
    *
    * NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
    *
21  MINUMFIN001  7    (3, 5 OR 7 ALLOWED)
    *
    * LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
    *
22  MIIPRINT001  0
    *
    * LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
    * BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
    *
    *             RISBIN
    *
23  MIRISCAT001   .FALSE.
    *
    * FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
```

```
      *
   24 MIOVRRID001  .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
*****************************************************************************
      * POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
      *
   25 PDPOPFLG001  FILE
      *
      *PDPOPFLG001  UNIFORM
      *PDIBEGIN001  1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
      *PDPOPDEN001  50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))
*****************************************************************************
      * SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
      *
      * THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
      * ONE FOR EACH TYPE OF ACTIVTY:
      *
      * ACTIVITY TYPE:
      *     1 - EVACUEES WHILE MOVING
      *     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
      *     3 - SHELTERED ACTIVITY
      *
      * CLOUD SHIELDING FACTOR
      *
      *    SITE        GG   PB   SEQ  SUR  ZION
      *    SHELTERING  0.7  0.5  0.65 0.6  0.5
      *
      *            EVACUEES  NORMAL  SHELTER
      *
   26 SECSFACT001      1.     0.75     0.6   *  SURRY SHELTERING VALUE
      *
      * PROTECTION FACTOR FOR INHALATION
```

```
    *
27  SEPROTIN001      1.     0.41      0.33  * VALUES FOR NORMAL ACTIVITY AND
    *                                          SHELTERING SELECTED BY NRC STAFF
    *
    * BREATHING RATE (CUBIC METERS PER SECOND)
    *
28  SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
    *
    * SKIN PROTECTION FACTOR
    *
29  SESKPFAC001  1.0      0.41     0.33    * VALUES FOR NORMAL ACTIVITY AND
    *                                         SHELTERING SELECTED BY NRC STAFF
    *
    * GROUND SHIELDING FACTOR
    *
    *    SITE        GG   PB   SEQ  SUR  ZION
    *    SHELTERING  0.25 0.1  0.2  0.2  0.1
    *
30  SEGSHFAC001      0.5    0.4    0.2   * VALUE FOR NORMAL ACTIVITY SELECTED BY
    *                                        NRC STAFF
    *
    * RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
    *
    *   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
    *   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
    *   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
    *   USED IN CHRONC.
    *
31  SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
    *
    * RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
```

```
     *
32   SERESHAF001   1.82E5    (2.11 DAYS)
*****************************************************************************
     * EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
     *
     * SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
     *
33   EZEANAM2001  'NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE'
     *
     * THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
     * YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
     *
34   EZWTNAME001  'PEOPLE'
     *
     * WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
     *
35   EZWTFRAC001  1.00
     *
     * LAST RING IN THE MOVEMENT ZONE
     *
36   EZLASMOV001     0   (A ZERO TURNS OFF THE EVACUATION MODEL)
     *
     ********************************************************************
     * SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
     *                                         STORED IN /INPSRZ/, /RELOCA/
     *
     * DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
     *
37   SRENDEMP001  604800.   (ONE WEEK)
     *
     * CRITICAL ORGAN FOR RELOCATION DECISIONS
```

```
     *
38   SRCRIORG001 'L-EDEWBODY'
     *
     * HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
39   SRTIMHOT001  43200.    (ONE-HALF DAY)
     *
     * NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
40   SRTIMNRM001  86400.    (ONE DAY)
     *
     * HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
41   SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
     *
     * NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
42   SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
     * EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
     *
     * NUMBER OF EARLY FATALITY EFFECTS
     *
43   EFNUMEFA001   2
     *
     *            ORGNAM       EFFACA   EFFACB   EFFTHR
     *
44   EFATAGRP001 'A-RED MARR'      3.8      5.0    1.5
45   EFATAGRP002 'A-LUNGS'        10.0      7.0    5.0
*******************************************************************************
     * EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
```

```
     *
     * NUMBER OF EARLY INJURY EFFECTS
     *
46   EINUMEIN001  7
     *
     *            EINAME           ORGNAM   EISUSC EITHRE EIFACA EIFACB
     *
47   EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
48   EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
49   EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
50   EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
51   EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
52   EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
53   EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3
*******************************************************************************
     * ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
     *
     * NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
     *
54   LCNUMACA001   7
     *
     * THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
     *
55   LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
     *
     * DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
     *
56   LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
     *
     *            ACNAME     ORGNAM  ACSUSC DOSEFA DOSEFB CFRISK   CIRISK  DDREFA
     *
```

```
57  LCANCERS001 'LEUKEMIA' 'L-RED MARR'  1.0   1.0   0.0   9.70E-3   0.0     2.0
58  LCANCERS002 'BONE'     'L-BONE SUR'  1.0   1.0   0.0   9.00E-4   0.0     2.0
59  LCANCERS003 'BREAST'   'L-BREAST'    1.0   1.0   0.0   5.40E-3   1.7E-2  1.0
60  LCANCERS004 'LUNG'     'L-LUNGS'     1.0   1.0   0.0   1.55E-2   0.0     2.0
61  LCANCERS005 'THYROID'  'L-THYROIDH'  1.0   1.0   0.0   7.20E-4   7.2E-3  1.0
62  LCANCERS006 'GI'       'L-LOWER LI'  1.0   1.0   0.0   3.36E-2   0.0     2.0
63  LCANCERS007 'OTHER'    'L-EDEWBODY'  1.0   1.0   0.0   2.76E-2   0.0     2.0

*******************************************************************************
    * RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
    * TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
    *
    * NUMBER OF DESIRED RESULTS OF THIS TYPE
    *
64  TYPE1NUMBER    4
    *
65  TYPE1OUT001    'ERL FAT/TOTAL'                1  15   NOCCDF (0 TO 50 MILES)
66  TYPE1OUT009    'CAN FAT/TOTAL'                1  15   NOCCDF
67  TYPE1OUT019    'CAN FAT/TOTAL'                1  11   NOCCDF (0 TO 10 MILES)
68  TYPE1OUT020    'ERL FAT/TOTAL'                1  11          (0 TO 10 MILES)

*******************************************************************************
    * RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
    * FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
    *
    * NUMBER OF DESIRED RESULTS OF THIS TYPE
    *
69  TYPE2NUMBER  0
    *
    *            FATALITY RISK THRESHOLD
    *
    *TYPE2OUT001  0.
```

```
*******************************************************************************
      * RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
      * NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   70 TYPE3NUMBER  0
      *
      *               ORGAN NAME   DOSE THRESHOLD (Sv)
      *
      *TYPE3OUT001    'A-RED MARR'        1.5
      *TYPE3OUT002    'A-LUNGS'           5.0
      *TYPE3OUT003    'L-EDEWBODY'        0.05

*******************************************************************************
      * RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
      * 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
      *
      * POSSIBLE TYPES OF EFFECTS ARE:
      *
      *   'ERL FAT/TOTAL'
      *   'ERL INJ/INJURY NAME'
      *   'CAN FAT/CANCER NAME'
      *   'CAN FAT/TOTAL'
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   71 TYPE4NUMBER  3
      *
      *            RADIAL INDEX   TYPE OF EFFECT
      *
   72 TYPE4OUT001       1         'ERL FAT/TOTAL'
```

```
   73  TYPE4OUT002       2         'ERL FAT/TOTAL'
   74  TYPE4OUT003       3         'ERL FAT/TOTAL'

*****************************************************************************
       * RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
       *
       * TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   75  TYPE5NUMBER     1
       *
       *             ORGAN      I1DIS5     I2DIS5
       *
   76  TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)

*****************************************************************************
       * RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
       *
       * CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS
FOLLOWS:
       *
       *  PATHWAY NAME:
       *    'CLD'     - CLOUDSHINE
       *    'GRD'     - GROUNDSHINE
       *    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
       *    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE
CLOUD
       *    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
       *    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
       *    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
       *    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
```

```
*
77  TYPE6NUMBER     0
*
*             ORGNAM        PATHNM      I1DIS6   I2DIS6
*
*TYPE6OUT001  'A-RED MARR'    'TOT ACU'      1       19     (0-50 MILES)
*TYPE6OUT002  'A-LUNGS'       'TOT ACU'      1       19     (0-50 MILES)
*TYPE6OUT003  'L-EDEWBODY'    'TOT LIF'      1       26     (0-1000 MILES)

*******************************************************************************
* RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
*
* CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
78  TYPE7NUMBER   0
*
*                    NAME           I1DIS7       I2DIS7
*
*TYPE7OUT001     'ERL FAT/TOTAL'        1           19       (0-50 MILES)
*TYPE7OUT002     'CAN FAT/TOTAL'        1           26       (0-1000 MILES)

*******************************************************************************
* RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
*
* POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
79  TYPE8NUMBER   2
*
*                NAME       I1DIS8  I2DIS8
```

```
       *
   80  TYPE8OUT001 'ERL FAT/TOTAL'   1       3     NOCCDF
   81  TYPE8OUT002 'CAN FAT/TOTAL'   1      11     NOCCDF  (0-10 MILES)

*****************************************************************************
       * RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/
       *
       * peak dose to a given organ
       *
       *            NUMA
   82  TYPEANUMBER   0
       *
       *              ORGNAM    I1DISA  I2DISA
       *TYPEAOUT001 'L-EDEWBODY'  1       15
       .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  341
NUMBER OF BLANK OR COMMENT RECORDS READ         =  258
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   82
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   82
*****************************************************************************
****************


The list of defined organs is as follows (A- is ACUTE and L- is LIFETIME):
   A-SKIN
   A-RED MARR
   A-LUNGS
   A-THYROIDH
   A-STOMACH
   L-EDEWBODY
   L-RED MARR
   L-BONE SUR
   L-BREAST
   L-LUNGS
   L-THYROID
   L-LOWER LI
   L-BLAD WAL
   L-THYROIDH
Am using a DOSFAC/DOSFAC2/IDCF2 dose factor file
```

```
READING FROM A DOSE CONVERSION FILE WITH THE FOLLOWING HEADER:
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1

NO EVACUATION REQUESTED


USING THE FOLLOWING SITE DATA FILE:

MACCS2 Site Data File for Indian Point Energy Center
SITE FILE
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   7 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   1 WATERSHEDS
  21 ECONOMIC REGIONS
 SPATIAL DISTANCES     KILOMETERS
    0.3219    1.6093    3.2187    4.8280    6.4374    8.0467    9.6561   11.2654
   12.8748   14.4841   16.0935   32.1869   48.2804   64.3739   80.4674
 POPULATION
        6.        0.      271.     2059.     2501.      909.      931.     1223.
     1389.     1503.     1696.    22955.    30654.    39620.    51057.0
       16.        7.      170.     1943.     2912.     2051.     1177.     1388.
     1577.     1798.     1913.    28140.    39917.    56226.    67213.0
       17.      193.      883.     2131.     2964.     3843.     3910.     3059.
     2464.     1998.     1915.    29419.    53692.    62559.    41261.0
       17.      364.     1275.     2132.     2977.     3453.     4507.     5282.
     6140.     6960.     7279.    74856.   119073.   152175.   176338.0
       17.      390.     1218.     2138.     2934.     3792.     4424.     5513.
     5587.     7201.     8076.   118335.   156720.   200581.   208394.0
       17.      409.     1256.     2136.     2970.     3592.     3698.     3857.
     5734.     6783.     7409.   121515.   144267.    54180.    34361.0
       17.      410.     1274.     2138.     2872.     3808.     4537.     5279.
     6284.     7194.     8060.   111946.    87735.   236426.   379990.0
       17.      360.     1268.     1645.      882.      495.       15.     1442.
      948.     1911.     3214.    98326.   481703.  1380249.  1218170.0
       17.      400.      701.      246.      124.      620.     1538.     3253.
     4129.     4455.     5138.   135211.  1164596.  3732339.  3164306.0
       17.      377.      562.      500.     1700.     2882.     3544.     4187.
     4873.     5517.     6159.   202605.   395389.   922649.  1034467.0
       17.      217.      187.     1566.     2274.     2916.     3574.     4188.
     4361.     5358.     6138.   183372.   276902.   197362.   246076.0
        9.        0.      620.     1623.     2197.     2924.     3550.     4014.
     4196.     4255.     4335.    64428.   209197.   109102.    85849.0
        3.        0.      855.     1602.     2267.     2815.     2368.     1787.
     1423.     1775.     2030.    32026.    50974.    61380.    57384.0
        2.        0.      938.     1624.     2245.     1341.     1135.     1419.
     1505.     1756.     2071.    32528.    54577.    57977.    29719.0
        2.       45.      974.     1589.     1933.      972.     1140.     1351.
     1541.     1781.     2093.    32572.    54557.    24046.    22317.0
        3.       50.      809.     1051.     1587.      740.     1204.     1407.
     1620.     1787.     2028.    31660.    32569.    27599.    34374.0
 LAND FRACTION
 0.37 0.00 0.23 0.96 0.99 0.94 0.78 0.87 0.85 0.81 0.82 0.83 0.94 0.94 0.93
 0.92 0.02 0.13 0.91 0.97 0.98 1.00 1.00 0.98 0.99 0.94 0.95 0.99 0.99 0.98
 1.00 0.47 0.69 1.00 0.99 1.00 0.98 0.96 0.95 1.00 0.94 0.91 0.94 0.95 0.96
 1.00 0.89 0.99 1.00 0.99 0.90 0.96 0.95 0.96 0.96 0.97 0.91 0.92 0.95 0.98
 1.00 0.95 0.95 1.00 0.98 0.99 0.94 0.99 0.87 0.99 0.99 0.92 0.97 0.97 0.78
 1.00 1.00 0.98 1.00 0.99 0.93 0.79 0.69 0.89 0.93 0.91 0.97 0.95 0.27 0.12
 1.00 1.00 0.99 1.00 0.96 0.99 0.96 0.95 0.98 0.99 0.99 0.93 0.53 0.48 0.98
 1.00 0.88 0.99 0.77 0.29 0.13 0.00 0.26 0.16 0.30 0.43 0.77 0.70 0.79 0.82
 1.00 0.97 0.55 0.12 0.05 0.21 0.43 0.77 0.85 0.81 0.83 0.84 0.87 0.81 0.59
```

```
 1.00 0.92 0.44 0.31 0.75 0.99 0.99 0.99 1.00 1.00 1.00 0.99 0.99 0.93 0.92
 1.00 0.53 0.18 0.96 1.00 1.00 1.00 0.99 0.89 0.97 0.99 0.98 0.93 0.90 0.94
 0.52 0.00 0.64 1.00 0.97 1.00 0.99 0.95 0.91 0.92 0.94 0.94 0.93 0.97 0.94
 0.19 0.00 0.88 0.99 1.00 1.00 1.00 0.98 0.86 0.95 0.97 0.97 0.98 0.97 0.97
 0.13 0.00 0.96 1.00 1.00 0.99 0.94 0.99 0.91 0.94 0.99 0.98 0.99 0.97 0.95
 0.14 0.14 1.00 0.98 0.99 0.98 0.94 0.94 0.93 0.95 1.00 0.98 0.99 0.99 0.96
 0.20 0.16 0.83 0.57 0.65 0.75 0.99 0.98 0.98 0.95 0.97 0.96 0.96 0.99 0.96
 REGION INDEX
2021202020141414141314060606060
2021202020141414141414140606060
2020202020202014141414140603030
2020202020202020202020200101040
2020202020202020202020200101040
2020202020202020202020200101170
2020202020202020202020200112170
2020202020202120202020202012120
2020202021161616161616160215110
2020201616161616161616020205100
2020161616161616161616160807070
2021161616161616161616130809090
2021161616161313131313131309090
2021161616131313131313131313180
2016161616131313131313131318180
2016161620131313131313131919190
 WATERSHED INDEX
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 CROP SEASON AND SHARE
   1 PASTURE               90. 270.  0.0162
   2 STORED FORAGE        150. 240.  0.0480
   3 GRAINS               150. 240.  0.0079
   4 GRN LEAFY VEGETABLES 150. 240.  0.0005
   5 OTHER FOOD CROPS     150. 240.  0.0036
   6 LEGUMES AND SEEDS    150. 240.  0.0002
   7 ROOTS AND TUBERS     150. 240.  0.0018
 WATERSHED DEFINITION  -- INITIAL AND ANNUAL WASHOFF AND INGESTION FACTORS
   1 Sr-89                           5.00E-06
   2 Sr-90                           5.00E-06
   3 Cs-134                          5.00E-06
   4 Cs-137                          5.00E-06
 REGIONAL ECONOMIC DATA
  01 FAIRFIELD      0.032 .008    5831.0   66592.0  287881.0
  02 BERGEN         0.009 .000   14568.0  124496.0  262186.0
  03 LITCHFIELD     0.159 .371     795.0   22373.0  186016.0
  04 NEWHAVEN       0.067 .029    5439.0   36942.0  192427.0
  05 ESSEX          0.002 .000   11903.0  120139.0  197400.0
  06 DUTCHESS       0.219 .207     698.0   16206.0  169417.0
  07 MORRIS         0.057 .006    6005.0   67365.0  277661.0
  08 PASSAIC        0.013 .000    9836.0   81944.0  161864.0
```

```
  09 SUSSEX         0.226 .311     483.0   18496.0  165741.0
  10 UNION          0.003 .000   91646.0  243939.0  209708.0
  11 KINGS          0.000 .000       0.0       0.0  123701.0
  12 NASSAU         0.006 .000   18237.0   88422.0  239932.0
  13 ORANGE         0.207 .288    1516.0   13148.0  148873.0
  14 PUTNAM         0.045 .000     892.0   24525.0  180274.0
  15 QUEENS         0.000 .000       0.0       0.0  226728.0
  16 ROCKLAND       0.011 .047    6365.0   65755.0  203359.0
  17 SUFFOLK        0.058 .000   14567.0   54566.0  192471.0
  18 SULLIVAN       0.103 .233    1466.0    7911.0  139374.0
  19 ULSTER         0.116 .043    1019.0    9908.0  138739.0
  20 WESTCHESTR     0.036 .009    2206.0   39116.0  263389.0
  21 WATER          0.000 .000       0.0       0.0       0.0
POPULATION

>>The Record Identifier TYPEBNUMBER was not found:
>>Type B results not being generated



USER INPUT IS READ FROM UNIT 26
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE

       *

    1  CHCHNAME001 'CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model'

*******************************************************************************

       * EMERGENCY RESPONSE COST DATA BLOCK

       *

       * DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)

       *

    2  CHEVACST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

       *

       * DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)

       *

    3  CHRELCST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

*******************************************************************************

       * LONG TERM PROTECTIVE ACTION DATA BLOCK

       *
```

```
      * Duration of the intermediate phase period--at version 1.11c TMIPND is no
      * longer processed.  The new input variable DUR_INTPHAS is the period's
      * duration, not the time after plume arrival at which the period ends.
      *
    4 DUR_INTPHAS   0.0    (in seconds)   (no intermediate phase)
      *
      * LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
      * PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
      *
    5 CHTMPACT001   1.58E8             (5 YEARS)
      *
      * DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
      *
    6 CHDSCRTI001   1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
      *
      * DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
      *
    7 CHDSCRLT001    0.04
      *
      * CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
      *
    8 CHCRTOCR001 'L-EDEWBODY'
      *
      * Long Term Exposure Period    Previously permanently set to:
      *    one million years = 3.15 E13 seconds
      *    MACCS2 allowable range is 3.15E7 to 1.E10
      *
    9 CHEXPTIM001    9.45E8
*******************************************************************************
      * DECONTAMINATION PLAN DATA BLOCK
      *
```

```
     * NUMBER OF LEVELS OF DECONTAMINATION
     *
  10 CHLVLDEC001  2
     *
     * DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
     *  (SECONDS)
     *
  11 CHTIMDEC001   5.184E6  1.0368E7    (60, 120 DAYS)
     *
     * DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF
DECONTAMINATION
     *
  12 CHDSRFCT001   3.      15.
     *
     * COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  13 CHCDFRM0001   972.   2160.
     *
     * COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  14 CHCDNFRM001   5184.   13824.
     *
     * FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  15 CHFRFDL0001  .3      .35
     *
     * FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  16 CHFRNFDL001  .7      .5
```

```
      *
      * FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   17 CHTFWKF0001  .10     .33
      *
      * FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   18 CHTFWKNF001  .33     .33
      *
      * AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
      *
   19 CHDLBCST001   60480.
*******************************************************************************
      * INTERDICTION COST DATA BLOCK
      *
      * DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
      *
   20 CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER
YEAR)
      * THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
      *
   21 CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * POPULATION RELOCATION COST (DOLLARS/PERSON):
      *  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
      *  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
      *
   22 CHPOPCST001   8640.
```

```
*******************************************************************************
      * GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
      *
  23  CHNGWTRM001   2
      *
      * GROUNDSHINE WEATHERING COEFFICIENTS
      *
  24  CHGWCOEF001   0.5    0.5            (JON HELTON)
      *
      * HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
      *
  25  CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*******************************************************************************
      * RESUSPENSION WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
      *
  26  CHNRWTRM001    3
      *
      * RESUSPENSION CONCENTRATION COEFFICIENTS   (/ METER)
      *  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
      *
  27  CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
      *
      * HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
      *
  28  CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*******************************************************************************
```

```
     * SITE REGION DESCRIPTION DATA BLOCK
     *
     * FRACTION OF AREA THAT IS LAND IN THE REGION
     *
  29 CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
     *
  30 CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
     *  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN
FARMS)
     *
  31 CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
     *  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME
CONSUMPTION)
     *
  32 CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * VALUE OF FARM WEALTH (DOLLARS/HECTARE)
     *  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
     *
  33 CHVALWF0001    50071.
     *
     * FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
     *
  34 CHFRFIM0001   0.25
     *
     * NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
     *  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
```

```
*  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
*
35  CHVALWNF001    208838.
*
* FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
*
36  CHFRNFIM001   0.8
*******************************************************************************
37  CHFDPATH001 'NEW'
*
* name of the COMIDA2 binary output file
*
38  BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
*
* Dose limits triggering first year crop disposal of the separate
* milk and non-milk components of the diet, corresponding in purpose,
* more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
*
* For NUREG-1150 calculations, the maximum allowable ground concentrations
for
* production of milk and non-milk crops contaminated by an accident occurring
* in the growing season were derived based on an assumed maximum allowable
* dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
* reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
* the prior results, it is being assumed, for simplicity, that milk and
* non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
* effective dose limit used in NUREG-1150 is equally split between milk and
* non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
* thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
* portions of the diet.
*
*             effective     thyroid  (doses in sieverts)
39  DOSEMILK001    0.025          0.075
```

```
40  DOSEOTHR001    0.025          0.075
    *
    * Annual dose limits for the subsequent year's (i.e., after the first year)
    * interdiction of BOTH the milk and non-milk (combined) components of the
diet
    *
    * Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
    * an ingestion dose integrated from zero to infinity.  It is not possible to
    * translate those parameter values into corresponding annual dose limits, as
is
    * required by the COMIDA2-based food model.  The "total" dose limits used in
    * NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are
used
    * here as annual dose limits for interdiction of food production in years the
    * years subsequent to the accident.
    *
    *             effective     thyroid  (doses in sieverts)
41  DOSELONG001    0.005          0.015
    *
    * NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
    *
42  CHNUMWPI001    4
    *
    * TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
    *
    * IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
    *  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
    *
    *                        INITIAL     ANNUAL    INGESTION FACTOR
    *             WATER      WASHOFF     WASHOFF    ((Bq INGESTED)/
    *            NUCLIDE     FRACTION     RATE       (Bq IN WATER))
    *
    *             NAMWPI      WSHFRI      WSHRTA         WINGF
43  CHWTRISO001   Sr-89        0.01       0.004          5.0E-6
```

```
44  CHWTRISO002   Sr-90        0.01       0.004          5.0E-6
45  CHWTRISO003   Cs-134       0.005      0.001          5.0E-6
46  CHWTRISO004   Cs-137       0.005      0.001          5.0E-6

*******************************************************************************
      * SPECIAL OPTIONS DATA BLOCK
      *
      * DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING
ON!!
      *          KSWDSC
      *
47  CHKSWTCH001   0

*******************************************************************************
      * DEFINE THE TYPE 9 RESULTS
      *
      * LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
48  TYPE9NUMBER   1      (UP TO 10 ALLOWED)
      *
      *              ORGNAM        INNER      OUTER
      *
49  TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)

*******************************************************************************
      * ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
50  TYP10NUMBER   1      (UP TO 10 ALLOWED)
```

```
       *
       *               INNER      OUTER
       *
   51  TYP10OUT001      1          15    (0-50 MILES)

*****************************************************************************
       * DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
       *
       * SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
       * A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE
OUTPUT.
       *
   52  TYP11FLAG11  .FALSE.

*****************************************************************************
       * IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF
IMPACTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
       *
   53  TYP12NUMBER   0      (UP TO 10 ALLOWED)
       *
       *               INNER      OUTER
       *
       *TYP12OUT001      1          15    (0-50 MILES)

*****************************************************************************
       * Maximal annual food ingestion dose to an individual, requested by IXOT13
       *
       * This result is calculated after accounting for temporary or
       * permanent interdiction.  It is only available for the "new" food model.
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       *
```

```
  54  TYP13NUMBER   0   (UP TO 10 ALLOWED)
      *
      * IRAD13 is the radial spatial interval at which results are requested
      *
      * ORGN13 is the name of the organ for which results are requested
      *  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
      *
      *          IRAD13   ORGN13
      *
      *TYP13OUT001   2    EFFECTIVE
      *TYP13OUT002   4    EFFECTIVE
      *TYP13OUT003   6    EFFECTIVE
      *TYP13OUT004   8    EFFECTIVE
      *TYP13OUT005  10    EFFECTIVE
      *TYP13OUT006  12    EFFECTIVE
      *TYP13OUT007  15    EFFECTIVE
      *TYP13OUT008   2    THYROID
      *TYP13OUT009   4    THYROID
      *TYP13OUT010   6    THYROID
      *TYP13OUT011   8    THYROID
      *TYP13OUT012  10    THYROID
      *TYP13OUT013  12    THYROID
      *TYP13OUT014  15    THYROID
      .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********

USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  318
NUMBER OF BLANK OR COMMENT RECORDS READ         =  263
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   54
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   54
*******************************************************************************
****************
```

```
COMIDA2 binary file header =
COMIDA2 01/14/2004 13:06:02   Version 1.11.1, 01/12/2004

COMIDA2 descriptive title  =
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47

Seven new organs added with MACCS Version 1.5.11.1


A SITE DATA FILE IS BEING USED FOR BOTH "EARLY" AND "CHRONC"

 7 CANCER EFFECTS ARE DEFINED IN THE MODEL.
    INDEX  CANCER EFFECT                    ORGAN       ALPHA       BETA     CFRISK
   CIRISK
       1                       LEUKEMIA     L-RED MARR   1.000E+00  0.000E+00
9.700E-03  0.000E+00
       2                       BONE         L-BONE SUR   1.000E+00  0.000E+00
9.000E-04  0.000E+00
       3                       BREAST       L-BREAST     1.000E+00  0.000E+00
5.400E-03  1.700E-02
       4                       LUNG         L-LUNGS      1.000E+00  0.000E+00
1.550E-02  0.000E+00
       5                       THYROID      L-THYROIDH   1.000E+00  0.000E+00
7.200E-04  7.200E-03
       6                       GI           L-LOWER LI   1.000E+00  0.000E+00
3.360E-02  0.000E+00
       7                       OTHER        L-EDEWBODY   1.000E+00  0.000E+00
2.760E-02  0.000E+00

  TIME OF HOTSPOT RELOCATION IS 4.3200E+04.
  TIME OF NORMAL RETURN IS  8.640E+04 AND THE EMERGENCY PHASE ENDS AT  6.048E+05.


GROUNDSHINE SHIELDING FACTOR   = 0.400

RESUSPENSION PROTECTION FACTOR = 0.410

BREATHING RATE (CUBIC M/S) =   2.660E-04

  DISPERSION MODEL FLAG IS  2

  WINDROSE PROBABILITIES BY WIND DIRECTION AND MET BIN NUMBER
 BIN     1      2      3      4      5      6      7      8      9     10     11
12     13     14     15     16
    1 0.2376 0.0387 0.0442 0.0939 0.0497 0.0608 0.0718 0.0718 0.0663 0.0497 0.0055
0.0000 0.0166 0.0276 0.0000 0.1657
    2 0.3258 0.0225 0.0000 0.0000 0.0000 0.1011 0.1910 0.1461 0.0112 0.0225 0.0000
0.0000 0.0000 0.0000 0.0000 0.1798
    3 0.0942 0.1166 0.0538 0.0493 0.0404 0.0269 0.0404 0.0224 0.0314 0.0359 0.0359
0.0448 0.0807 0.1031 0.0807 0.1435
    4 0.1525 0.0905 0.0689 0.0620 0.0522 0.0432 0.0411 0.0481 0.0996 0.1072 0.0696
0.0313 0.0306 0.0209 0.0244 0.0578
    5 0.1219 0.0577 0.0264 0.0406 0.0535 0.0770 0.1005 0.0677 0.1825 0.1518 0.0435
0.0228 0.0093 0.0014 0.0043 0.0392
    6 0.0646 0.0543 0.0131 0.0262 0.0459 0.1105 0.2004 0.0768 0.2116 0.1610 0.0206
0.0028 0.0000 0.0000 0.0000 0.0122
    7 0.0549 0.0000 0.0000 0.0440 0.0769 0.0989 0.2747 0.0440 0.3077 0.0879 0.0000
0.0000 0.0000 0.0000 0.0000 0.0110
    8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    9 0.1127 0.0880 0.0599 0.0634 0.0317 0.0335 0.0229 0.0370 0.0687 0.1021 0.0599
0.0405 0.0581 0.0599 0.0722 0.0898
   10 0.1290 0.0937 0.0791 0.0365 0.0158 0.0146 0.0085 0.0085 0.0426 0.2092 0.1898
```

0.0535 0.0195 0.0146 0.0122 0.0730
11 0.1918 0.0788 0.0171 0.0171 0.0308 0.0205 0.0445 0.0308 0.0719 0.3048 0.1438
0.0000 0.0000 0.0000 0.0000 0.0479
12 0.1786 0.0536 0.0357 0.0000 0.0179 0.0179 0.0536 0.1071 0.1429 0.3036 0.0179
0.0000 0.0000 0.0000 0.0000 0.0714
13 0.0521 0.0190 0.0332 0.0379 0.0474 0.0427 0.0569 0.0664 0.2417 0.1991 0.0948
0.0427 0.0190 0.0190 0.0142 0.0142
14 0.0578 0.0289 0.0217 0.0289 0.0108 0.0181 0.0108 0.0181 0.0975 0.4116 0.1913
0.0433 0.0108 0.0036 0.0108 0.0361
15 0.0579 0.0083 0.0083 0.0083 0.0248 0.0909 0.1240 0.0413 0.0248 0.4132 0.1901
0.0000 0.0000 0.0000 0.0000 0.0083
16 0.0227 0.0000 0.0000 0.0682 0.0000 0.1591 0.0455 0.1136 0.3182 0.2727 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
17 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
18 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
19 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
20 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
21 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
22 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
23 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
24 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
25 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
26 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
27 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
28 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
29 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
30 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
31 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
32 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
33 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
34 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
35 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
36 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
37 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
38 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
39 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
40 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
41 0.1334 0.0666 0.0381 0.0372 0.0340 0.0491 0.0652 0.0445 0.1215 0.1760 0.0749
0.0285 0.0218 0.0170 0.0218 0.0703

```
Processing a Site Data File with Header: MACCS2 Site Data File for Indian Point
Energy Center
 SITE FILE

 THIS PROGRAM CURRENTLY ALLOWS THE GENERATION OF UP TO  394 RESULTS

YOU HAVE REQUESTED  10 RESULTS FROM "EARLY" COMPOSED OF:

   4 RESULTS OF TYPE 1
   0 RESULTS OF TYPE 2
   0 RESULTS OF TYPE 3
   3 RESULTS OF TYPE 4
   1 RESULTS OF TYPE 5
   0 RESULTS OF TYPE 6
   0 RESULTS OF TYPE 7
   2 RESULTS OF TYPE 8
   0 RESULTS OF TYPE A
   0 RESULTS OF TYPE B

YOU HAVE REQUESTED   30 RESULTS FROM "CHRONC" COMPOSED OF:

  17 RESULTS OF TYPE 9
  13 RESULTS OF TYPE 10
   0 RESULTS OF TYPE 11
   0 RESULTS OF TYPE 12
   0 RESULTS OF TYPE 13


     TRIAL        DAY       HOUR        BIN     PRBMET
         1        152          6         29   1.26E-03
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
         2        153         16          1   5.17E-03
For Julian Day 153, selecting COMIDA2 results # 4 of 9
         3        154         20         18   2.37E-03
For Julian Day 154, selecting COMIDA2 results # 4 of 9
         4        155          7         24   2.28E-04
For Julian Day 155, selecting COMIDA2 results # 4 of 9
         5        155         15         33   4.00E-04
For Julian Day 155, selecting COMIDA2 results # 4 of 9
         6        155         17         32   1.43E-04
For Julian Day 155, selecting COMIDA2 results # 4 of 9
         7        155         18         31   1.14E-04
For Julian Day 155, selecting COMIDA2 results # 4 of 9
         8        155         21         36   2.00E-04
```

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For Julian Day 155, selecting COMIDA2 results # 4 of 9
          9        156          3         21   8.42E-03
For Julian Day 156, selecting COMIDA2 results # 4 of 9
         10        158         16         23   2.97E-03
For Julian Day 158, selecting COMIDA2 results # 4 of 9
         11        160          6          3   6.36E-03
For Julian Day 160, selecting COMIDA2 results # 4 of 9
         12        160         16         28   9.70E-04
For Julian Day 160, selecting COMIDA2 results # 4 of 9
         13        163         18         28   9.70E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         14        163         21         25   2.57E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         15        164          6         37   2.28E-04
For Julian Day 164, selecting COMIDA2 results # 4 of 9
         16        164          9         35   1.03E-03
For Julian Day 164, selecting COMIDA2 results # 4 of 9
         17        166         11          4   4.10E-02
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         18        168          1          9   1.62E-02
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         19        170         12         40   5.42E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         20        170         17         39   3.14E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         21        170         18         38   1.71E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         22        170         20         36   2.00E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         23        170         21         36   2.00E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         24        172         17         30   1.71E-04
For Julian Day 172, selecting COMIDA2 results # 5 of 9
         25        184          5         10   2.35E-02
For Julian Day 184, selecting COMIDA2 results # 5 of 9
         26        194         24         15   3.45E-03
For Julian Day 194, selecting COMIDA2 results # 6 of 9
         27        199          2         22   1.32E-02
For Julian Day 199, selecting COMIDA2 results # 6 of 9
         28        199         15         20   2.83E-03
For Julian Day 199, selecting COMIDA2 results # 6 of 9
         29        202         20         38   1.71E-04
For Julian Day 202, selecting COMIDA2 results # 6 of 9
         30        203          2         40   5.42E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         31        203          3         39   3.14E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         32        203         18         38   1.71E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         33        203         19         37   2.28E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         34        203         20         37   2.28E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         35        206         20         13   6.02E-03
For Julian Day 206, selecting COMIDA2 results # 6 of 9
         36        207         14          6   3.05E-02
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         37        211         15          1   5.17E-03
For Julian Day 211, selecting COMIDA2 results # 6 of 9
         38        213         15         19   3.60E-03
For Julian Day 213, selecting COMIDA2 results # 6 of 9
         39        214          6          3   6.36E-03
For Julian Day 214, selecting COMIDA2 results # 6 of 9
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         40        214         12         40   5.42E-04
For Julian Day 214, selecting COMIDA2 results # 6 of 9
         41        216         11         26   3.42E-04
For Julian Day 216, selecting COMIDA2 results # 6 of 9
         42        216         12         24   2.28E-04
For Julian Day 216, selecting COMIDA2 results # 6 of 9
         43        217         20         17   1.26E-02
For Julian Day 217, selecting COMIDA2 results # 6 of 9
         44        217         23         27   5.71E-04
For Julian Day 217, selecting COMIDA2 results # 6 of 9
         45        219         18         26   3.42E-04
For Julian Day 219, selecting COMIDA2 results # 6 of 9
         46        219         19         25   2.57E-04
For Julian Day 219, selecting COMIDA2 results # 6 of 9
         47        223         12         34   6.85E-04
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         48        223         16         32   1.43E-04
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         49        223         21         35   1.03E-03
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         50        230          3         11   8.33E-03
For Julian Day 230, selecting COMIDA2 results # 7 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
         51        235          4          5   4.00E-02
For Julian Day 235, selecting COMIDA2 results # 7 of 9
         52        236         12          2   2.54E-03
For Julian Day 236, selecting COMIDA2 results # 7 of 9
         53        244         10         18   2.37E-03
For Julian Day 244, selecting COMIDA2 results # 7 of 9
         54        244         23         24   2.28E-04
For Julian Day 244, selecting COMIDA2 results # 7 of 9
         55        245          2         25   2.57E-04
For Julian Day 245, selecting COMIDA2 results # 7 of 9
         56        246         24         20   2.83E-03
For Julian Day 246, selecting COMIDA2 results # 7 of 9
         57        247          1         19   3.60E-03
For Julian Day 247, selecting COMIDA2 results # 7 of 9
         58        247         12          4   4.10E-02
For Julian Day 247, selecting COMIDA2 results # 7 of 9
         59        250          3         14   7.91E-03
For Julian Day 250, selecting COMIDA2 results # 7 of 9
         60        253         14          1   5.17E-03
For Julian Day 253, selecting COMIDA2 results # 7 of 9
         61        254          5         12   1.60E-03
For Julian Day 254, selecting COMIDA2 results # 7 of 9
         62        258         22         30   1.71E-04
For Julian Day 258, selecting COMIDA2 results # 8 of 9
         63        261         23         34   6.85E-04
For Julian Day 261, selecting COMIDA2 results # 8 of 9
         64        261         24         33   4.00E-04
For Julian Day 261, selecting COMIDA2 results # 8 of 9
         65        262          1         32   1.43E-04
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         66        268         14         28   9.70E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
         67        268         18         27   5.71E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
         68        268         19         27   5.71E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
         69        268         21         26   3.42E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
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        70        268         23         24   2.28E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
        71        269         20         34   6.85E-04
For Julian Day 269, selecting COMIDA2 results # 8 of 9
        72        270          3         33   4.00E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
        73        270          5         32   1.43E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
        74        270          6         31   1.14E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
        75        270          7         30   1.71E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
        76        270         23         36   2.00E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
        77        272          3         34   6.85E-04
For Julian Day 272, selecting COMIDA2 results # 8 of 9
        78        272          9         33   4.00E-04
For Julian Day 272, selecting COMIDA2 results # 8 of 9
        79        272         11         31   1.14E-04
For Julian Day 272, selecting COMIDA2 results # 8 of 9
        80        275          2          9   1.62E-02
For Julian Day 275, selecting COMIDA2 results # 8 of 9
        81        284         10          5   4.00E-02
For Julian Day 284, selecting COMIDA2 results # 8 of 9
        82        286         23         14   7.91E-03
For Julian Day 286, selecting COMIDA2 results # 8 of 9
        83        287         24         35   1.03E-03
For Julian Day 287, selecting COMIDA2 results # 9 of 9
        84        288          2         23   2.97E-03
For Julian Day 288, selecting COMIDA2 results # 9 of 9
        85        289          2         10   2.35E-02
For Julian Day 289, selecting COMIDA2 results # 9 of 9
        86        289          3         11   8.33E-03
For Julian Day 289, selecting COMIDA2 results # 9 of 9
        87        291         22         22   1.32E-02
For Julian Day 291, selecting COMIDA2 results # 9 of 9
        88        292          3         21   8.42E-03
For Julian Day 292, selecting COMIDA2 results # 9 of 9
        89        302          8         29   1.26E-03
For Julian Day 302, selecting COMIDA2 results # 9 of 9
        90        305          3          9   1.62E-02
For Julian Day 305, selecting COMIDA2 results # 9 of 9
        91        310         16         21   8.42E-03
For Julian Day 310, selecting COMIDA2 results # 9 of 9
        92        314         16          4   4.10E-02
For Julian Day 314, selecting COMIDA2 results # 9 of 9
        93        316         24         22   1.32E-02
For Julian Day 316, selecting COMIDA2 results # 9 of 9
        94        317         11          7   2.60E-03
For Julian Day 317, selecting COMIDA2 results # 9 of 9
        95        323         10         30   1.71E-04
For Julian Day 323, selecting COMIDA2 results # 9 of 9
        96        326         24         15   3.45E-03
For Julian Day 326, selecting COMIDA2 results # 9 of 9
        97        328          5         13   6.02E-03
For Julian Day 328, selecting COMIDA2 results # 9 of 9
        98        328         23         23   2.97E-03
For Julian Day 328, selecting COMIDA2 results # 9 of 9
        99        332         23         29   1.26E-03
For Julian Day 332, selecting COMIDA2 results # 9 of 9
       100        338         18         10   2.35E-02
For Julian Day 338, selecting COMIDA2 results # 1 of 9
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     TRIAL        DAY       HOUR        BIN     PRBMET
       101        339          8         16   1.26E-03
For Julian Day 339, selecting COMIDA2 results # 1 of 9
       102        340         23         16   1.26E-03
For Julian Day 340, selecting COMIDA2 results # 1 of 9
       103        341         13         12   1.60E-03
For Julian Day 341, selecting COMIDA2 results # 1 of 9
       104        345         14         18   2.37E-03
For Julian Day 345, selecting COMIDA2 results # 1 of 9
       105        348         11         17   1.26E-02
For Julian Day 348, selecting COMIDA2 results # 1 of 9
       106        356         14         12   1.60E-03
For Julian Day 356, selecting COMIDA2 results # 1 of 9
       107        357          3         13   6.02E-03
For Julian Day 357, selecting COMIDA2 results # 1 of 9
       108        358         15         26   3.42E-04
For Julian Day 358, selecting COMIDA2 results # 1 of 9
       109        362          4         16   1.26E-03
For Julian Day 362, selecting COMIDA2 results # 1 of 9
       110        364         14         16   1.26E-03
For Julian Day 364, selecting COMIDA2 results # 1 of 9
       111        364         24         15   3.45E-03
For Julian Day 364, selecting COMIDA2 results # 1 of 9
       112        365          6         14   7.91E-03
For Julian Day 365, selecting COMIDA2 results # 1 of 9
       113          2          4          7   2.60E-03
For Julian Day   2, selecting COMIDA2 results # 1 of 9
       114          3         13         17   1.26E-02
For Julian Day   3, selecting COMIDA2 results # 1 of 9
       115          5         11          3   6.36E-03
For Julian Day   5, selecting COMIDA2 results # 1 of 9
       116          8         24         11   8.33E-03
For Julian Day   8, selecting COMIDA2 results # 1 of 9
       117         10         11          6   3.05E-02
For Julian Day  10, selecting COMIDA2 results # 1 of 9
       118         38         22          6   3.05E-02
For Julian Day  38, selecting COMIDA2 results # 2 of 9
       119         47          5          7   2.60E-03
For Julian Day  47, selecting COMIDA2 results # 2 of 9
       120         49         17          3   6.36E-03
For Julian Day  49, selecting COMIDA2 results # 2 of 9
       121         51         12          5   4.00E-02
For Julian Day  51, selecting COMIDA2 results # 2 of 9
       122         53          6         19   3.60E-03
For Julian Day  53, selecting COMIDA2 results # 2 of 9
       123         55         23          9   1.62E-02
For Julian Day  55, selecting COMIDA2 results # 2 of 9
       124         60         18         20   2.83E-03
For Julian Day  60, selecting COMIDA2 results # 2 of 9
       125         61         11         29   1.26E-03
For Julian Day  61, selecting COMIDA2 results # 2 of 9
       126         65         17          7   2.60E-03
For Julian Day  65, selecting COMIDA2 results # 2 of 9
       127         67         22         12   1.60E-03
For Julian Day  67, selecting COMIDA2 results # 2 of 9
       128         69         13          2   2.54E-03
For Julian Day  69, selecting COMIDA2 results # 2 of 9
       129         74         16          5   4.00E-02
For Julian Day  74, selecting COMIDA2 results # 2 of 9
       130         80         17         39   3.14E-04
For Julian Day  80, selecting COMIDA2 results # 2 of 9
       131         80         18         39   3.14E-04
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For Julian Day  80, selecting COMIDA2 results # 2 of 9
        132         80         19         38   1.71E-04
For Julian Day  80, selecting COMIDA2 results # 2 of 9
        133         80         20         37   2.28E-04
For Julian Day  80, selecting COMIDA2 results # 2 of 9
        134         80         21         35   1.03E-03
For Julian Day  80, selecting COMIDA2 results # 2 of 9
        135         88         14         28   9.70E-04
For Julian Day  88, selecting COMIDA2 results # 2 of 9
        136         88         15         27   5.71E-04
For Julian Day  88, selecting COMIDA2 results # 2 of 9
        137         94         24         21   8.42E-03
For Julian Day  94, selecting COMIDA2 results # 3 of 9
        138         95         18          4   4.10E-02
For Julian Day  95, selecting COMIDA2 results # 3 of 9
        139        101         10         23   2.97E-03
For Julian Day 101, selecting COMIDA2 results # 3 of 9
        140        104         15          2   2.54E-03
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        141        110          2         14   7.91E-03
For Julian Day 110, selecting COMIDA2 results # 3 of 9
        142        110          6         15   3.45E-03
For Julian Day 110, selecting COMIDA2 results # 3 of 9
        143        113         24          6   3.05E-02
For Julian Day 113, selecting COMIDA2 results # 3 of 9
        144        116          1         17   1.26E-02
For Julian Day 116, selecting COMIDA2 results # 3 of 9
        145        118          6         13   6.02E-03
For Julian Day 118, selecting COMIDA2 results # 3 of 9
        146        122         12         40   5.42E-04
For Julian Day 122, selecting COMIDA2 results # 3 of 9
        147        124          4         10   2.35E-02
For Julian Day 124, selecting COMIDA2 results # 3 of 9
        148        127         24         20   2.83E-03
For Julian Day 127, selecting COMIDA2 results # 3 of 9
        149        138          5         11   8.33E-03
For Julian Day 138, selecting COMIDA2 results # 4 of 9
        150        139         14          2   2.54E-03
For Julian Day 139, selecting COMIDA2 results # 4 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
        151        140         16         22   1.32E-02
For Julian Day 140, selecting COMIDA2 results # 4 of 9
        152        141         12         18   2.37E-03
For Julian Day 141, selecting COMIDA2 results # 4 of 9
        153        148         13         25   2.57E-04
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        154        148         23         19   3.60E-03
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        155        149         16          1   5.17E-03
For Julian Day 149, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!
```

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 22.89 HOURS

WARNING!! WARNING!! WARNING!! WARNING!!

For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 153, selecting COMIDA2 results # 4 of 9
For Julian Day 154, selecting COMIDA2 results # 4 of 9
For Julian Day 155, selecting COMIDA2 results # 4 of 9
For Julian Day 155, selecting COMIDA2 results # 4 of 9
For Julian Day 155, selecting COMIDA2 results # 4 of 9
For Julian Day 155, selecting COMIDA2 results # 4 of 9
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For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 158, selecting COMIDA2 results # 4 of 9
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For Julian Day 184, selecting COMIDA2 results # 5 of 9
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For Julian Day 211, selecting COMIDA2 results # 6 of 9
For Julian Day 213, selecting COMIDA2 results # 6 of 9
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For Julian Day 235, selecting COMIDA2 results # 7 of 9
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For Julian Day 244, selecting COMIDA2 results # 7 of 9
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For Julian Day 245, selecting COMIDA2 results # 7 of 9
For Julian Day 246, selecting COMIDA2 results # 7 of 9
For Julian Day 247, selecting COMIDA2 results # 7 of 9

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For Julian Day 247, selecting COMIDA2 results # 7 of 9
For Julian Day 250, selecting COMIDA2 results # 7 of 9
For Julian Day 253, selecting COMIDA2 results # 7 of 9
For Julian Day 254, selecting COMIDA2 results # 7 of 9
For Julian Day 258, selecting COMIDA2 results # 8 of 9
For Julian Day 261, selecting COMIDA2 results # 8 of 9
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For Julian Day 262, selecting COMIDA2 results # 8 of 9
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For Julian Day 275, selecting COMIDA2 results # 8 of 9
For Julian Day 284, selecting COMIDA2 results # 8 of 9
For Julian Day 286, selecting COMIDA2 results # 8 of 9
For Julian Day 287, selecting COMIDA2 results # 9 of 9
For Julian Day 288, selecting COMIDA2 results # 9 of 9
For Julian Day 289, selecting COMIDA2 results # 9 of 9
For Julian Day 289, selecting COMIDA2 results # 9 of 9
For Julian Day 291, selecting COMIDA2 results # 9 of 9
For Julian Day 292, selecting COMIDA2 results # 9 of 9
For Julian Day 302, selecting COMIDA2 results # 9 of 9
For Julian Day 305, selecting COMIDA2 results # 9 of 9
For Julian Day 310, selecting COMIDA2 results # 9 of 9
For Julian Day 314, selecting COMIDA2 results # 9 of 9
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For Julian Day 332, selecting COMIDA2 results # 9 of 9
For Julian Day 338, selecting COMIDA2 results # 1 of 9
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For Julian Day 341, selecting COMIDA2 results # 1 of 9
For Julian Day 345, selecting COMIDA2 results # 1 of 9
For Julian Day 348, selecting COMIDA2 results # 1 of 9
For Julian Day 356, selecting COMIDA2 results # 1 of 9
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For Julian Day 358, selecting COMIDA2 results # 1 of 9
For Julian Day 362, selecting COMIDA2 results # 1 of 9
For Julian Day 364, selecting COMIDA2 results # 1 of 9
For Julian Day 364, selecting COMIDA2 results # 1 of 9
For Julian Day 365, selecting COMIDA2 results # 1 of 9
For Julian Day   2, selecting COMIDA2 results # 1 of 9
For Julian Day   3, selecting COMIDA2 results # 1 of 9
For Julian Day   5, selecting COMIDA2 results # 1 of 9
For Julian Day   8, selecting COMIDA2 results # 1 of 9
For Julian Day  10, selecting COMIDA2 results # 1 of 9
For Julian Day  38, selecting COMIDA2 results # 2 of 9
For Julian Day  47, selecting COMIDA2 results # 2 of 9
For Julian Day  49, selecting COMIDA2 results # 2 of 9
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For Julian Day  51, selecting COMIDA2 results # 2 of 9
For Julian Day  53, selecting COMIDA2 results # 2 of 9
For Julian Day  55, selecting COMIDA2 results # 2 of 9
For Julian Day  60, selecting COMIDA2 results # 2 of 9
For Julian Day  61, selecting COMIDA2 results # 2 of 9
For Julian Day  65, selecting COMIDA2 results # 2 of 9
For Julian Day  67, selecting COMIDA2 results # 2 of 9
For Julian Day  69, selecting COMIDA2 results # 2 of 9
For Julian Day  74, selecting COMIDA2 results # 2 of 9
For Julian Day  80, selecting COMIDA2 results # 2 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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For Julian Day 149, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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For Julian Day 127, selecting COMIDA2 results # 3 of 9
For Julian Day 138, selecting COMIDA2 results # 4 of 9
For Julian Day 139, selecting COMIDA2 results # 4 of 9
For Julian Day 140, selecting COMIDA2 results # 4 of 9
For Julian Day 141, selecting COMIDA2 results # 4 of 9
For Julian Day 148, selecting COMIDA2 results # 4 of 9
For Julian Day 148, selecting COMIDA2 results # 4 of 9
For Julian Day 149, selecting COMIDA2 results # 4 of 9
 DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS
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  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH
THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:


FRACTION OF THE PEOPLE

               ------
    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
                1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC"
DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN
LATER SECTIONS.

13-NOV-09  13:26:52    PAGE   1          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  2.00E+00  1.57E+00  3.69E+00
4.53E+00  7.54E+00  8.58E+00  1.21E+01  3.52E-05   69
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.95E-01  7.19E-01  1.44E+00
1.85E+00  2.09E+00  2.14E+00  2.81E+00  1.03E-06   74

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  4.48E+01  3.52E+01  8.62E+01
1.07E+02  1.53E+02  1.79E+02  2.71E+02  3.52E-05   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.02E-06  1.78E-06  3.69E-06
4.69E-06  5.54E-06  5.83E-06  7.13E-06  4.91E-06   30
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  1 OF  8:
    NCF

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  13:26:52    PAGE   2          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.46E-01  1.12E-01  2.76E-01
3.42E-01  5.23E-01  5.79E-01  7.78E-01  5.99E-04  116
 CAN FAT/TOTAL              0-16.1 km  1.0000  6.05E-02  5.34E-02  1.05E-01
1.17E-01  1.52E-01  1.69E-01  2.21E-01  3.71E-04    2
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  3.19E+00  2.76E+00  6.07E+00
7.44E+00  1.07E+01  1.19E+01  1.69E+01  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.55E-07  1.26E-07  2.77E-07
3.19E-07  3.96E-07  4.35E-07  5.67E-07  3.71E-04    2
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  13:26:52    PAGE   3          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.86E+00  1.42E+00  3.45E+00
4.24E+00  6.67E+00  7.80E+00  1.15E+01  3.52E-05   69
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.35E-01  6.78E-01  1.30E+00
1.64E+00  2.06E+00  2.10E+00  2.64E+00  1.03E-06   74

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  4.16E+01  3.35E+01  7.85E+01
9.93E+01  1.43E+02  1.67E+02  2.56E+02  3.52E-05   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.87E-06  1.56E-06  3.39E-06
4.26E-06  5.16E-06  5.27E-06  6.70E-06  1.03E-06   74
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L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  4.16E+01  3.35E+01  7.85E+01
9.93E+01  1.43E+02  1.67E+02  2.56E+02  3.52E-05   69
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  4.11E+01  3.35E+01  7.85E+01
9.93E+01  1.43E+02  1.67E+02  2.56E+02  3.52E-05   69
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.84E-01  1.55E-01  1.35E+00
1.83E+00  2.59E+00  2.94E+00  4.12E+00  2.85E-05   82
 LONG-TERM GROUNDSHINE DOSE             1.0000  3.99E+01  3.24E+01  7.43E+01
9.30E+01  1.40E+02  1.65E+02  2.48E+02  3.52E-05   69
 LONG-TERM RESUSPENSION DOSE            1.0000  1.24E+00  1.04E+00  2.35E+00
2.98E+00  4.38E+00  5.05E+00  7.74E+00  3.52E-05   69
 WATER INGESTION DOSE                   1.0000  2.25E-02  1.98E-02  3.90E-02
4.83E-02  6.17E-02  6.80E-02  7.60E-02  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    0.2590  2.97E-03  0.00E+00  1.11E-02
1.25E-02  1.66E-02  1.87E-02  2.29E-02  2.65E-03    2
 FARM-DEPENDENT DECONTAMINATION DOSE    0.2590  3.09E-07  0.00E+00  1.11E-06
1.25E-06  1.66E-06  1.87E-06  2.37E-06  2.65E-03    2
 INGESTION OF GRAINS                    1.0000  1.40E-02  3.61E-03  4.58E-02
5.97E-02  8.48E-02  9.55E-02  1.16E-01  2.85E-05   82
 INGESTION OF LEAF VEG                  1.0000  2.28E-02  5.01E-03  6.83E-02
9.39E-02  2.09E-01  2.56E-01  5.00E-01  2.85E-05   82
 INGESTION OF ROOT CROPS                1.0000  1.85E-02  5.00E-03  6.11E-02
7.80E-02  1.05E-01  1.10E-01  1.51E-01  2.85E-05   82
 INGESTION OF FRUITS                    1.0000  2.74E-02  7.21E-03  9.09E-02
1.10E-01  1.51E-01  1.72E-01  2.23E-01  2.85E-05   82
 INGESTION OF LEGUMES                   1.0000  1.59E-02  3.82E-03  5.35E-02
6.73E-02  9.93E-02  1.03E-01  1.29E-01  2.85E-05   82
 INGESTION OF BEEF                      1.0000  1.47E-01  5.09E-02  4.46E-01
6.00E-01  7.94E-01  8.55E-01  1.02E+00  1.09E-04   38
 INGESTION OF MILK                      1.0000  1.73E-01  4.51E-02  5.61E-01
7.29E-01  1.03E+00  1.09E+00  1.24E+00  9.42E-04   18
 INGESTION OF POULTRY                   1.0000  3.50E-02  1.14E-02  1.03E-01
1.37E-01  2.55E-01  3.18E-01  6.44E-01  2.85E-05   82
 INGESTION OF OTHER MEAT CROPS          1.0000  8.49E-03  4.24E-03  2.05E-02
2.76E-02  5.20E-02  6.20E-02  1.22E-01  2.85E-05   82

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   0.7246  8.84E+04  2.27E+03  3.15E+05
3.34E+05  3.81E+05  4.03E+05  4.98E+05  3.71E-04    2
 POP.-DEPENDENT COSTS                   0.2590  8.42E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  4.12E+05  1.68E-01    2
 FARM-DEPENDENT COSTS                   0.7246  4.21E+03  8.28E+02  1.25E+04
1.60E+04  2.48E+04  2.89E+04  8.56E+04  3.71E-04    2
 POP.-DEPENDENT DECONTAMINATION COST    0.2590  1.80E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  8.81E+04  1.68E-01    2
 FARM-DEPENDENT DECONTAMINATION COST    0.2590  1.44E+01  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  7.04E+01  1.68E-01    2
 POP.-DEPENDENT INTERDICTION COST       0.2590  6.62E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  3.24E+05  1.68E-01    2
 FARM-DEPENDENT INTERDICTION COST       0.6635  3.33E+03  6.04E+02  1.09E+04
1.26E+04  1.78E+04  2.16E+04  6.92E+04  3.71E-04    2
 POP.-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 FARM-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 EMERGENCY PHASE COST                   0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  13:26:52    PAGE   4          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                   NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
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ECONOMIC COST MEASURES ($) 0-80.5 km

MILK DISPOSAL COST					0.6399	9.79E+00	5.90E-01	2.93E+01	4.65E+01	1.58E+02
2.13E+02	3.37E+02	5.62E-04	31							
CROP DISPOSAL COST					0.5789	8.64E+02	1.45E+02	3.17E+03	3.50E+03	4.39E+03
4.85E+03	1.62E+04	3.77E-04	2							

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1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH
THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:


FRACTION OF THE PEOPLE

              ------
    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
               1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC"
DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN
LATER SECTIONS.

13-NOV-09  13:26:52    PAGE   5          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  3.81E+04  2.29E+04  8.96E+04
1.06E+05  1.29E+05  1.40E+05  1.93E+05  3.42E-04    2
 CAN FAT/TOTAL               0-16.1 km  1.0000  6.52E+03  6.06E+03  1.06E+04
1.19E+04  1.57E+04  1.77E+04  2.33E+04  5.14E-04   90

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.96E+05  3.25E+05  1.52E+06
2.03E+06  2.30E+06  2.43E+06  3.13E+06  3.42E-04    2

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.60E-02  1.34E-02  2.74E-02
3.19E-02  4.10E-02  4.57E-02  5.92E-02  5.14E-04   90
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
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13-NOV-09  13:26:52    PAGE   6          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  1.0000  1.70E+02  9.51E+01  4.20E+02
5.17E+02  6.20E+02  6.71E+02  9.91E+02  8.56E-05   59
 CAN FAT/TOTAL              0-80.5 km  1.0000  2.50E+04  1.60E+04  5.81E+04
8.55E+04  1.07E+05  1.10E+05  1.26E+05  3.42E-04   60
 CAN FAT/TOTAL              0-16.1 km  1.0000  6.12E+03  5.64E+03  1.03E+04
1.17E+04  1.56E+04  1.76E+04  2.29E+04  5.14E-04   90
 ERL FAT/TOTAL              0-16.1 km  1.0000  1.70E+02  9.51E+01  4.20E+02
5.17E+02  6.20E+02  6.71E+02  9.91E+02  8.56E-05   59

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  1.0000  1.62E-01  1.35E-01  2.10E-01
2.18E-01  2.40E-01  2.50E-01  2.81E-01  6.85E-04   47
 ERL FAT/TOTAL             0.3-1.6 km  0.8934  3.22E-02  2.51E-02  6.88E-02
7.17E-02  7.61E-02  7.81E-02  8.85E-02  1.71E-04   75
 ERL FAT/TOTAL             1.6-3.2 km  0.4994  2.08E-03  0.00E+00  7.59E-03
9.29E-03  2.32E-02 NOT-FOUND  2.51E-02  7.91E-03   59

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  3.00E+05  1.97E+05  7.31E+05
1.02E+06  1.13E+06  1.18E+06  1.64E+06  2.85E-05  150

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  1.0000  1.01E-02  5.24E-03  2.52E-02
3.10E-02  3.82E-02  4.18E-02  5.66E-02  8.56E-05   59
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.57E-02  1.31E-02  2.70E-02
3.17E-02  4.09E-02  4.56E-02  5.87E-02  5.14E-04   90
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  13:26:52    PAGE   7          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.31E+04  5.87E+03  3.45E+04
4.49E+04  5.50E+04  5.78E+04  7.61E+04  3.42E-04    2
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.92E+02  3.48E+02  5.30E+02
5.81E+02  7.11E+02  7.48E+02  9.31E+02  2.57E-04  155

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  2.95E+05  1.31E+05  7.73E+05
9.79E+05  1.19E+06  1.29E+06  1.74E+06  3.42E-04    2

POPULATION WEIGHTED RISK
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 CAN FAT/TOTAL                0-16.1 km  0.9507  3.52E-04  3.26E-04  5.59E-04
6.59E-04  9.77E-04  1.06E-03  1.43E-03  2.57E-04    2

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  2.95E+05  1.31E+05  7.73E+05
9.79E+05  1.19E+06  1.29E+06  1.74E+06  3.42E-04    2
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  2.23E+05  9.18E+04  5.95E+05
7.10E+05  7.93E+05  8.32E+05  1.02E+06  3.42E-04    2
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.10E+03  3.61E+03  6.48E+03
7.46E+03  9.75E+03  1.02E+04  1.17E+04  2.43E-04    3
 LONG-TERM GROUNDSHINE DOSE             1.0000  2.15E+05  8.87E+04  5.69E+05
6.92E+05  7.84E+05  8.24E+05  1.01E+06  3.42E-04    2
 LONG-TERM RESUSPENSION DOSE            1.0000  8.24E+03  2.87E+03  2.16E+04
2.37E+04  2.95E+04  3.06E+04  3.69E+04  2.35E-05   33
 WATER INGESTION DOSE                   1.0000  3.92E+03  3.45E+03  6.30E+03
7.35E+03  9.72E+03  1.02E+04  1.17E+04  2.43E-04    3
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  6.80E+04  3.04E+04  1.83E+05
2.68E+05  5.17E+05  5.50E+05  7.10E+05  3.42E-04    2
 FARM-DEPENDENT DECONTAMINATION DOSE    0.9996  4.16E+01  1.74E+01  1.04E+02
1.17E+02  1.51E+02  1.69E+02  2.88E+02  8.56E-05    2
 INGESTION OF GRAINS                    0.9996  3.56E+00  1.59E+00  9.37E+00
1.12E+01  1.59E+01  1.84E+01  2.82E+01  6.18E-05   49
 INGESTION OF LEAF VEG                  0.9996  2.80E+01  1.34E+01  7.21E+01
8.86E+01  1.10E+02  1.16E+02  1.59E+02  8.56E-05    2
 INGESTION OF ROOT CROPS                0.9996  1.70E+01  7.38E+00  4.23E+01
5.16E+01  6.42E+01  7.03E+01  9.86E+01  8.56E-05    2
 INGESTION OF FRUITS                    0.9996  1.48E+01  6.59E+00  3.69E+01
4.51E+01  5.34E+01  5.54E+01  6.85E+01  8.56E-05    2
 INGESTION OF LEGUMES                   0.9996  3.32E+01  1.47E+01  8.36E+01
1.02E+02  1.20E+02  1.28E+02  1.92E+02  8.56E-05    2
 INGESTION OF BEEF                      0.9996  3.85E+01  1.05E+01  1.22E+02
1.88E+02  3.18E+02  3.45E+02  5.53E+02  8.56E-05  127
 INGESTION OF MILK                      0.9996  3.87E+01  1.25E+01  1.13E+02
2.03E+02  3.33E+02  3.73E+02  4.57E+02  1.43E-03  123
 INGESTION OF POULTRY                   0.9996  9.54E+00  2.91E+00  3.25E+01
4.29E+01  5.99E+01  6.63E+01  8.67E+01  5.14E-04  115
 INGESTION OF OTHER MEAT CROPS          0.9996  4.43E+00  1.22E+00  1.57E+01
2.20E+01  3.06E+01  3.33E+01  4.40E+01  5.14E-04  115

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  2.08E+11  1.12E+11  5.28E+11
6.50E+11  1.06E+12  1.13E+12  1.47E+12  3.42E-04    2
 POP.-DEPENDENT COSTS                   1.0000  2.07E+11  1.12E+11  5.28E+11
6.50E+11  1.06E+12  1.13E+12  1.47E+12  3.42E-04    2
 FARM-DEPENDENT COSTS                   1.0000  4.14E+08  2.33E+08  1.02E+09
1.08E+09  1.22E+09  1.28E+09  1.47E+09  8.28E-04  150
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  4.13E+10  1.56E+10  1.03E+11
1.09E+11  1.24E+11  1.31E+11  2.00E+11  2.85E-05  150
 FARM-DEPENDENT DECONTAMINATION COST    0.9996  3.84E+07  1.78E+07  9.68E+07
1.07E+08  1.26E+08  1.36E+08  1.65E+08  8.28E-04  150
 POP.-DEPENDENT INTERDICTION COST       1.0000  1.49E+11  7.09E+10  3.75E+11
4.78E+11  7.70E+11  8.21E+11  1.27E+12  3.42E-04    2
 FARM-DEPENDENT INTERDICTION COST       0.9996  3.17E+08  1.41E+08  7.70E+08
8.59E+08  1.05E+09  1.10E+09  1.24E+09  8.28E-04  150
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.71E+10  9.04E+09  4.54E+10
5.27E+10  6.21E+10  6.67E+10  7.37E+10  1.54E-04   47
 FARM-DEPENDENT CONDEMNATION COST       1.0000  1.80E+07  1.16E+07  5.09E+07
5.35E+07  6.00E+07  6.31E+07  1.36E+08  2.85E-05  109
 EMERGENCY PHASE COST                   1.0000  2.62E+08  1.24E+08  4.70E+08
9.24E+08  2.10E+09  2.20E+09  2.65E+09  3.42E-04    2
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
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                                PEAK      PEAK  PEAK
                                             NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                          1.0000  1.05E+06  2.77E+05  2.84E+06
3.43E+06  5.02E+06  5.27E+06  6.26E+06  4.09E-04    2
 CROP DISPOSAL COST                          1.0000  3.94E+07  3.80E+07  5.90E+07
6.47E+07  7.55E+07  7.94E+07  9.89E+07  2.57E-04  150
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    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  13:26:52    PAGE  10          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.8068  4.80E+00  1.80E+00  1.44E+01
2.00E+01  2.14E+01  2.20E+01  2.62E+01  6.93E-05   75
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.19E+03  3.51E+03  1.11E+04
1.51E+04  3.20E+04  3.43E+04  4.72E+04  2.28E-04  106
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.10E+03  1.04E+03  1.83E+03
2.14E+03  2.77E+03  3.05E+03  3.69E+03  5.14E-04   90
 ERL FAT/TOTAL               0-16.1 km  0.8068  4.80E+00  1.80E+00  1.44E+01
2.00E+01  2.14E+01  2.20E+01  2.62E+01  6.93E-05   75

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.8068  2.25E-02  8.21E-03  6.34E-02
7.19E-02  8.03E-02  8.42E-02  9.62E-02  7.13E-04   75
 ERL FAT/TOTAL              0.3-1.6 km  0.0496  1.37E-05  0.00E+00  0.00E+00
0.00E+00  4.48E-04 NOT-FOUND  6.86E-04  7.91E-03   59
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  6.98E+04  4.13E+04  1.58E+05
2.38E+05  3.49E+05  3.81E+05  5.86E+05  2.28E-04  106

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.8068  2.88E-04  1.08E-04  9.08E-04
1.03E-03  1.14E-03  1.19E-03  1.57E-03  6.93E-05   75
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.82E-03  2.65E-03  4.69E-03
5.43E-03  7.10E-03  7.59E-03  9.46E-03  5.14E-04   90
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  13:26:52    PAGE  11          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.36E+03  2.56E+03  1.30E+04
1.67E+04  2.20E+04  2.33E+04  2.97E+04  2.90E-04   56
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.66E+02  2.51E+02  3.77E+02
4.23E+02  5.22E+02  5.48E+02  8.40E+02  6.20E-06   47

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.19E+05  5.65E+04  3.24E+05
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3.82E+05  5.16E+05  5.42E+05  6.59E+05  2.90E-04   56

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  3.69E-04  3.32E-04  5.50E-04
6.00E-04  7.32E-04  7.92E-04  1.16E-03  6.20E-06   47

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  1.19E+05  5.65E+04  3.24E+05
3.82E+05  5.16E+05  5.42E+05  6.59E+05  2.90E-04   56
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  1.07E+05  4.57E+04  3.10E+05
3.55E+05  4.85E+05  5.17E+05  6.14E+05  2.90E-04   56
 TOTAL INGESTION PATHWAYS DOSE           1.0000  4.29E+02  3.67E+02  7.12E+02
7.50E+02  8.44E+02  8.88E+02  1.20E+03  2.07E-05   74
 LONG-TERM GROUNDSHINE DOSE              1.0000  9.93E+04  4.34E+04  2.82E+05
3.19E+05  3.79E+05  4.08E+05  5.69E+05  2.90E-04   56
 LONG-TERM RESUSPENSION DOSE             1.0000  7.91E+03  3.23E+03  2.17E+04
2.65E+04  3.33E+04  3.55E+04  4.57E+04  2.90E-04   56
 WATER INGESTION DOSE                    1.0000  2.63E+02  2.40E+02  4.18E+02
5.00E+02  7.03E+02  7.37E+02  8.74E+02  4.00E-04  107
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  1.13E+04  7.86E+03  2.27E+04
2.95E+04  6.59E+04  7.37E+04  1.23E+05  3.42E-04    2
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  7.54E+00  3.29E+00  2.10E+01
2.58E+01  3.17E+01  3.29E+01  4.29E+01  2.74E-05   71
 INGESTION OF GRAINS                     1.0000  4.85E+00  1.21E+00  1.49E+01
2.03E+01  2.47E+01  2.69E+01  4.09E+01  6.87E-06   79
 INGESTION OF LEAF VEG                   1.0000  1.20E+01  5.10E+00  2.71E+01
4.00E+01  1.05E+02  1.14E+02  2.16E+02  6.87E-06   79
 INGESTION OF ROOT CROPS                 1.0000  7.33E+00  3.05E+00  2.20E+01
2.68E+01  3.27E+01  3.44E+01  5.39E+01  6.87E-06   79
 INGESTION OF FRUITS                     1.0000  1.11E+01  4.82E+00  3.18E+01
3.67E+01  5.03E+01  5.25E+01  7.93E+01  6.87E-06   79
 INGESTION OF LEGUMES                    1.0000  8.99E+00  4.33E+00  2.28E+01
2.73E+01  3.21E+01  3.34E+01  4.80E+01  6.87E-06   79
 INGESTION OF BEEF                       1.0000  6.28E+01  2.99E+01  1.45E+02
1.90E+02  3.10E+02  3.43E+02  4.45E+02  8.28E-04  128
 INGESTION OF MILK                       1.0000  3.81E+01  1.61E+01  8.96E+01
1.37E+02  2.55E+02  3.00E+02  3.18E+02  9.42E-04  123
 INGESTION OF POULTRY                    1.0000  1.58E+01  7.94E+00  3.73E+01
4.91E+01  1.01E+02  1.07E+02  1.92E+02  6.87E-06   79
 INGESTION OF OTHER MEAT CROPS           1.0000  4.90E+00  2.46E+00  1.26E+01
1.81E+01  2.18E+01  2.27E+01  3.35E+01  6.87E-06   79

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  5.49E+10  2.65E+10  1.62E+11
2.12E+11  2.57E+11  2.79E+11  4.30E+11  3.42E-04    2
 POP.-DEPENDENT COSTS                    1.0000  5.48E+10  2.64E+10  1.62E+11
2.12E+11  2.57E+11  2.79E+11  4.30E+11  3.42E-04    2
 FARM-DEPENDENT COSTS                    1.0000  1.86E+08  9.12E+07  5.32E+08
6.48E+08  9.28E+08  1.01E+09  1.11E+09  8.56E-05    2
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.37E+10  6.66E+09  3.47E+10
5.43E+10  7.78E+10  8.35E+10  1.32E+11  3.42E-04    2
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.42E+07  6.21E+06  3.44E+07
4.00E+07  5.57E+07  6.31E+07  8.54E+07  8.56E-05    2
 POP.-DEPENDENT INTERDICTION COST        1.0000  4.01E+10  1.91E+10  1.08E+11
1.52E+11  2.20E+11  2.34E+11  2.98E+11  3.42E-04    2
 FARM-DEPENDENT INTERDICTION COST        1.0000  1.51E+08  5.93E+07  4.41E+08
5.75E+08  7.38E+08  7.67E+08  9.78E+08  5.71E-05  150
 POP.-DEPENDENT CONDEMNATION COST        0.9936  9.28E+08  6.89E+08  1.84E+09
2.28E+09  3.34E+09  3.85E+09  5.57E+09  4.05E-04   27
 FARM-DEPENDENT CONDEMNATION COST        0.9872  3.01E+05  2.57E+05  5.98E+05
8.44E+05  1.48E+06  1.86E+06  3.22E+06  2.67E-04   27
 EMERGENCY PHASE COST                    1.0000  1.68E+07  1.16E+07  3.22E+07
5.51E+07  7.56E+07  8.19E+07  3.74E+08  4.00E-04  109
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 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  13:26:52    PAGE  12          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  6.72E+05  5.02E+04  2.04E+06
2.79E+06  4.14E+06  4.84E+06  6.26E+06  2.67E-04  151
 CROP DISPOSAL COST                     1.0000  1.93E+07  1.43E+07  3.97E+07
5.02E+07  5.92E+07  6.35E+07  8.38E+07  2.57E-04  150
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RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  13:26:52    PAGE  14          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0669  2.71E-03  0.00E+00  0.00E+00
1.05E-02  8.19E-02 NOT-FOUND  1.61E-01  6.39E-03   59
 CAN FAT/TOTAL              0-80.5 km  1.0000  6.53E+02  5.19E+02  1.28E+03
1.75E+03  3.16E+03  3.35E+03  4.31E+03  2.28E-04  106
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.00E+02  1.78E+02  3.25E+02
3.55E+02  4.37E+02  4.78E+02  5.65E+02  2.56E-05   28
 ERL FAT/TOTAL              0-16.1 km  0.0669  2.71E-03  0.00E+00  0.00E+00
1.05E-02  8.19E-02 NOT-FOUND  1.61E-01  6.39E-03   59

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0669  1.16E-05  0.00E+00  0.00E+00
5.51E-05  4.21E-04 NOT-FOUND  5.90E-04  7.91E-03   59
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.12E+04  8.00E+03  2.32E+04
3.02E+04  5.45E+04  5.79E+04  8.02E+04  2.28E-04  106

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0669  1.62E-07  0.00E+00  0.00E+00
7.22E-07  4.24E-06 NOT-FOUND  9.63E-06  6.39E-03   59
 CAN FAT/TOTAL              0-16.1 km  1.0000  5.13E-04  4.73E-04  8.38E-04
9.64E-04  1.07E-03  1.11E-03  1.45E-03  2.56E-05   28
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  13:26:52    PAGE  15          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  2.72E+03  1.24E+03  7.32E+03
1.03E+04  1.19E+04  1.27E+04  2.20E+04  3.52E-05   41
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.43E+02  1.22E+02  2.13E+02
2.30E+02  2.74E+02  2.96E+02  3.60E+02  6.20E-06   47
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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  6.04E+04  2.76E+04  1.68E+05
2.37E+05  3.22E+05  3.39E+05  4.88E+05  3.52E-05   41

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.97E-04  2.83E-04  4.79E-04
5.18E-04  5.72E-04  5.98E-04  7.59E-04  1.19E-04  151

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  6.04E+04  2.76E+04  1.68E+05
2.37E+05  3.22E+05  3.39E+05  4.88E+05  3.52E-05   41
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  5.92E+04  2.60E+04  1.67E+05
2.37E+05  3.22E+05  3.39E+05  4.87E+05  3.52E-05   41
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.65E+02  1.16E+02  3.27E+02
3.72E+02  5.01E+02  5.18E+02  6.95E+02  1.37E-05   70
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.66E+04  2.53E+04  1.62E+05
2.26E+05  3.14E+05  3.29E+05  4.65E+05  3.52E-05   41
 LONG-TERM RESUSPENSION DOSE            1.0000  2.60E+03  1.15E+03  7.27E+03
1.03E+04  1.19E+04  1.27E+04  2.20E+04  3.52E-05   41
 WATER INGESTION DOSE                   1.0000  5.71E+01  5.32E+01  9.91E+01
1.08E+02  1.32E+02  1.44E+02  1.96E+02  4.00E-04  107
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  1.04E+03  8.53E+02  1.84E+03
2.31E+03  5.10E+03  5.51E+03  1.07E+04  3.42E-04    2
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  5.58E-01  2.96E-01  1.29E+00
2.03E+00  3.20E+00  3.49E+00  5.35E+00  1.14E-04  107
 INGESTION OF GRAINS                    1.0000  3.64E+00  6.17E-01  1.15E+01
1.35E+01  1.98E+01  2.10E+01  2.91E+01  5.71E-05   52
 INGESTION OF LEAF VEG                  1.0000  6.29E+00  1.49E+00  1.70E+01
2.58E+01  5.30E+01  5.73E+01  1.12E+02  1.37E-05   70
 INGESTION OF ROOT CROPS                1.0000  4.94E+00  1.02E+00  1.46E+01
2.01E+01  2.65E+01  2.98E+01  3.82E+01  5.71E-05   52
 INGESTION OF FRUITS                    1.0000  7.50E+00  1.89E+00  2.40E+01
3.00E+01  3.78E+01  4.17E+01  5.65E+01  5.71E-05   52
 INGESTION OF LEGUMES                   1.0000  4.63E+00  1.46E+00  1.28E+01
1.60E+01  2.27E+01  2.50E+01  3.32E+01  5.71E-05   52
 INGESTION OF BEEF                      1.0000  4.16E+01  2.06E+01  1.07E+02
1.28E+02  1.95E+02  2.09E+02  2.53E+02  3.71E-04  121
 INGESTION OF MILK                      1.0000  2.50E+01  1.28E+01  5.84E+01
7.71E+01  1.16E+02  1.27E+02  1.79E+02  3.71E-04  121
 INGESTION OF POULTRY                   1.0000  1.08E+01  5.20E+00  2.59E+01
3.39E+01  5.52E+01  6.06E+01  1.27E+02  1.37E-05   70
 INGESTION OF OTHER MEAT CROPS          1.0000  3.24E+00  1.52E+00  8.86E+00
1.06E+01  1.31E+01  1.43E+01  2.29E+01  8.56E-05  106

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  1.06E+10  5.52E+09  2.00E+10
3.56E+10  1.03E+11  1.17E+11  2.00E+11  2.28E-04  106
 POP.-DEPENDENT COSTS                   1.0000  1.05E+10  5.44E+09  2.00E+10
3.56E+10  1.03E+11  1.17E+11  2.00E+11  2.28E-04  106
 FARM-DEPENDENT COSTS                   1.0000  9.11E+07  3.27E+07  2.87E+08
3.53E+08  5.24E+08  5.86E+08  8.29E+08  8.56E-05    2
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  2.35E+09  1.19E+09  5.43E+09
8.04E+09  2.15E+10  2.33E+10  4.28E+10  2.28E-04  106
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.96E+06  1.04E+06  8.69E+06
1.08E+07  1.46E+07  1.67E+07  2.47E+07  2.85E-04  106
 POP.-DEPENDENT INTERDICTION COST       1.0000  8.04E+09  4.02E+09  1.78E+10
2.58E+10  7.45E+10  8.00E+10  1.57E+11  2.28E-04  106
 FARM-DEPENDENT INTERDICTION COST       1.0000  7.70E+07  1.95E+07  2.50E+08
3.22E+08  4.77E+08  5.30E+08  7.58E+08  8.56E-05    2
 POP.-DEPENDENT CONDEMNATION COST       0.9682  9.72E+07  1.02E+08  2.09E+08
3.04E+08  4.03E+08  4.55E+08  1.05E+09  3.69E-05    3
 FARM-DEPENDENT CONDEMNATION COST       0.9082  2.77E+04  8.05E+03  7.72E+04
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8.36E+04 1.02E+05 1.30E+05 2.90E+05 1.86E-04   14
 EMERGENCY PHASE COST 1.0000 2.04E+06 1.63E+06 4.11E+06
5.33E+06 7.36E+06 7.94E+06 1.02E+07 3.42E-04 107
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
13-NOV-09 13:26:52 PAGE 16 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($) 0-80.5 km
 MILK DISPOSAL COST 1.0000 4.35E+05 3.24E+04 1.36E+06
1.89E+06 3.18E+06 3.43E+06 5.60E+06 1.43E-04   2
 CROP DISPOSAL COST 1.0000 1.06E+07 7.43E+06 2.57E+07
3.16E+07 4.04E+07 4.50E+07 5.73E+07 3.71E-04   2
XXXX

XXXX

XXXX

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SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  13:26:52    PAGE  18          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.2435  9.33E-02  0.00E+00  1.87E-01
7.73E-01  1.46E+00  1.74E+00  3.59E+00  2.65E-03    2
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.58E+03  1.14E+03  3.22E+03
3.94E+03  7.06E+03  7.70E+03  1.04E+04  5.99E-04  116
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.10E+02  3.56E+02  7.14E+02
8.52E+02  1.07E+03  1.13E+03  1.36E+03  3.71E-04    2
 ERL FAT/TOTAL               0-16.1 km  0.2435  9.33E-02  0.00E+00  1.87E-01
7.73E-01  1.46E+00  1.74E+00  3.59E+00  2.65E-03    2

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.2435  4.49E-04  0.00E+00  1.16E-03
3.15E-03  4.49E-03 NOT-FOUND  1.32E-02  5.17E-03    2
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.47E+04  2.36E+04  7.70E+04
1.03E+05  1.39E+05  1.58E+05  2.50E+05  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.2435  5.59E-06  0.00E+00  1.04E-05
4.09E-05  8.47E-05  9.28E-05  2.16E-04  2.65E-03    2
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.05E-03  9.87E-04  1.67E-03
2.04E-03  2.60E-03  2.89E-03  3.49E-03  3.71E-04    2
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  13:26:52    PAGE  19          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.38E+03  2.49E+03  1.32E+04
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1.69E+04  2.17E+04  2.28E+04  2.66E+04  5.99E-04   86
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.22E+02  2.08E+02  3.07E+02
3.17E+02  3.40E+02  3.51E+02  5.05E+02  1.55E-06   29

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.21E+05  5.42E+04  3.19E+05
3.73E+05  5.09E+05  5.29E+05  5.95E+05  5.99E-04   86

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.99E-04  3.58E-04  6.16E-04
7.00E-04  7.62E-04  7.91E-04  8.46E-04  1.40E-03  143

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.21E+05  5.42E+04  3.19E+05
3.73E+05  5.09E+05  5.29E+05  5.95E+05  5.99E-04   86
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.15E+05  4.77E+04  3.13E+05
3.64E+05  5.03E+05  5.18E+05  5.69E+05  5.99E-04   86
 TOTAL INGESTION PATHWAYS DOSE          1.0000  3.78E+02  3.28E+02  6.59E+02
7.41E+02  8.95E+02  9.71E+02  1.11E+03  9.85E-05   30
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.13E+05  4.65E+04  3.08E+05
3.44E+05  4.45E+05  4.97E+05  5.57E+05  5.99E-04   86
 LONG-TERM RESUSPENSION DOSE            1.0000  2.55E+03  1.01E+03  7.24E+03
8.50E+03  1.04E+04  1.07E+04  1.36E+04  2.35E-05   33
 WATER INGESTION DOSE                   1.0000  3.18E+02  2.76E+02  5.65E+02
6.83E+02  8.68E+02  9.58E+02  1.08E+03  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.70E+03  3.25E+03  1.04E+04
1.37E+04  2.37E+04  2.84E+04  4.40E+04  3.52E-05   69
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.70E+00  1.67E+00  1.03E+01
1.16E+01  1.51E+01  1.69E+01  2.58E+01  1.14E-04  107
 INGESTION OF GRAINS                    1.0000  1.98E+00  7.31E-01  6.18E+00
7.68E+00  1.04E+01  1.10E+01  1.41E+01  2.00E-04    2
 INGESTION OF LEAF VEG                  1.0000  3.83E+00  1.88E+00  1.03E+01
1.29E+01  2.06E+01  2.25E+01  3.79E+01  4.12E-05   71
 INGESTION OF ROOT CROPS                1.0000  2.94E+00  1.28E+00  8.52E+00
1.03E+01  1.22E+01  1.32E+01  1.87E+01  2.00E-04    2
 INGESTION OF FRUITS                    1.0000  5.63E+00  2.72E+00  1.35E+01
1.76E+01  2.15E+01  2.24E+01  2.84E+01  8.56E-05    2
 INGESTION OF LEGUMES                   1.0000  3.44E+00  1.72E+00  8.57E+00
1.02E+01  1.15E+01  1.22E+01  1.68E+01  8.56E-05    2
 INGESTION OF BEEF                      1.0000  1.92E+01  7.43E+00  5.30E+01
7.30E+01  1.07E+02  1.14E+02  2.06E+02  6.93E-06  133
 INGESTION OF MILK                      1.0000  1.38E+01  4.34E+00  4.25E+01
6.08E+01  1.01E+02  1.04E+02  1.45E+02  5.20E-06  132
 INGESTION OF POULTRY                   1.0000  5.89E+00  3.17E+00  1.30E+01
1.61E+01  2.40E+01  2.77E+01  4.80E+01  4.12E-05   71
 INGESTION OF OTHER MEAT CROPS          1.0000  3.52E+00  1.22E+00  1.13E+01
1.51E+01  2.22E+01  2.40E+01  3.02E+01  6.56E-04  116

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  4.25E+10  2.04E+10  1.07E+11
2.00E+11  2.42E+11  2.62E+11  3.79E+11  1.11E-03   18
 POP.-DEPENDENT COSTS                   1.0000  4.23E+10  2.02E+10  1.07E+11
2.00E+11  2.42E+11  2.62E+11  3.79E+11  1.11E-03   18
 FARM-DEPENDENT COSTS                   1.0000  2.60E+08  1.41E+08  7.21E+08
7.89E+08  9.72E+08  1.02E+09  1.24E+09  7.28E-05  154
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.01E+10  4.25E+09  2.47E+10
3.55E+10  7.01E+10  7.89E+10  1.16E+11  5.87E-05   68
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.19E+07  4.80E+06  3.15E+07
3.63E+07  5.16E+07  7.02E+07  8.04E+07  9.42E-04   18
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.10E+10  1.31E+10  7.87E+10
1.18E+11  2.01E+11  2.21E+11  2.72E+11  1.11E-03   18
 FARM-DEPENDENT INTERDICTION COST       1.0000  2.14E+08  8.67E+07  6.20E+08
7.24E+08  8.63E+08  9.31E+08  1.12E+09  6.53E-04  154
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 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.24E+09  9.42E+08  2.55E+09
3.25E+09  5.93E+09  7.17E+09  7.25E+09  4.11E-03  106
 FARM-DEPENDENT CONDEMNATION COST       1.0000  4.86E+05  3.19E+05  1.14E+06
1.56E+06  2.22E+06  2.38E+06  3.22E+06  1.25E-04   40
 EMERGENCY PHASE COST                   1.0000  8.35E+06  6.59E+06  1.41E+07
1.89E+07  4.91E+07  5.49E+07  6.74E+07  1.20E-03  107
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  13:26:52    PAGE  20          PROB                            QUANTILES
                            PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  9.63E+05  2.05E+05  2.75E+06
3.37E+06  5.01E+06  5.21E+06  6.63E+06  7.28E-05  154
 CROP DISPOSAL COST                     1.0000  3.26E+07  3.17E+07  5.59E+07
6.12E+07  7.26E+07  7.58E+07  9.89E+07  7.08E-05  154
XXXX
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XXXX

XXXX

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  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  13:26:52    PAGE  22          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  4.11E+02  3.26E+02  8.23E+02
1.03E+03  1.39E+03  1.58E+03  2.42E+03  5.99E-04  116
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.46E+02  1.23E+02  2.49E+02
3.01E+02  3.46E+02  3.67E+02  4.47E+02  5.14E-04   90
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  7.64E+03  5.89E+03  1.58E+04
2.10E+04  3.15E+04  3.52E+04  4.91E+04  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.73E-04  3.32E-04  6.37E-04
7.34E-04  9.10E-04  9.98E-04  1.14E-03  5.14E-04   90
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  13:26:52    PAGE  23          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  2.57E+03  1.20E+03  6.60E+03
9.76E+03  1.37E+04  1.58E+04  2.40E+04  5.87E-05   67
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.43E+02  1.18E+02  2.08E+02
2.27E+02  2.76E+02  3.00E+02  3.56E+02  1.55E-06   29

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  5.73E+04  2.65E+04  1.51E+05
2.14E+05  3.11E+05  3.31E+05  5.35E+05  5.87E-05   67

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.05E-04  2.97E-04  4.56E-04
5.12E-04  5.72E-04  6.00E-04  7.41E-04  2.57E-04  149

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  5.73E+04  2.65E+04  1.51E+05
2.14E+05  3.11E+05  3.31E+05  5.35E+05  5.87E-05   67
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  5.64E+04  2.60E+04  1.50E+05
2.14E+05  3.11E+05  3.31E+05  5.34E+05  5.87E-05   67
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.42E+02  1.10E+02  2.62E+02
3.03E+02  3.26E+02  3.36E+02  4.46E+02  1.03E-05   62
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.42E+04  2.48E+04  1.46E+05
2.11E+05  3.07E+05  3.28E+05  5.13E+05  5.87E-05   67
 LONG-TERM RESUSPENSION DOSE            1.0000  2.21E+03  1.01E+03  5.73E+03
8.31E+03  1.14E+04  1.23E+04  2.14E+04  5.87E-05   67
 WATER INGESTION DOSE                   1.0000  6.01E+01  5.18E+01  1.02E+02
1.10E+02  1.30E+02  1.39E+02  2.03E+02  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.25E+02  5.94E+02  1.27E+03
1.53E+03  2.25E+03  2.56E+03  5.46E+03  2.35E-05   70
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.68E-01  2.64E-01  1.09E+00
1.67E+00  2.68E+00  3.05E+00  4.58E+00  5.71E-05  121
 INGESTION OF GRAINS                    1.0000  2.88E+00  5.17E-01  9.54E+00
1.11E+01  1.48E+01  1.68E+01  2.31E+01  2.85E-05   26
 INGESTION OF LEAF VEG                  1.0000  4.84E+00  1.23E+00  1.47E+01
2.16E+01  3.56E+01  4.21E+01  6.24E+01  1.03E-05   62
 INGESTION OF ROOT CROPS                1.0000  3.92E+00  7.98E-01  1.17E+01
1.43E+01  2.05E+01  2.15E+01  3.04E+01  2.85E-05   26
 INGESTION OF FRUITS                    1.0000  6.01E+00  1.61E+00  1.86E+01
2.28E+01  3.07E+01  3.21E+01  4.49E+01  2.85E-05   26
 INGESTION OF LEGUMES                   1.0000  3.65E+00  1.16E+00  1.12E+01
1.35E+01  2.02E+01  2.08E+01  2.61E+01  2.85E-05   26
 INGESTION OF BEEF                      1.0000  2.88E+01  1.47E+01  7.40E+01
8.72E+01  1.14E+02  1.25E+02  2.04E+02  1.43E-04  119
 INGESTION OF MILK                      1.0000  2.05E+01  1.02E+01  5.20E+01
6.25E+01  7.68E+01  8.11E+01  1.14E+02  1.43E-04  119
 INGESTION OF POULTRY                   1.0000  8.13E+00  3.66E+00  2.03E+01
2.88E+01  4.34E+01  5.03E+01  7.47E+01  1.03E-05   62
 INGESTION OF OTHER MEAT CROPS          1.0000  3.21E+00  1.37E+00  9.63E+00
1.20E+01  1.85E+01  2.05E+01  2.49E+01  2.00E-04   96

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.84E+09  4.03E+09  1.09E+10
1.57E+10  3.33E+10  3.71E+10  1.24E+11  3.52E-05   69
 POP.-DEPENDENT COSTS                   1.0000  5.74E+09  3.96E+09  1.09E+10
1.57E+10  3.33E+10  3.71E+10  1.24E+11  3.52E-05   69
 FARM-DEPENDENT COSTS                   1.0000  1.08E+08  3.89E+07  3.32E+08
4.02E+08  6.99E+08  7.26E+08  8.92E+08  1.09E-04  154
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.30E+09  9.51E+08  2.88E+09
3.98E+09  7.59E+09  8.24E+09  2.66E+10  3.52E-05   69
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.13E+06  8.05E+05  6.04E+06
8.06E+06  1.07E+07  1.12E+07  1.81E+07  6.93E-06   69
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.29E+09  3.08E+09  9.07E+09
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1.32E+10  2.43E+10  2.96E+10  9.74E+10  3.52E-05   69
 FARM-DEPENDENT INTERDICTION COST       1.0000  9.15E+07  2.25E+07  3.00E+08
3.60E+08  5.99E+08  7.11E+08  8.34E+08  1.09E-04  154
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.41E+08  1.04E+08  3.41E+08
4.01E+08  5.74E+08  6.64E+08  1.05E+09  6.77E-04    2
 FARM-DEPENDENT CONDEMNATION COST       0.9635  3.43E+04  8.92E+03  7.77E+04
8.28E+04  9.60E+04  1.29E+05  2.90E+05  9.22E-04    2
 EMERGENCY PHASE COST                   1.0000  1.55E+06  1.09E+06  3.21E+06
5.01E+06  8.12E+06  9.52E+06  1.01E+07  4.02E-03  121
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  13:26:52    PAGE  24          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  5.58E+05  4.26E+04  1.58E+06
2.34E+06  3.76E+06  4.29E+06  6.26E+06  7.28E-05  154
 CROP DISPOSAL COST                     1.0000  1.42E+07  1.02E+07  3.25E+07
3.97E+07  5.41E+07  5.78E+07  8.18E+07  7.08E-05  154
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XXXX

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1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  13:26:52    PAGE  26          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  7.21E+01  6.01E+01  1.33E+02
1.66E+02  2.49E+02  2.89E+02  3.97E+02  5.99E-04  116
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.75E+01  2.41E+01  5.26E+01
6.53E+01  7.53E+01  7.81E+01  9.90E+01  5.71E-05  109
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.54E+03  1.16E+03  3.02E+03
3.63E+03  5.30E+03  5.85E+03  8.66E+03  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.04E-05  6.26E-05  1.28E-04
1.67E-04  2.09E-04  2.14E-04  2.53E-04  5.71E-05  109
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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                                PROB                                QUANTILES
                        PEAK      PEAK  PEAK
                                NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  6.17E+02  3.71E+02  1.38E+03
1.88E+03  3.10E+03  3.29E+03  5.32E+03  3.52E-05   69
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.59E+01  7.09E+01  1.06E+02
1.11E+02  1.23E+02  1.28E+02  2.08E+02  3.37E-06   29

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.38E+04  8.38E+03  3.19E+04
4.06E+04  6.65E+04  8.03E+04  1.19E+05  3.52E-05   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.84E-04  1.61E-04  2.76E-04
3.05E-04  3.32E-04  3.44E-04  5.07E-04  3.37E-06   29

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.38E+04  8.38E+03  3.19E+04
4.06E+04  6.65E+04  8.03E+04  1.19E+05  3.52E-05   69
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.37E+04  8.30E+03  3.19E+04
4.06E+04  6.65E+04  8.03E+04  1.19E+05  3.52E-05   69
 TOTAL INGESTION PATHWAYS DOSE          1.0000  9.06E+01  3.63E+01  2.77E+02
3.28E+02  4.24E+02  4.73E+02  5.55E+02  1.09E-04   38
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.31E+04  7.82E+03  3.10E+04
3.88E+04  6.59E+04  7.80E+04  1.14E+05  3.52E-05   69
 LONG-TERM RESUSPENSION DOSE            1.0000  5.96E+02  3.61E+02  1.34E+03
1.79E+03  2.93E+03  3.17E+03  5.24E+03  3.52E-05   69
 WATER INGESTION DOSE                   1.0000  1.22E+01  1.04E+01  2.16E+01
2.67E+01  3.21E+01  3.34E+01  4.07E+01  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.59E+01  6.35E+01  1.49E+02
1.96E+02  2.28E+02  2.42E+02  3.27E+02  5.71E-05  109
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.42E-02  2.29E-02  7.97E-02
1.12E-01  1.87E-01  2.29E-01  3.44E-01  5.71E-05  121
 INGESTION OF GRAINS                    1.0000  3.12E+00  3.97E-01  1.07E+01
1.29E+01  1.97E+01  2.22E+01  2.74E+01  1.43E-03   18
 INGESTION OF LEAF VEG                  1.0000  5.22E+00  7.20E-01  1.53E+01
2.34E+01  5.08E+01  5.24E+01  6.94E+01  1.04E-05   69
 INGESTION OF ROOT CROPS                1.0000  4.20E+00  5.89E-01  1.33E+01
1.81E+01  2.75E+01  3.12E+01  3.61E+01  1.43E-03   18
 INGESTION OF FRUITS                    1.0000  6.12E+00  8.27E-01  2.14E+01
2.64E+01  3.78E+01  4.32E+01  5.29E+01  1.43E-03   18
 INGESTION OF LEGUMES                   1.0000  3.71E+00  6.91E-01  1.18E+01
1.53E+01  2.33E+01  2.63E+01  3.11E+01  1.43E-03   18
 INGESTION OF BEEF                      1.0000  2.85E+01  8.87E+00  9.50E+01
1.11E+02  1.48E+02  1.68E+02  2.14E+02  1.43E-03   18
 INGESTION OF MILK                      1.0000  1.79E+01  6.39E+00  5.44E+01
6.77E+01  9.34E+01  1.03E+02  1.45E+02  7.28E-05  154
 INGESTION OF POULTRY                   1.0000  7.97E+00  2.29E+00  2.41E+01
3.52E+01  6.17E+01  7.06E+01  8.99E+01  1.04E-05   69
 INGESTION OF OTHER MEAT CROPS          1.0000  1.73E+00  6.60E-01  4.44E+00
5.99E+00  1.04E+01  1.09E+01  1.57E+01  1.04E-05   69

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  6.41E+08  5.61E+08  1.11E+09
1.28E+09  1.75E+09  2.02E+09  5.86E+09  1.20E-03  107
 POP.-DEPENDENT COSTS                   1.0000  6.25E+08  5.44E+08  1.11E+09
1.27E+09  1.75E+09  2.02E+09  5.86E+09  1.20E-03  107
 FARM-DEPENDENT COSTS                   1.0000  1.53E+07  3.75E+06  5.13E+07
7.30E+07  1.22E+08  1.40E+08  1.92E+08  9.70E-04   18
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.54E+08  1.27E+08  2.81E+08
3.29E+08  4.41E+08  5.08E+08  1.27E+09  1.20E-03  107
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 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.88E+05  9.08E+04  4.11E+05
7.05E+05  1.25E+06  1.44E+06  3.97E+06  1.14E-04  107
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.64E+08  3.87E+08  8.78E+08
1.07E+09  1.64E+09  1.97E+09  4.58E+09  1.20E-03  107
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.33E+07  2.36E+06  4.53E+07
6.72E+07  1.07E+08  1.14E+08  1.78E+08  1.73E-05   67
 POP.-DEPENDENT CONDEMNATION COST       0.9106  6.77E+06  3.61E+06  1.21E+07
1.43E+07  9.91E+07  1.06E+08  1.25E+08  7.60E-04    2
 FARM-DEPENDENT CONDEMNATION COST       0.9106  4.87E+03  2.49E+03  7.95E+03
8.70E+03  6.61E+04  7.30E+04  7.73E+04  2.16E-03    2
 EMERGENCY PHASE COST                   0.9377  1.20E+05  8.71E+04  3.18E+05
3.79E+05  6.14E+05  7.89E+05  1.13E+06  3.71E-04    2
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  13:26:52    PAGE  28          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.38E+05  8.12E+03  4.66E+05
6.66E+05  1.46E+06  1.77E+06  4.14E+06  9.70E-04   18
 CROP DISPOSAL COST                     1.0000  1.66E+06  7.96E+05  4.46E+06
5.91E+06  1.03E+07  1.15E+07  4.18E+07  7.60E-06   67
XXXX
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 CAN FAT/TOTAL                0-16.1 km  1.0000  2.24E-04  2.06E-04  3.30E-04
3.59E-04  4.36E-04  4.73E-04  5.88E-04  1.55E-06   29
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  13:26:52    PAGE  30          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-80.5 km  1.0000  4.80E+01  3.72E+01  9.47E+01
1.12E+02  1.57E+02  1.82E+02  2.63E+02  5.99E-04  116
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.81E+01  1.48E+01  3.35E+01
4.43E+01  5.29E+01  5.45E+01  6.09E+01  3.71E-04    2
 ERL FAT/TOTAL                0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.06E+03  8.69E+02  2.06E+03
2.54E+03  3.59E+03  4.04E+03  5.89E+03  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-16.1 km  1.0000  4.62E-05  3.97E-05  7.98E-05
1.00E-04  1.16E-04  1.23E-04  1.56E-04  3.71E-04    2
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  13:26:52   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FROM THE "CHRONC" MODULE ALONE
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13-NOV-09  13:26:52    PAGE  31          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.38E+02  3.36E+02  1.16E+03
1.49E+03  2.46E+03  2.94E+03  4.58E+03  3.52E-05   69
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.27E+01  6.73E+01  1.05E+02
1.10E+02  1.22E+02  1.27E+02  2.06E+02  3.37E-06   29

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.21E+04  7.62E+03  2.78E+04
3.64E+04  5.68E+04  6.41E+04  1.03E+05  3.52E-05   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.78E-04  1.57E-04  2.76E-04
3.06E-04  3.33E-04  3.46E-04  5.07E-04  3.37E-06   29

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.21E+04  7.62E+03  2.78E+04
3.64E+04  5.68E+04  6.41E+04  1.03E+05  3.52E-05   69
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.19E+04  7.44E+03  2.77E+04
3.64E+04  5.68E+04  6.41E+04  1.03E+05  3.52E-05   69
 TOTAL INGESTION PATHWAYS DOSE          1.0000  8.31E+01  3.24E+01  2.53E+02
3.26E+02  4.62E+02  5.09E+02  6.83E+02  1.73E-05   67
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.16E+04  7.27E+03  2.57E+04
3.45E+04  5.64E+04  6.39E+04  9.99E+04  3.52E-05   69
 LONG-TERM RESUSPENSION DOSE            1.0000  3.29E+02  2.05E+02  7.79E+02
1.05E+03  1.52E+03  1.78E+03  2.86E+03  3.52E-05   69
 WATER INGESTION DOSE                   1.0000  1.02E+01  8.91E+00  1.69E+01
2.08E+01  2.74E+01  3.02E+01  3.41E+01  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  5.97E+01  4.96E+01  1.20E+02
1.58E+02  2.08E+02  2.14E+02  2.57E+02  5.71E-05  109
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  2.73E-02  1.71E-02  6.31E-02
8.25E-02  1.49E-01  1.99E-01  2.79E-01  5.71E-05  121
 INGESTION OF GRAINS                    1.0000  2.89E+00  3.81E-01  1.05E+01
1.27E+01  1.98E+01  2.36E+01  3.09E+01  9.42E-04   18
 INGESTION OF LEAF VEG                  1.0000  4.73E+00  5.01E-01  1.37E+01
2.21E+01  4.89E+01  5.37E+01  1.13E+02  1.73E-05   67
 INGESTION OF ROOT CROPS                1.0000  3.85E+00  4.85E-01  1.24E+01
1.64E+01  2.86E+01  3.23E+01  4.06E+01  9.42E-04   18
 INGESTION OF FRUITS                    1.0000  5.68E+00  7.32E-01  2.05E+01
2.54E+01  4.11E+01  5.02E+01  5.97E+01  9.42E-04   18
 INGESTION OF LEGUMES                   1.0000  3.34E+00  4.71E-01  1.09E+01
1.33E+01  2.18E+01  3.01E+01  3.47E+01  9.42E-04   18
 INGESTION OF BEEF                      1.0000  2.55E+01  7.64E+00  7.60E+01
9.86E+01  1.63E+02  2.01E+02  2.26E+02  9.42E-04   18
 INGESTION OF MILK                      1.0000  1.80E+01  6.12E+00  5.49E+01
7.03E+01  9.26E+01  1.03E+02  1.56E+02  1.09E-04  154
 INGESTION OF POULTRY                   1.0000  7.53E+00  2.15E+00  2.19E+01
3.33E+01  6.50E+01  7.38E+01  1.55E+02  1.73E-05   67
 INGESTION OF OTHER MEAT CROPS          1.0000  1.49E+00  5.54E-01  3.73E+00
5.51E+00  1.09E+01  1.21E+01  2.58E+01  1.73E-05   67

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.58E+08  4.78E+08  1.00E+09
1.18E+09  1.71E+09  2.00E+09  5.80E+09  1.20E-03  107
 POP.-DEPENDENT COSTS                   1.0000  5.44E+08  4.54E+08  9.99E+08
1.17E+09  1.70E+09  2.00E+09  5.80E+09  1.20E-03  107
 FARM-DEPENDENT COSTS                   1.0000  1.31E+07  3.40E+06  4.58E+07
```

```
6.31E+07  1.03E+08  1.07E+08  1.61E+08  6.93E-06   69
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.35E+08  1.14E+08  2.55E+08
3.14E+08  4.35E+08  5.00E+08  1.25E+09  1.20E-03  107
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.64E+05  8.13E+04  3.65E+05
5.76E+05  1.21E+06  1.40E+06  3.85E+06  1.14E-04  107
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.04E+08  3.41E+08  7.68E+08
9.31E+08  1.56E+09  1.96E+09  4.55E+09  1.20E-03  107
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.14E+07  2.11E+06  4.09E+07
5.95E+07  9.54E+07  1.02E+08  1.40E+08  6.93E-06   69
 POP.-DEPENDENT CONDEMNATION COST       0.8812  5.08E+06  3.37E+06  1.08E+07
1.22E+07  1.62E+07  1.83E+07  1.25E+08  3.80E-04    2
 FARM-DEPENDENT CONDEMNATION COST       0.6748  1.68E+03  1.92E+03  2.54E+03
2.82E+03 NOT-FOUND NOT-FOUND  8.49E+03  1.47E-02    3
 EMERGENCY PHASE COST                   0.9221  6.06E+04  1.48E+04  1.52E+05
1.99E+05  3.59E+05  3.94E+05  4.97E+05  9.13E-04    2
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  13:26:52    PAGE  32          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.00E+05  3.84E+03  3.86E+05
5.54E+05  1.21E+06  1.52E+06  2.53E+06  9.70E-04   18
 CROP DISPOSAL COST                     1.0000  1.46E+06  6.66E+05  3.85E+06
5.32E+06  8.17E+06  9.96E+06  1.91E+07  6.93E-06   69

Successful completion of MACCS2 was achieved!
This job required a total of     25.383 CPU seconds

   Input processing required      0.281 CPU seconds
         Simulation required     24.539 CPU seconds
  Output processing required      0.562 CPU seconds
```

```
MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised 1/8/04, K. McFadden
P1:  ATMOS USER INPUT (UNIT 24) = atmbi2NS.INP


P2:  EARLY USER INPUT (UNIT 25) = earbi-noE.INP


P3: CHRONC USER INPUT (UNIT 26) = chrbiEC.INP


P4:  METEOROLOGY DATA (UNIT 28) = meti04.INP


P5:   SITE DATA INPUT (UNIT 29) = siteiEC.INP


P6:       LIST OUTPUT (UNIT 06) = conbi2NS-noE-Nmet04EC.OUT




USER INPUT IS READ FROM UNIT 24
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT

       *

    1  RIATNAM1001 'ATMOS INPUT FOR IPEC CALCULATIONS'

*******************************************************************************

       * GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/

       *

       * NUMBER OF RADIAL SPATIAL ELEMENTS

       *

    2  GENUMRAD001  15

       *

       *

       *

    3  GESPAEND001     0.32      1.61      3.22      4.83      6.44
```

```
  4  GESPAEND002     8.05      9.66     11.27     12.87     14.48
  5  GESPAEND003    16.09     32.19     48.28     64.37     80.47

*******************************************************************************
     * NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
     *
     * Number of pseudo-stable nuclides (used to truncate the decay chains)
     *
  6  ISNUMSTB001      27
     *
     * List of pseudo-stable nuclides
     *
  7  ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
  8  ISNAMSTB002     Xe-131m  (daughter of I-131)
  9  ISNAMSTB003     Xe-133m  (daughter of I-133)
 10  ISNAMSTB004     Xe-135m  (daughter of I-135)
 11  ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
 12  ISNAMSTB006     Sm-147   (daughter of Pm-147)
 13  ISNAMSTB007     U-234    (daughter of Pu-238)
 14  ISNAMSTB008     U-235    (daughter of Pu-239)
 15  ISNAMSTB009     U-236    (daughter of Pu-240)
 16  ISNAMSTB010     U-237    (daughter of Pu-241)
 17  ISNAMSTB011     Np-237   (daughter of Am-241)
 18  ISNAMSTB012     Rb-87    (daughter of Kr-87)
 19  ISNAMSTB013     Ba-137m  (daughter of Cs-137)
 20  ISNAMSTB014     Rb-88    (daughter of Kr-88)
 21  ISNAMSTB015     Y-91m    (daughter of Sr-91)
 22  ISNAMSTB016     Zr-93    (daughter of Y-93)
 23  ISNAMSTB017     Nb-93m   (daughter of Zr-93)
 24  ISNAMSTB018     Nb-95m   (daughter of Zr-95)
 25  ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
 26  ISNAMSTB020     Nb-97m   (daughter of Zr-97)
```

```
ISNAMSTB021     Tc-99    (daughter of Mo-99)
ISNAMSTB022     Rh-103m  (daughter of Ru-103)
ISNAMSTB023     Rh-106   (daughter of Ru-106)
ISNAMSTB024    Te-131    (daughter of Te-131m)
ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026     Pr-144m  (daughter of Ce-144)
ISNAMSTB027     Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
*
ISDEPFLA001    .FALSE.   .FALSE.
ISDEPFLA002    .TRUE.    .TRUE.
ISDEPFLA003    .TRUE.    .TRUE.
ISDEPFLA004    .TRUE.    .TRUE.
ISDEPFLA005    .TRUE.    .TRUE.
ISDEPFLA006    .TRUE.    .TRUE.
ISDEPFLA007    .TRUE.    .TRUE.
ISDEPFLA008    .TRUE.    .TRUE.
ISDEPFLA009    .TRUE.    .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
```

```
*
*                NUCNAM    IGROUP
*
ISOTPGRP001      Co-58        6
ISOTPGRP002      Co-60        6
ISOTPGRP003      Kr-85        1
ISOTPGRP004      Kr-85m       1
ISOTPGRP005      Kr-87        1
ISOTPGRP006      Kr-88        1
ISOTPGRP007      Rb-86        3
ISOTPGRP008      Sr-89        5
ISOTPGRP009      Sr-90        5
ISOTPGRP010      Sr-91        5
ISOTPGRP011      Sr-92        5
ISOTPGRP012      Y-90         7
ISOTPGRP013      Y-91         7
ISOTPGRP014      Y-92         7
ISOTPGRP015      Y-93         7
ISOTPGRP016      Zr-95        7
ISOTPGRP017      Zr-97        7
ISOTPGRP018      Nb-95        7
ISOTPGRP019      Mo-99        6
ISOTPGRP020      Tc-99m       6
ISOTPGRP021      Ru-103       6
ISOTPGRP022      Ru-105       6
ISOTPGRP023      Ru-106       6
ISOTPGRP024      Rh-105       6
ISOTPGRP025      Sb-127       4
ISOTPGRP026      Sb-129       4
ISOTPGRP027      Te-127       4
ISOTPGRP028      Te-127m      4
ISOTPGRP029      Te-129       4
```

74	ISOTPGRP030	Te-129m	4
75	ISOTPGRP031	Te-131m	4
76	ISOTPGRP032	Te-132	4
77	ISOTPGRP033	I-131	2
78	ISOTPGRP034	I-132	2
79	ISOTPGRP035	I-133	2
80	ISOTPGRP036	I-134	2
81	ISOTPGRP037	I-135	2
82	ISOTPGRP038	Xe-133	1
83	ISOTPGRP039	Xe-135	1
84	ISOTPGRP040	Cs-134	3
85	ISOTPGRP041	Cs-136	3
86	ISOTPGRP042	Cs-137	3
87	ISOTPGRP043	Ba-139	9
88	ISOTPGRP044	Ba-140	9
89	ISOTPGRP045	La-140	7
90	ISOTPGRP046	La-141	7
91	ISOTPGRP047	La-142	7
92	ISOTPGRP048	Ce-141	8
93	ISOTPGRP049	Ce-143	8
94	ISOTPGRP050	Ce-144	8
95	ISOTPGRP051	Pr-143	7
96	ISOTPGRP052	Nd-147	7
97	ISOTPGRP053	Np-239	8
98	ISOTPGRP054	Pu-238	8
99	ISOTPGRP055	Pu-239	8
100	ISOTPGRP056	Pu-240	8
101	ISOTPGRP057	Pu-241	8
102	ISOTPGRP058	Am-241	7
103	ISOTPGRP059	Cm-242	7
104	ISOTPGRP060	Cm-244	7

```
*****************************************************************************
       * WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
       *
       * WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
       *
  105  WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
       *
       * WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
       *
  106  WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)

*****************************************************************************
       * DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
       *
       * NUMBER OF PARTICLE SIZE GROUPS
       *
  107  DDNPSGRP001   1
       *
       * DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
       *
  108  DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)

*****************************************************************************
       * DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/,
/DISPZ/
       *
       * # of distances in plume-size tables--which can be used as an alternative to
the power-law model:
       * (to utilize the power-law model, set NUM_DIST to zero or delete the
following data card)
       *
  109  NUM_DIST001   0
       *
       * SIGMA = A * X ** B
       *
```

```
      * Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km

      * as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).

      * P-G CLASS:          A            B            C            D            E
       F
  110  DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
    0.0722
  111  DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
    0.9031
  112  DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
    0.2
  113  DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
    0.6020
      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1

      *

  114  DPYSCALE001    1.

      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,

      *  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.

      *  (Z1 / Z0) ** 0.2,   FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27

      *

  115  DPZSCALE001    1.27

****************************************************************************** *

      * EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/

      *

      * TIME BASE FOR EXPANSION FACTOR (SECONDS)

      *

  116  PMTIMBAS001    600.   (10 MINUTES)

      *

      * BREAK POINT FOR FORMULA CHANGE (SECONDS)

      *

  117  PMBRKPNT001   3600.   (1 HOUR)

      *

      * EXPONENTIAL EXPANSION FACTOR NUMBER 1

      *

  118  PMXPFAC1001      0.2
```

```
        *
        * EXPONENTIAL EXPANSION FACTOR NUMBER 2
        *
  119   PMXPFAC2001      0.25
*******************************************************************************
        * PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
        *
        * SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT
PLUME
        * (USED BY FUNCTION CAUGHT)
        *
  120   PRSCLCRW001   1.
        *
        * SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  121   PRSCLADP001   1.
        *
        * SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  122   PRSCLEFP001   1.
*******************************************************************************
        * RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
        ********************** RELEASE DATA BLOCK ************
        * SOURCE TERM NUMBER  1 OF 8
  123   RDATNAM2001 'NCF'
        *
        * TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
        * CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
        * PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
        *
```

```
124  RDOALARM001   1.66E+04
     *
     * NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
     *
125  RDNUMREL001          1
     *
     * SELECTION OF RISK DOMINANT PLUME
     *
126  RDMAXRIS001          1
     *
     * REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
     *
127  RDREFTIM001        0.5
     *
     * HEAT CONTENT OF THE RELEASE SEGMENTS (W)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
128  RDPLHEAT001   9.20E+05
     *
     * HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
129  RDPLHITE001        30.
     *
     * DURATION OF THE PLUME SEGMENTS (S)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
130  RDPLUDUR001   8.64E+04
     *
     * TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
```

```
*
RDPDELAY001   0.00E+00
*
* Initial value of sigma-y for each plume--Note: values required for each
plume
*
SIGYINIT001   9.9  (initial sigma-y = W/4.3 = 42.5/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each
plume
*
SIGZINIT001  31.1  (initial sigma-z = H/2.15 = 66.8/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   66.8
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
*
*               NUCNAM  CORINV (Bq)
*
RDCORINV001     Co-58    3.04E+16
```

145	RDCORINV002	Co-60	2.32E+16
146	RDCORINV003	Kr-85	3.84E+16
147	RDCORINV004	Kr-85m	8.48E+17
148	RDCORINV005	Kr-87	1.63E+18
149	RDCORINV006	Kr-88	2.29E+18
150	RDCORINV007	Rb-86	8.31E+15
151	RDCORINV008	Sr-89	3.08E+18
152	RDCORINV009	Sr-90	3.05E+17
153	RDCORINV010	Sr-91	3.87E+18
154	RDCORINV011	Sr-92	4.19E+18
155	RDCORINV012	Y-90	3.18E+17
156	RDCORINV013	Y-91	3.98E+18
157	RDCORINV014	Y-92	4.19E+18
158	RDCORINV015	Y-93	4.85E+18
159	RDCORINV016	Zr-95	5.38E+18
160	RDCORINV017	Zr-97	5.41E+18
161	RDCORINV018	Nb-95	5.45E+18
162	RDCORINV019	Mo-99	6.11E+18
163	RDCORINV020	Tc-99m	5.34E+18
164	RDCORINV021	Ru-103	4.89E+18
165	RDCORINV022	Ru-105	3.36E+18
166	RDCORINV023	Ru-106	1.71E+18
167	RDCORINV024	Rh-105	3.09E+18
168	RDCORINV025	Sb-127	3.47E+17
169	RDCORINV026	Sb-129	1.04E+18
170	RDCORINV027	Te-127	3.43E+17
171	RDCORINV028	Te-127m	4.50E+16
172	RDCORINV029	Te-129	1.02E+18
173	RDCORINV030	Te-129m	1.50E+17
174	RDCORINV031	Te-131m	4.64E+17
175	RDCORINV032	Te-132	4.57E+18

```
RDCORINV033     I-131    3.20E+18
RDCORINV034     I-132    4.64E+18
RDCORINV035     I-133    6.56E+18
RDCORINV036     I-134    7.19E+18
RDCORINV037     I-135    6.11E+18
RDCORINV038     Xe-133   6.28E+18
RDCORINV039     Xe-135   1.67E+18
RDCORINV040     Cs-134   7.19E+17
RDCORINV041     Cs-136   2.10E+17
RDCORINV042     Cs-137   4.15E+17
RDCORINV043     Ba-139   5.83E+18
RDCORINV044     Ba-140   5.62E+18
RDCORINV045     La-140   6.04E+18
RDCORINV046     La-141   5.34E+18
RDCORINV047     La-142   5.17E+18
RDCORINV048     Ce-141   5.31E+18
RDCORINV049     Ce-143   4.96E+18
RDCORINV050     Ce-144   4.19E+18
RDCORINV051     Pr-143   4.78E+18
RDCORINV052     Nd-147   2.13E+18
RDCORINV053     Np-239   6.56E+19
RDCORINV054     Pu-238   1.44E+16
RDCORINV055     Pu-239   1.22E+15
RDCORINV056     Pu-240   1.83E+15
RDCORINV057     Pu-241   4.12E+17
RDCORINV058     Am-241   4.92E+14
RDCORINV059     Cm-242   1.23E+17
RDCORINV060     Cm-244   1.33E+16
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*
```

```
  204  RDCORSCA001   1.0
       *
  205  RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
       *
       * RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
       *
       *  ISOTOPE GROUPS:
       *
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
  206  RDRELFRC001 9.3E-05 3.9E-06 1.6E-06 1.2E-06 3.7E-08 2.4E-07 2.1E-09 1.8E-08
1.1E-07
       *

*******************************************************************************
       * OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
       *
       * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
       *
  207  OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
       *
  208  OCIDEBUG001  0
       *
       * NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
       *
       *OCNUCOUT001  Cs-137
       *
       *              NUM0
  209  TYPE0NUMBER      0
       *
       *              INDREL   INDRAD
       *TYPE0OUT001      1        9
       *TYPE0OUT002      1       10         CCDF
```

```
*****************************************************************************
      * METEOROLOGICAL SAMPLING DATA BLOCK
      *
      * METEOROLOGICAL SAMPLING OPTION CODE:
      *
      * METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
      *          2, WEATHER CATEGORY BIN SAMPLING,
      *          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
      *          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
      *          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
      *
  210 M1METCOD001  2
      *
      * LAST SPATIAL INTERVAL FOR MEASURED WEATHER
      *
  211 M2LIMSPA001  15
      *
      * BOUNDARY WEATHER MIXING LAYER HEIGHT
      *
  212 M2BNDMXH001  1000.  (METERS)
      *
      * BOUNDARY WEATHER STABILITY CLASS INDEX
      *
  213 M2IBDSTB001  4      (D-STABILITY)
      *
      * BOUNDARY WEATHER RAIN RATE
      *
  214 M2BNDRAN001  0.     (MM/HR)
      *
      * BOUNDARY WEATHER WIND SPEED
      *
```

```
215  M2BNDWND001  5.     (M/S)
     *
     * NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
     *
216  M4NRNINT001  6
     *
     * ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
     *
     * NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
     *       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
     *
     *             2.0    4.0      7     10.0     20.0   40.0   MILES
     *
217  M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
     *
     * NUMBER OF RAIN INTENSITIY BREAKPOINTS
     *
218  M4NRINTN001   3
     *
     * RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
     *
219  M4RNRATE001   2.  4.  6.
     *
     * NUMBER OF SAMPLES PER BIN
     *
220  M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
     *
     * INITIAL SEED FOR RANDOM NUMBER GENERATOR
     *
221  M4IRSEED001   79
     .
```

```
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  449
NUMBER OF BLANK OR COMMENT RECORDS READ         =  227
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =  221
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =  221
*******************************************************************************
****************



Decay Chain #  Ba-139

Decay Chain #  Ba-140   La-140
Fraction of Ba-140  going to La-140  in this chain = 1.000000

Decay Chain #  Ce-143   Pr-143
Fraction of Ce-143  going to Pr-143  in this chain = 1.000000

Decay Chain #  Ce-144

Decay Chain #  Cm-242   Pu-238
Fraction of Cm-242  going to Pu-238  in this chain = 1.000000

Decay Chain #  Cm-244   Pu-240
Fraction of Cm-244  going to Pu-240  in this chain = 1.000000

Decay Chain #  Co-58

Decay Chain #  Co-60

Decay Chain #  Cs-134

Decay Chain #  Cs-136

Decay Chain #  Cs-137

Decay Chain #  I-133    Xe-133
Fraction of I-133   going to Xe-133  in this chain = 0.971000

Decay Chain #  I-134

Decay Chain #  I-135    Xe-135
Fraction of I-135   going to Xe-135  in this chain = 0.846000

Decay Chain #  Kr-85m   Kr-85
Fraction of Kr-85m  going to Kr-85   in this chain = 0.211000

Decay Chain #  Kr-87

Decay Chain #  Kr-88

Decay Chain #  La-141   Ce-141
Fraction of La-141  going to Ce-141  in this chain = 1.000000

Decay Chain #  La-142

Decay Chain #  Mo-99    Tc-99m
```

```
Fraction of Mo-99   going to Tc-99m  in this chain = 0.876000

Decay Chain #  Nd-147

Decay Chain #  Np-239   Pu-239
Fraction of Np-239  going to Pu-239  in this chain = 1.000000

Decay Chain #  Pu-241   Am-241
Fraction of Pu-241  going to Am-241  in this chain = 1.000000

Decay Chain #  Rb-86

Decay Chain #  Ru-103

Decay Chain #  Ru-105   Rh-105
Fraction of Ru-105  going to Rh-105  in this chain = 1.000000

Decay Chain #  Ru-106

Decay Chain #  Sb-127   Te-127
Fraction of Sb-127  going to Te-127  in this chain = 0.824000

Decay Chain #  Sb-127   Te-127m  Te-127
Fraction of Sb-127  going to Te-127m in this chain = 0.176000
Fraction of Sb-127  going to Te-127  in this chain = 0.171776
Fraction of Te-127m going to Te-127  in this chain = 0.976000

Decay Chain #  Sb-129   Te-129
Fraction of Sb-129  going to Te-129  in this chain = 0.775000

Decay Chain #  Sb-129   Te-129m  Te-129
Fraction of Sb-129  going to Te-129m in this chain = 0.225000
Fraction of Sb-129  going to Te-129  in this chain = 0.146250
Fraction of Te-129m going to Te-129  in this chain = 0.650000

Decay Chain #  Sr-89

Decay Chain #  Sr-90    Y-90
Fraction of Sr-90   going to Y-90    in this chain = 1.000000

Decay Chain #  Sr-91    Y-91
Fraction of Sr-91   going to Y-91    in this chain = 0.422000

Decay Chain #  Sr-92    Y-92
Fraction of Sr-92   going to Y-92    in this chain = 1.000000

Decay Chain #  Te-131m  I-131
Fraction of Te-131m going to I-131   in this chain = 0.778000

Decay Chain #  Te-132   I-132
Fraction of Te-132  going to I-132   in this chain = 1.000000

Decay Chain #  Y-93

Decay Chain #  Zr-95    Nb-95
Fraction of Zr-95   going to Nb-95   in this chain = 0.993000

Decay Chain #  Zr-97


RELEASED INVENTORY OF ALL PLUMES
Co-58      7.26E+09
Co-60      5.57E+09
```

Kr-85	3.57E+12
Kr-85m	1.23E+13
Kr-87	2.19E+11
Kr-88	1.14E+13
Rb-86	1.31E+10
Sr-89	1.13E+11
Sr-90	1.13E+10
Sr-91	5.97E+10
Sr-92	7.20E+09
Y-90	1.96E+09
Y-91	8.55E+09
Y-92	2.56E+10
Y-93	4.47E+09
Zr-95	1.12E+10
Zr-97	6.94E+09
Nb-95	1.14E+10
Mo-99	1.29E+12
Tc-99m	1.21E+12
Ru-103	1.16E+12
Ru-105	1.24E+11
Ru-106	4.10E+11
Rh-105	6.60E+11
Sb-127	3.81E+11
Sb-129	1.82E+11
Te-127	3.92E+11
Te-127m	5.41E+10
Te-129	3.09E+11
Te-129m	1.79E+11
Te-131m	4.22E+11
Te-132	4.93E+12
I-131	1.20E+13
I-132	5.41E+12
I-133	1.72E+13
I-134	2.12E+09
I-135	6.77E+12
Xe-133	5.48E+14
Xe-135	6.85E+13
Cs-134	1.15E+12
Cs-136	3.27E+11
Cs-137	6.64E+11
Ba-139	1.54E+09
Ba-140	6.02E+11
La-140	1.24E+11
La-141	1.35E+09
La-142	4.93E+07
Ce-141	9.46E+10
Ce-143	6.94E+10
Ce-144	7.53E+10
Pr-143	1.18E+10
Nd-147	4.33E+09
Np-239	1.02E+12
Pu-238	2.59E+08
Pu-239	2.20E+07
Pu-240	3.29E+07
Pu-241	7.42E+09
Am-241	1.05E+06
Cm-242	2.58E+08
Cm-244	2.79E+07

READING FROM A WEATHER FILE WITH THE FOLLOWING HEADER:
INDIAN POINT ENERGY CENTER METEORLOGICAL DATAFILE
Input file for the MACCS2 model using the year 2004
METEOROLOGICAL DATA FILE CONTAINS 442 HOURS OF OBSERVED RAIN DATA.

```
            ACCUMULATED RAIN MEASUREMENTS TOTALED  31.15 INCHES FOR THE YEAR.
            CONSTANT LID HEIGHTS (M) FOR 4 SEASONS =    1200   1300   1400   1200
            NON-ZERO WINDSPEEDS LESS THAN 0.5 M/S ARE SET TO 0.5 M/S
NUMTRI=         143


                                  * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND, 1 (0-1), 2 (1-2), 3
(2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                        WIND DIRECTION
  METBIN    1     2     3     4     5     6     7     8     9    10    11    12
13    14    15    16  TOTAL   PER CENT

 1 B   3  0.246 0.114 0.065 0.055 0.048 0.058 0.071 0.068 0.158 0.014 0.004 0.004
0.000 0.000 0.005 0.090  765     8.7329
 2 B   4  0.137 0.056 0.032 0.005 0.010 0.105 0.218 0.069 0.252 0.069 0.007 0.007
0.000 0.000 0.000 0.032  408     4.6575
 3 D   1  0.176 0.065 0.082 0.018 0.029 0.029 0.018 0.018 0.024 0.071 0.029 0.047
0.059 0.106 0.082 0.147  170     1.9406
 4 D   2  0.146 0.100 0.044 0.037 0.034 0.032 0.038 0.048 0.133 0.137 0.075 0.032
0.019 0.025 0.028 0.073 1043    11.9064
 5 D   3  0.109 0.050 0.016 0.015 0.046 0.063 0.123 0.075 0.175 0.238 0.051 0.008
0.001 0.000 0.002 0.027 1232    14.0639
 6 D   4  0.053 0.037 0.005 0.002 0.020 0.068 0.207 0.094 0.174 0.318 0.018 0.001
0.000 0.000 0.000 0.002  998    11.3927
 7 D   5  0.000 0.027 0.000 0.000 0.041 0.054 0.176 0.027 0.243 0.432 0.000 0.000
0.000 0.000 0.000 0.000   74     0.8447
 9 E   1  0.118 0.085 0.069 0.045 0.033 0.024 0.023 0.028 0.071 0.076 0.059 0.050
0.063 0.085 0.061 0.109  576     6.5753
10 E   2  0.152 0.112 0.043 0.038 0.024 0.031 0.034 0.024 0.054 0.177 0.136 0.050
0.025 0.013 0.014 0.072 1043    11.9064
11 E   3  0.215 0.081 0.017 0.017 0.026 0.058 0.055 0.038 0.038 0.282 0.122 0.003
0.000 0.000 0.000 0.047  344     3.9269
12 E   4  0.275 0.188 0.000 0.029 0.029 0.058 0.101 0.029 0.072 0.203 0.014 0.000
0.000 0.000 0.000 0.000   69     0.7877
13 F   1  0.068 0.043 0.038 0.034 0.017 0.026 0.017 0.051 0.132 0.244 0.103 0.013
0.064 0.034 0.064 0.051  234     2.6712
14 F   2  0.043 0.022 0.011 0.011 0.000 0.007 0.000 0.007 0.086 0.337 0.262 0.097
0.050 0.018 0.022 0.029  279     3.1849
15 F   3  0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.367 0.571 0.041
0.000 0.000 0.000 0.000   49     0.5594
16 F   4  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.750 0.250 0.000
0.000 0.000 0.000 0.000    8     0.0913
17 R1  3  0.117 0.042 0.025 0.006 0.003 0.014 0.008 0.022 0.117 0.328 0.072 0.042
0.039 0.019 0.039 0.108  360     4.1096
18 R1  6  0.138 0.108 0.015 0.031 0.000 0.000 0.000 0.015 0.046 0.108 0.092 0.046
0.062 0.062 0.077 0.200   65     0.7420
19 R1 11  0.205 0.045 0.027 0.036 0.009 0.000 0.000 0.018 0.107 0.232 0.071 0.036
0.036 0.054 0.054 0.071  112     1.2785
20 R1 16  0.171 0.114 0.029 0.043 0.000 0.000 0.000 0.000 0.057 0.200 0.071 0.057
0.029 0.086 0.043 0.100   70     0.7991
21 R1 32  0.223 0.091 0.029 0.017 0.012 0.012 0.004 0.012 0.070 0.190 0.066 0.045
0.037 0.062 0.041 0.087  242     2.7626
```

```
22 R1 65  0.212 0.087 0.033 0.031 0.015 0.005 0.018 0.033 0.064 0.186 0.089 0.033
0.028 0.026 0.038 0.102  392     4.4749
23 R2  3  0.104 0.104 0.000 0.042 0.000 0.021 0.000 0.021 0.063 0.375 0.042 0.063
0.021 0.000 0.083 0.063   48     0.5479
24 R2  6  0.250 0.250 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.500    4     0.0457
25 R2 11  0.444 0.111 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.222 0.000 0.111
0.000 0.000 0.000 0.111    9     0.1027
26 R2 16  0.167 0.000 0.333 0.000 0.000 0.167 0.000 0.000 0.000 0.167 0.000 0.000
0.167 0.000 0.000 0.000    6     0.0685
27 R2 32  0.227 0.182 0.045 0.045 0.045 0.091 0.045 0.045 0.000 0.000 0.045 0.045
0.000 0.045 0.000 0.136   22     0.2511
28 R2 65  0.395 0.079 0.026 0.000 0.000 0.000 0.000 0.000 0.000 0.105 0.132 0.053
0.053 0.053 0.053 0.053   38     0.4338
29 R3  3  0.364 0.000 0.000 0.000 0.000 0.000 0.000 0.045 0.045 0.364 0.045 0.000
0.000 0.000 0.000 0.136   22     0.2511
31 R3 11  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.500 0.000
0.000 0.000 0.000 0.000    2     0.0228
33 R3 32  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.000 0.000
0.000 0.000 0.000 0.000    2     0.0228
34 R3 65  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.000 0.000
0.000 0.000 0.000 0.000    4     0.0457
35 R4  3  0.267 0.067 0.000 0.067 0.033 0.000 0.033 0.033 0.033 0.333 0.033 0.000
0.033 0.000 0.000 0.067   30     0.3425
36 R4  6  0.000 0.250 0.250 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.250 0.000 0.250 0.000    4     0.0457
37 R4 11  0.250 0.000 0.000 0.250 0.000 0.000 0.000 0.000 0.000 0.000 0.250 0.000
0.000 0.250 0.000 0.000    4     0.0457
38 R4 16  0.333 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.333 0.000 0.333 0.000    3     0.0342
39 R4 32  0.000 0.444 0.111 0.111 0.000 0.000 0.000 0.000 0.111 0.111 0.000 0.000
0.111 0.000 0.000 0.000    9     0.1027
40 R4 65  0.250 0.200 0.000 0.100 0.000 0.050 0.050 0.000 0.000 0.050 0.050 0.000
0.000 0.050 0.050 0.150   20     0.2283
41 ALL    0.141 0.076 0.033 0.026 0.027 0.042 0.074 0.048 0.120 0.193 0.071 0.026
0.020 0.020 0.021 0.062 8760
```

```
                              * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND (M/S), 1 (0-1), 2 (1-2),
3 (2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                WIND DIRECTION
  METBIN    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15
 16 TOTAL   PER CENT

 1 B   3   188   87   50   42   37   44   54   52  121   11    3    3    0    0    4
  69  765     8.7329
 2 B   4    56   23   13    2    4   43   89   28  103   28    3    3    0    0    0
  13  408     4.6575
 3 D   1    30   11   14    3    5    5    3    3    4   12    5    8   10   18   14
  25  170     1.9406
 4 D   2   152  104   46   39   35   33   40   50  139  143   78   33   20   26   29
  76 1043    11.9064
 5 D   3   134   61   20   19   57   78  152   92  216  293   63   10    1    0    3
```

```
  33 1232    14.0639
 6 D   4    53   37    5    2   20   68  207   94  174  317   18    1    0    0    0
   2  998    11.3927
 7 D   5     0    2    0    0    3    4   13    2   18   32    0    0    0    0    0
   0   74     0.8447
 8 D   6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
 9 E   1    68   49   40   26   19   14   13   16   41   44   34   29   36   49   35
  63  576     6.5753
10 E   2   159  117   45   40   25   32   35   25   56  185  142   52   26   14   15
  75 1043    11.9064
11 E   3    74   28    6    6    9   20   19   13   13   97   42    1    0    0    0
  16  344     3.9269
12 E   4    19   13    0    2    2    4    7    2    5   14    1    0    0    0    0
   0   69     0.7877
13 F   1    16   10    9    8    4    6    4   12   31   57   24    3   15    8   15
  12  234     2.6712
14 F   2    12    6    3    3    0    2    0    2   24   94   73   27   14    5    6
   8  279     3.1849
15 F   3     1    0    0    0    0    0    0    0    0   18   28    2    0    0    0
   0   49     0.5594
16 F   4     0    0    0    0    0    0    0    0    0    6    2    0    0    0    0
   0    8     0.0913
17 R1  3    42   15    9    2    1    5    3    8   42  118   26   15   14    7   14
  39  360     4.1096
18 R1  6     9    7    1    2    0    0    0    1    3    7    6    3    4    4    5
  13   65     0.7420
19 R1 11    23    5    3    4    1    0    0    2   12   26    8    4    4    6    6
   8  112     1.2785
20 R1 16    12    8    2    3    0    0    0    0    4   14    5    4    2    6    3
   7   70     0.7991
21 R1 32    54   22    7    4    3    3    1    3   17   46   16   11    9   15   10
  21  242     2.7626
22 R1 65    83   34   13   12    6    2    7   13   25   73   35   13   11   10   15
  40  392     4.4749
23 R2  3     5    5    0    2    0    1    0    1    3   18    2    3    1    0    4
   3   48     0.5479
24 R2  6     1    1    0    0    0    0    0    0    0    0    0    0    0    0    0
   2    4     0.0457
25 R2 11     4    1    0    0    0    0    0    0    0    2    0    1    0    0    0
   1    9     0.1027
26 R2 16     1    0    2    0    0    1    0    0    0    1    0    0    1    0    0
   0    6     0.0685
27 R2 32     5    4    1    1    1    2    1    1    0    0    1    1    0    1    0
   3   22     0.2511
28 R2 65    15    3    1    0    0    0    0    0    0    4    5    2    2    2    2
   2   38     0.4338
29 R3  3     8    0    0    0    0    0    0    1    1    8    1    0    0    0    0
   3   22     0.2511
30 R3  6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
31 R3 11     0    0    0    0    0    0    0    0    0    1    1    0    0    0    0
   0    2     0.0228
32 R3 16     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
33 R3 32     0    0    0    0    0    0    0    0    0    2    0    0    0    0    0
   0    2     0.0228
34 R3 65     0    0    0    0    0    0    0    0    0    4    0    0    0    0    0
   0    4     0.0457
35 R4  3     8    2    0    2    1    0    1    1    1   10    1    0    1    0    0
   2   30     0.3425
36 R4  6     0    1    1    0    0    0    0    0    0    0    0    0    1    0    1
   0    4     0.0457
```

```
37 R4 11     1    0    0    1    0    0    0    0    0    0    1    0    0    1    0
   0    4     0.0457
38 R4 16     1    0    0    0    0    0    0    0    0    0    0    0    1    0    1
   0    3     0.0342
39 R4 32     0    4    1    1    0    0    0    0    1    1    0    0    1    0    0
   0    9     0.1027
40 R4 65     5    4    0    2    0    1    1    0    0    1    1    0    0    1    1
   3   20     0.2283


              * * * * SUMMARIES * * * *

   R      277  116   41   36   13   15   14   31  109  336  109   57   52   53   62
147 1468   16.7580
   B      244  110   63   44   41   87  143   80  224   39    6    6    0    0    4
 82 1173   13.3904
   D      369  215   85   63  120  188  415  241  551  797  164   52   31   44   46
136 3517   40.1484
   E      320  207   91   74   55   70   74   56  115  340  219   82   62   63   50
154 2032   23.1963
   F       29   16   12   11    4    8    4   14   55  175  127   32   29   13   21
 20  570    6.5068
      1   114   70   63   37   28   25   20   31   76  113   63   40   61   75   64
100  980   11.1872
      2   396  276  120  108   78   77   91  102  247  427  294  115   60   45   54
180 2670   30.4795
      3   324  127   50   41   85  132  209  132  322  414  135   13    1    0    3
 97 2085   23.8014
      4   125   73   18    6   26  113  300  121  271  363   24    4    0    0    0
 15 1459   16.6553
      5     3    2    0    0    3    6   16    5   29   34    0    0    0    0    0
  0   98    1.1187
      6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
  0    0    0.0000

                * * * * * BIN WINDROSE SUMMARY * * * * *

  BIN                            DIRECTION
                                     TOTAL
          1      2      3      4      5      6      7      8      9     10     11
 12     13     14     15     16
    1  0.246  0.114  0.065  0.055  0.048  0.058  0.071  0.068  0.158  0.014  0.004
0.004  0.000  0.000  0.005  0.090  1.000000
    2  0.137  0.056  0.032  0.005  0.010  0.105  0.218  0.069  0.252  0.069  0.007
0.007  0.000  0.000  0.000  0.032  1.000000
    3  0.176  0.065  0.082  0.018  0.029  0.029  0.018  0.018  0.024  0.071  0.029
0.047  0.059  0.106  0.082  0.147  1.000000
    4  0.146  0.100  0.044  0.037  0.034  0.032  0.038  0.048  0.133  0.137  0.075
0.032  0.019  0.025  0.028  0.073  1.000000
    5  0.109  0.050  0.016  0.015  0.046  0.063  0.123  0.075  0.175  0.238  0.051
0.008  0.001  0.000  0.002  0.027  1.000000
    6  0.053  0.037  0.005  0.002  0.020  0.068  0.207  0.094  0.174  0.318  0.018
0.001  0.000  0.000  0.000  0.002  1.000000
    7  0.000  0.027  0.000  0.000  0.041  0.054  0.176  0.027  0.243  0.432  0.000
0.000  0.000  0.000  0.000  0.000  1.000000
    8  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000000
    9  0.118  0.085  0.069  0.045  0.033  0.024  0.023  0.028  0.071  0.076  0.059
0.050  0.063  0.085  0.061  0.109  1.000000
   10  0.152  0.112  0.043  0.038  0.024  0.031  0.034  0.024  0.054  0.177  0.136
0.050  0.025  0.013  0.014  0.072  1.000000
   11  0.215  0.081  0.017  0.017  0.026  0.058  0.055  0.038  0.038  0.282  0.122
0.003  0.000  0.000  0.000  0.047  1.000000
```

```
   12  0.275  0.188  0.000  0.029  0.029  0.058  0.101  0.029  0.072  0.203  0.014
0.000  0.000  0.000  0.000  0.000  1.000000
   13  0.068  0.043  0.038  0.034  0.017  0.026  0.017  0.051  0.132  0.244  0.103
0.013  0.064  0.034  0.064  0.051  1.000000
   14  0.043  0.022  0.011  0.011  0.000  0.007  0.000  0.007  0.086  0.337  0.262
0.097  0.050  0.018  0.022  0.029  1.000000
   15  0.020  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.367  0.571
0.041  0.000  0.000  0.000  0.000  1.000000
   16  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.750  0.250
0.000  0.000  0.000  0.000  0.000  1.000000
   17  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   18  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   19  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   20  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   21  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   22  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   23  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   24  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   25  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   26  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   27  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   28  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   29  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   30  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   31  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   32  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   33  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   34  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   35  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   36  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   37  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   38  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   39  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   40  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   41  0.141  0.076  0.033  0.026  0.027  0.042  0.074  0.048  0.120  0.193  0.071
0.026  0.020  0.020  0.021  0.062  1.000000


******** BEGINNING OF CHANGE CASE   1 USER INPUT ********
```

```
********************** RELEASE DATA BLOCK *************

* SOURCE TERM NUMBER  2 OF 8

*

  222  RDATNAM2001 'EARLY HIGH'

********   RECORD NUMBER   222 REPLACES RECORD NUMBER   123   ********
*

  223  RDOALARM001   1.36E+04

********   RECORD NUMBER   223 REPLACES RECORD NUMBER   124   ********
  224  RDNUMREL001   1

********   RECORD NUMBER   224 REPLACES RECORD NUMBER   125   ********
  225  RDMAXRIS001   1

********   RECORD NUMBER   225 REPLACES RECORD NUMBER   126   ********
  226  RDREFTIM001   0.0

********   RECORD NUMBER   226 REPLACES RECORD NUMBER   127   ********
  227  RDPLHEAT001   1.08E+06

********   RECORD NUMBER   227 REPLACES RECORD NUMBER   128   ********
  228  RDPLHITE001   30.

********   RECORD NUMBER   228 REPLACES RECORD NUMBER   129   ********
  229  RDPLUDUR001   8.24E+04

********   RECORD NUMBER   229 REPLACES RECORD NUMBER   130   ********
  230  RDPDELAY001   1.32E+04

********   RECORD NUMBER   230 REPLACES RECORD NUMBER   131   ********
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
*

  231  RDRELFRC001 7.0E-01 2.4E-01 2.3E-01 2.3E-01 2.5E-02 9.1E-02 8.0E-04 4.8E-03
4.6E-02
********   RECORD NUMBER   231 REPLACES RECORD NUMBER   206   ********
.

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   1 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   1
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      2.76E+15
Co-60      2.11E+15
Kr-85      2.69E+16
Kr-85m     3.37E+17
Kr-87      1.55E+17
Kr-88      6.55E+17
Rb-86      1.90E+15
```

```
Sr-89      7.68E+16
Sr-90      7.62E+15
Sr-91      7.40E+16
Sr-92      4.10E+16
Y-90       5.41E+14
Y-91       3.24E+15
Y-92       3.46E+16
Y-93       3.02E+15
Zr-95      4.30E+15
Zr-97      3.72E+15
Nb-95      4.36E+15
Mo-99      5.35E+17
Tc-99m     4.83E+17
Ru-103     4.44E+17
Ru-105     1.72E+17
Ru-106     1.56E+17
Rh-105     2.78E+17
Sb-127     7.76E+16
Sb-129     1.33E+17
Te-127     7.79E+16
Te-127m    1.04E+16
Te-129     1.59E+17
Te-129m    3.45E+16
Te-131m    9.81E+16
Te-132     1.02E+18
I-131      7.59E+17
I-132      1.06E+18
I-133      1.39E+18
I-134      9.50E+16
I-135      9.98E+17
Xe-133     4.34E+18
Xe-135     1.13E+18
Cs-134     1.65E+17
Cs-136     4.79E+16
Cs-137     9.54E+16
Ba-139     4.24E+16
Ba-140     2.56E+17
La-140     2.03E+16
La-141     2.24E+15
La-142     7.95E+14
Ce-141     2.54E+16
Ce-143     2.20E+16
Ce-144     2.01E+16
Pr-143     3.97E+15
Nd-147     1.69E+15
Np-239     3.01E+17
Pu-238     6.91E+13
Pu-239     5.86E+12
Pu-240     8.78E+12
Pu-241     1.98E+15
Am-241     3.95E+11
Cm-242     9.83E+13
Cm-244     1.06E+13


******** BEGINNING OF CHANGE CASE   2 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  3 OF 8

       *

  232  RDATNAM2001 'EARLY MEDIUM'
```

```
********   RECORD NUMBER   232 REPLACES RECORD NUMBER   123   ********
       *

  233  RDOALARM001   1.00E+04

********   RECORD NUMBER   233 REPLACES RECORD NUMBER   124   ********
  234  RDNUMREL001   1

********   RECORD NUMBER   234 REPLACES RECORD NUMBER   125   ********
  235  RDMAXRIS001   1

********   RECORD NUMBER   235 REPLACES RECORD NUMBER   126   ********
  236  RDREFTIM001   0.0

********   RECORD NUMBER   236 REPLACES RECORD NUMBER   127   ********
  237  RDPLHEAT001   1.33E+06

********   RECORD NUMBER   237 REPLACES RECORD NUMBER   128   ********
  238  RDPLHITE001   30.

********   RECORD NUMBER   238 REPLACES RECORD NUMBER   129   ********
  239  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   239 REPLACES RECORD NUMBER   130   ********
  240  RDPDELAY001   1.25E+04

********   RECORD NUMBER   240 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  241  RDRELFRC001 9.9E-01 2.0E-02 1.8E-02 2.7E-02 8.3E-04 2.0E-02 4.9E-05 3.3E-04
1.3E-02
********   RECORD NUMBER   241 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   2 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   2
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      6.07E+14
Co-60      4.64E+14
Kr-85      3.80E+16
Kr-85m     4.91E+17
Kr-87      2.43E+17
Kr-88      9.71E+17
Rb-86      1.49E+14
Sr-89      2.55E+15
Sr-90      2.53E+14
Sr-91      2.49E+15
Sr-92      1.43E+15
Y-90       2.43E+13
Y-91       1.97E+14
Y-92       1.19E+15
```

```
Y-93       1.87E+14
Zr-95      2.63E+14
Zr-97      2.30E+14
Nb-95      2.67E+14
Mo-99      1.18E+17
Tc-99m     1.06E+17
Ru-103     9.76E+16
Ru-105     3.91E+16
Ru-106     3.42E+16
Rh-105     6.11E+16
Sb-127     9.13E+15
Sb-129     1.61E+16
Te-127     9.16E+15
Te-127m    1.22E+15
Te-129     1.91E+16
Te-129m    4.05E+15
Te-131m    1.16E+16
Te-132     1.20E+17
I-131      6.33E+16
I-132      1.11E+17
I-133      1.17E+17
I-134      9.24E+15
I-135      8.49E+16
Xe-133     6.10E+18
Xe-135     1.29E+18
Cs-134     1.29E+16
Cs-136     3.75E+15
Cs-137     7.47E+15
Ba-139     1.32E+16
Ba-140     7.25E+16
La-140     4.50E+15
La-141     1.42E+14
La-142     5.32E+13
Ce-141     1.75E+15
Ce-143     1.52E+15
Ce-144     1.38E+15
Pr-143     2.44E+14
Nd-147     1.03E+14
Np-239     2.07E+16
Pu-238     4.75E+12
Pu-239     4.03E+11
Pu-240     6.04E+11
Pu-241     1.36E+14
Am-241     2.42E+10
Cm-242     6.02E+12
Cm-244     6.52E+11


******** BEGINNING OF CHANGE CASE   3 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  4 OF 8

       *

  242  RDATNAM2001 'EARLY LOW'

********   RECORD NUMBER   242 REPLACES RECORD NUMBER   123   ********
       *

  243  RDOALARM001   1.09E+04

********   RECORD NUMBER   243 REPLACES RECORD NUMBER   124   ********
```

```
  244  RDNUMREL001   1

********   RECORD NUMBER   244 REPLACES RECORD NUMBER   125   ********
  245  RDMAXRIS001   1

********   RECORD NUMBER   245 REPLACES RECORD NUMBER   126   ********
  246  RDREFTIM001   0.0

********   RECORD NUMBER   246 REPLACES RECORD NUMBER   127   ********
  247  RDPLHEAT001   1.60E+06

********   RECORD NUMBER   247 REPLACES RECORD NUMBER   128   ********
  248  RDPLHITE001   30.

********   RECORD NUMBER   248 REPLACES RECORD NUMBER   129   ********
  249  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   249 REPLACES RECORD NUMBER   130   ********
  250  RDPDELAY001   1.73E+04

********   RECORD NUMBER   250 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  251  RDRELFRC001 7.6E-01 5.9E-03 4.1E-03 3.9E-03 1.0E-04 2.0E-03 4.6E-06 3.3E-05
7.8E-04
********   RECORD NUMBER   251 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   3 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   3
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      6.07E+13
Co-60      4.64E+13
Kr-85      2.92E+16
Kr-85m     3.06E+17
Kr-87      9.02E+16
Kr-88      5.39E+17
Rb-86      3.38E+13
Sr-89      3.07E+14
Sr-90      3.05E+13
Sr-91      2.73E+14
Sr-92      1.23E+14
Y-90       2.94E+12
Y-91       1.86E+13
Y-92       1.41E+14
Y-93       1.60E+13
Zr-95      2.47E+13
Zr-97      2.04E+13
Nb-95      2.51E+13
Mo-99      1.16E+16
Tc-99m     1.06E+16
Ru-103     9.75E+15
```

```
Ru-105     3.17E+15
Ru-106     3.42E+15
Rh-105     6.05E+15
Sb-127     1.31E+15
Sb-129     1.88E+15
Te-127     1.32E+15
Te-127m    1.76E+14
Te-129     2.33E+15
Te-129m    5.85E+14
Te-131m    1.62E+15
Te-132     1.71E+16
I-131      1.86E+16
I-132      1.97E+16
I-133      3.30E+16
I-134      9.49E+14
I-135      2.18E+16
Xe-133     4.65E+18
Xe-135     8.87E+17
Cs-134     2.95E+15
Cs-136     8.52E+14
Cs-137     1.70E+15
Ba-139     4.06E+14
Ba-140     4.34E+15
La-140     3.72E+14
La-141     1.05E+13
La-142     2.74E+12
Ce-141     1.75E+14
Ce-143     1.48E+14
Ce-144     1.38E+14
Pr-143     2.33E+13
Nd-147     9.67E+12
Np-239     2.04E+15
Pu-238     4.75E+11
Pu-239     4.03E+10
Pu-240     6.04E+10
Pu-241     1.36E+13
Am-241     2.28E+09
Cm-242     5.65E+11
Cm-244     6.12E+10


******** BEGINNING OF CHANGE CASE   4 USER INPUT ********
       ********************** RELEASE DATA BLOCK **************

       * SOURCE TERM NUMBER  5 OF 8

       *

  252  RDATNAM2001 'LATE HIGH'

********   RECORD NUMBER   252 REPLACES RECORD NUMBER   123   ********
       *

  253  RDOALARM001   5.58E+03

********   RECORD NUMBER   253 REPLACES RECORD NUMBER   124   ********
  254  RDNUMREL001   1

********   RECORD NUMBER   254 REPLACES RECORD NUMBER   125   ********
  255  RDMAXRIS001   1

********   RECORD NUMBER   255 REPLACES RECORD NUMBER   126   ********
  256  RDREFTIM001   0.5
```

```
********   RECORD NUMBER   256 REPLACES RECORD NUMBER   127   ********
  257  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   257 REPLACES RECORD NUMBER   128   ********
  258  RDPLHITE001   30.

********   RECORD NUMBER   258 REPLACES RECORD NUMBER   129   ********
  259  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   259 REPLACES RECORD NUMBER   130   ********
  260  RDPDELAY001   7.38E+04

********   RECORD NUMBER   260 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  261  RDRELFRC001 9.9E-01 1.2E-01 2.3E-02 4.8E-03 2.1E-04 3.7E-03 1.3E-05 1.2E-04
9.1E-04
********   RECORD NUMBER   261 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   4 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   4
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      1.11E+14
Co-60      8.58E+13
Kr-85      3.80E+16
Kr-85m     5.50E+15
Kr-87      3.27E+10
Kr-88      8.14E+14
Rb-86      1.82E+14
Sr-89      6.35E+14
Sr-90      6.40E+13
Sr-91      7.59E+13
Sr-92      2.16E+11
Y-90       2.19E+13
Y-91       5.30E+13
Y-92       4.34E+12
Y-93       6.78E+12
Zr-95      6.89E+13
Zr-97      1.85E+13
Nb-95      7.08E+13
Mo-99      1.61E+16
Tc-99m     1.54E+16
Ru-103     1.77E+16
Ru-105     7.78E+13
Ru-106     6.31E+15
Rh-105     6.98E+15
Sb-127     1.31E+15
Sb-129     2.71E+13
Te-127     1.40E+15
Te-127m    2.16E+14
```

```
Te-129     4.88E+14
Te-129m    7.06E+14
Te-131m    1.05E+15
Te-132     1.64E+16
I-131      3.42E+17
I-132      1.70E+16
I-133      2.67E+17
I-134      5.97E+06
I-135      2.43E+16
Xe-133     5.27E+18
Xe-135     2.23E+17
Cs-134     1.65E+16
Cs-136     4.50E+15
Cs-137     9.54E+15
Ba-139     4.23E+08
Ba-140     4.75E+15
La-140     2.15E+15
La-141     2.25E+11
La-142     3.03E+07
Ce-141     6.19E+14
Ce-143     3.01E+14
Ce-144     5.01E+14
Pr-143     8.67E+13
Nd-147     2.54E+13
Np-239     5.28E+15
Pu-238     1.73E+12
Pu-239     1.47E+11
Pu-240     2.20E+11
Pu-241     4.94E+13
Am-241     6.69E+09
Cm-242     1.59E+12
Cm-244     1.73E+11


******** BEGINNING OF CHANGE CASE   5 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  6 OF 8

       *

  262  RDATNAM2001 'LATE MEDIUM'

********   RECORD NUMBER   262 REPLACES RECORD NUMBER   123   ********
       *

  263  RDOALARM001   8.94E+03

********   RECORD NUMBER   263 REPLACES RECORD NUMBER   124   ********
  264  RDNUMREL001   1

********   RECORD NUMBER   264 REPLACES RECORD NUMBER   125   ********
  265  RDMAXRIS001   1

********   RECORD NUMBER   265 REPLACES RECORD NUMBER   126   ********
  266  RDREFTIM001   0.5

********   RECORD NUMBER   266 REPLACES RECORD NUMBER   127   ********
  267  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   267 REPLACES RECORD NUMBER   128   ********
  268  RDPLHITE001   30.
```

```
********   RECORD NUMBER   268 REPLACES RECORD NUMBER   129   ********
  269  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   269 REPLACES RECORD NUMBER   130   ********
  270  RDPDELAY001   8.04E+04

********   RECORD NUMBER   270 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  271  RDRELFRC001 8.2E-01 1.5E-02 4.3E-03 1.5E-03 8.0E-05 1.4E-03 5.1E-06 4.7E-05
3.5E-04
********   RECORD NUMBER   271 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   5 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   5
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      4.20E+13
Co-60      3.25E+13
Kr-85      3.15E+16
Kr-85m     3.43E+15
Kr-87      9.97E+09
Kr-88      4.31E+14
Rb-86      3.39E+13
Sr-89      2.42E+14
Sr-90      2.44E+13
Sr-91      2.53E+13
Sr-92      5.15E+10
Y-90       8.69E+12
Y-91       2.08E+13
Y-92       1.17E+12
Y-93       2.34E+12
Zr-95      2.70E+13
Zr-97      6.75E+12
Nb-95      2.78E+13
Mo-99      5.96E+15
Tc-99m     5.73E+15
Ru-103     6.68E+15
Ru-105     2.21E+13
Ru-106     2.39E+15
Rh-105     2.55E+15
Sb-127     4.02E+14
Sb-129     6.32E+12
Te-127     4.33E+14
Te-127m    6.76E+13
Te-129     1.50E+14
Te-129m    2.20E+14
Te-131m    3.15E+14
Te-132     5.06E+15
I-131      4.25E+16
I-132      5.21E+15
I-133      3.13E+16
```

```
I-134      1.75E+05
I-135      2.50E+15
Xe-133     4.27E+18
Xe-135     1.09E+17
Cs-134     3.09E+15
Cs-136     8.37E+14
Cs-137     1.78E+15
Ba-139     6.48E+07
Ba-140     1.82E+15
La-140     8.58E+14
La-141     6.39E+10
La-142     5.21E+06
Ce-141     2.42E+14
Ce-143     1.13E+14
Ce-144     1.96E+14
Pr-143     3.43E+13
Nd-147     9.92E+12
Np-239     2.02E+15
Pu-238     6.77E+11
Pu-239     5.76E+10
Pu-240     8.60E+10
Pu-241     1.94E+13
Am-241     2.63E+09
Cm-242     6.23E+11
Cm-244     6.78E+10


******** BEGINNING OF CHANGE CASE   6 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  7 OF 8

       *

  272  RDATNAM2001 'LATE LOW'

********   RECORD NUMBER   272 REPLACES RECORD NUMBER   123   ********
       *

  273  RDOALARM001   2.19E+04

********   RECORD NUMBER   273 REPLACES RECORD NUMBER   124   ********
  274  RDNUMREL001   1

********   RECORD NUMBER   274 REPLACES RECORD NUMBER   125   ********
  275  RDMAXRIS001   1

********   RECORD NUMBER   275 REPLACES RECORD NUMBER   126   ********
  276  RDREFTIM001   0.5

********   RECORD NUMBER   276 REPLACES RECORD NUMBER   127   ********
  277  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   277 REPLACES RECORD NUMBER   128   ********
  278  RDPLHITE001   30.

********   RECORD NUMBER   278 REPLACES RECORD NUMBER   129   ********
  279  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   279 REPLACES RECORD NUMBER   130   ********
  280  RDPDELAY001   9.90E+04

********   RECORD NUMBER   280 REPLACES RECORD NUMBER   131   ********
```

```
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  281  RDRELFRC001 7.0E-01 1.1E-03 7.9E-04 1.2E-03 8.7E-05 3.5E-06 2.6E-06 2.4E-05
7.4E-05
********   RECORD NUMBER   281 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   6 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   6
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	1.05E+11
Co-60	8.12E+10
Kr-85	2.69E+16
Kr-85m	1.32E+15
Kr-87	5.09E+08
Kr-88	1.04E+14
Rb-86	6.18E+12
Sr-89	2.62E+14
Sr-90	2.65E+13
Sr-91	1.89E+13
Sr-92	1.49E+10
Y-90	9.77E+12
Y-91	1.10E+13
Y-92	4.77E+11
Y-93	8.38E+11
Zr-95	1.37E+13
Zr-97	2.78E+12
Nb-95	1.42E+13
Mo-99	1.41E+13
Tc-99m	1.36E+13
Ru-103	1.66E+13
Ru-105	2.47E+10
Ru-106	5.97E+12
Rh-105	5.76E+12
Sb-127	3.10E+14
Sb-129	2.21E+12
Te-127	3.35E+14
Te-127m	5.41E+13
Te-129	1.17E+14
Te-129m	1.75E+14
Te-131m	2.24E+14
Te-132	3.86E+15
I-131	3.09E+15
I-132	3.98E+15
I-133	1.93E+15
I-134	2.16E+02
I-135	1.07E+14
Xe-133	3.54E+18
Xe-135	5.80E+16
Cs-134	5.67E+14
Cs-136	1.52E+14
Cs-137	3.28E+14

```
Ba-139     1.02E+06
Ba-140     3.80E+14
La-140     2.03E+14
La-141     1.31E+10
La-142     2.60E+05
Ce-141     1.23E+14
Ce-143     5.19E+13
Ce-144     1.00E+14
Pr-143     1.79E+13
Nd-147     4.99E+12
Np-239     9.70E+14
Pu-238     3.46E+11
Pu-239     2.94E+10
Pu-240     4.39E+10
Pu-241     9.89E+12
Am-241     1.35E+09
Cm-242     3.18E+11
Cm-244     3.46E+10


******** BEGINNING OF CHANGE CASE   7 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  8 OF 8

       *

  282  RDATNAM2001 'LATE LOWLOW'

********   RECORD NUMBER   282 REPLACES RECORD NUMBER   123   ********
       *

  283  RDOALARM001   2.56E+04

********   RECORD NUMBER   283 REPLACES RECORD NUMBER   124   ********
  284  RDNUMREL001   1

********   RECORD NUMBER   284 REPLACES RECORD NUMBER   125   ********
  285  RDMAXRIS001   1

********   RECORD NUMBER   285 REPLACES RECORD NUMBER   126   ********
  286  RDREFTIM001   0.5

********   RECORD NUMBER   286 REPLACES RECORD NUMBER   127   ********
  287  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   287 REPLACES RECORD NUMBER   128   ********
  288  RDPLHITE001   30.

********   RECORD NUMBER   288 REPLACES RECORD NUMBER   129   ********
  289  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   289 REPLACES RECORD NUMBER   130   ********
  290  RDPDELAY001   1.13E+05

********   RECORD NUMBER   290 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  291  RDRELFRC001 9.1E-01 8.1E-04 7.0E-04 7.6E-04 3.6E-05 2.1E-06 1.1E-06 1.2E-05
3.3E-05
********   RECORD NUMBER   291 REPLACES RECORD NUMBER   206   ********
```

.

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE 7 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE 7
NUMBER OF RECORDS CHANGED = 10
NUMBER OF RECORDS ADDED = 0
****

RELEASED INVENTORY OF ALL PLUMES

Co-58	6.27E+10
Co-60	4.87E+10
Kr-85	3.49E+16
Kr-85m	9.37E+14
Kr-87	7.95E+07
Kr-88	5.25E+13
Rb-86	5.44E+12
Sr-89	1.08E+14
Sr-90	1.10E+13
Sr-91	5.88E+12
Sr-92	2.28E+09
Y-90	4.34E+12
Y-91	4.66E+12
Y-92	9.41E+10
Y-93	2.72E+11
Zr-95	5.80E+12
Zr-97	1.00E+12
Nb-95	5.99E+12
Mo-99	8.14E+12
Tc-99m	7.83E+12
Ru-103	9.95E+12
Ru-105	8.07E+09
Ru-106	3.58E+12
Rh-105	3.20E+12
Sb-127	1.90E+14
Sb-129	7.49E+11
Te-127	2.07E+14
Te-127m	3.43E+13
Te-129	7.29E+13
Te-129m	1.11E+14
Te-131m	1.29E+14
Te-132	2.36E+15
I-131	2.24E+15
I-132	2.44E+15
I-133	1.25E+15
I-134	7.35E+00
I-135	5.23E+13
Xe-133	4.50E+18
Xe-135	5.59E+16
Cs-134	5.02E+14
Cs-136	1.34E+14
Cs-137	2.90E+14
Ba-139	6.43E+04
Ba-140	1.68E+14
La-140	9.55E+13
La-141	2.79E+09
La-142	1.92E+04
Ce-141	6.13E+13
Ce-143	2.39E+13

```
Ce-144     5.01E+13
Pr-143     8.22E+12
Nd-147     2.09E+12
Np-239     4.62E+14
Pu-238     1.73E+11
Pu-239     1.47E+10
Pu-240     2.20E+10
Pu-241     4.94E+12
Am-241     5.80E+08
Cm-242     1.34E+11
Cm-244     1.46E+10


USER INPUT IS READ FROM UNIT 25
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE

       *

    1  MIEANAM1001 'EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES'

    2  DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)

       *

       *             ORGNAM         ORGFLG

       *

    3  MIORGDEF001  'A-SKIN'        .TRUE.

    4  MIORGDEF002  'A-RED MARR'    .TRUE.

    5  MIORGDEF003  'A-LUNGS'       .TRUE.

    6  MIORGDEF004  'A-THYROIDH'    .TRUE.

    7  MIORGDEF005  'A-STOMACH'     .TRUE.

    8  MIORGDEF006  'A-LOWER LI'    .FALSE.  (does not contribute to early
fatalities)
    9  MIORGDEF007  'L-EDEWBODY'    .TRUE.

   10  MIORGDEF008  'L-RED MARR'    .TRUE.

   11  MIORGDEF009  'L-BONE SUR'    .TRUE.

   12  MIORGDEF010  'L-BREAST'      .TRUE.

   13  MIORGDEF011  'L-LUNGS'       .TRUE.

   14  MIORGDEF012  'L-THYROID'     .TRUE.

   15  MIORGDEF013  'L-LOWER LI'    .TRUE.

   16  MIORGDEF014  'L-BLAD WAL'    .TRUE.
```

```
17  MIORGDEF015  'L-LIVER'       .FALSE.
18  MIORGDEF016  'L-THYROIDH'    .TRUE.
    *
    * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
    *
19  MIENDAT2001  .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
    *
    * DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
    *                                2  *  WIND-SHIFT WITH ROTATION
    *                                3  *  WIND-SHIFT WITHOUT ROTATION
    *
20  MIIPLUME001  2
    *
    * NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
    *
21  MINUMFIN001  7    (3, 5 OR 7 ALLOWED)
    *
    * LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
    *
22  MIIPRINT001  0
    *
    * LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
    * BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
    *
    *             RISBIN
    *
23  MIRISCAT001   .FALSE.
    *
    * FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
    *
24  MIOVRRID001  .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
```

```
*******************************************************************************
      * POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
      *
   25 PDPOPFLG001  FILE
      *
      *PDPOPFLG001  UNIFORM
      *PDIBEGIN001  1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
      *PDPOPDEN001  50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))

*******************************************************************************
      * SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
      *
      * THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
      * ONE FOR EACH TYPE OF ACTIVTY:
      *
      * ACTIVITY TYPE:
      *     1 - EVACUEES WHILE MOVING
      *     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
      *     3 - SHELTERED ACTIVITY
      *
      * CLOUD SHIELDING FACTOR
      *
      *    SITE        GG   PB   SEQ  SUR  ZION
      *    SHELTERING  0.7  0.5  0.65 0.6  0.5
      *
      *            EVACUEES  NORMAL  SHELTER
      *
   26 SECSFACT001      1.     0.75     0.6   *  SURRY SHELTERING VALUE
      *
      * PROTECTION FACTOR FOR INHALATION
      *
   27 SEPROTIN001      1.     0.41      0.33  * VALUES FOR NORMAL ACTIVITY AND
```

```
*                                          SHELTERING SELECTED BY NRC STAFF
*
* BREATHING RATE (CUBIC METERS PER SECOND)
*
28  SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
*
* SKIN PROTECTION FACTOR
*
29  SESKPFAC001  1.0      0.41     0.33    * VALUES FOR NORMAL ACTIVITY AND
*                                            SHELTERING SELECTED BY NRC STAFF
*
* GROUND SHIELDING FACTOR
*
*    SITE        GG   PB   SEQ  SUR  ZION
*    SHELTERING  0.25 0.1  0.2  0.2  0.1
*
30  SEGSHFAC001      0.5    0.4    0.2   * VALUE FOR NORMAL ACTIVITY SELECTED BY
*                                           NRC STAFF
*
* RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
*
*   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
*   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
*   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
*   USED IN CHRONC.
*
31  SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
*
* RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
*
32  SERESHAF001   1.82E5    (2.11 DAYS)
```

```
*****************************************************************************
      * EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
      *
      * SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
      *
   33 EZEANAM2001  'NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE'
      *
      * THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
      * YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
      *
   34 EZWTNAME001  'PEOPLE'
      *
      * WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
      *
   35 EZWTFRAC001  1.00
      *
      * LAST RING IN THE MOVEMENT ZONE
      *
   36 EZLASMOV001     0   (A ZERO TURNS OFF THE EVACUATION MODEL)
      *
      ***********************************************************************
      * SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
      *                                         STORED IN /INPSRZ/, /RELOCA/
      *
      * DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
      *
   37 SRENDEMP001  604800.   (ONE WEEK)
      *
      * CRITICAL ORGAN FOR RELOCATION DECISIONS
      *
   38 SRCRIORG001 'L-EDEWBODY'
```

```
     *
     * HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
39   SRTIMHOT001  43200.    (ONE-HALF DAY)
     *
     * NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
40   SRTIMNRM001  86400.    (ONE DAY)
     *
     * HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
41   SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
     *
     * NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
42   SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
     * EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
     *
     * NUMBER OF EARLY FATALITY EFFECTS
     *
43   EFNUMEFA001   2
     *
     *            ORGNAM       EFFACA   EFFACB   EFFTHR
     *
44   EFATAGRP001 'A-RED MARR'      3.8      5.0    1.5
45   EFATAGRP002 'A-LUNGS'        10.0      7.0    5.0
*******************************************************************************
     * EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
     *
     * NUMBER OF EARLY INJURY EFFECTS
```

```
    *
46  EINUMEIN001  7
    *
    *            EINAME           ORGNAM   EISUSC EITHRE EIFACA EIFACB
    *
47  EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
48  EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
49  EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
50  EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
51  EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
52  EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
53  EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3

*******************************************************************************
    * ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
    *
    * NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
    *
54  LCNUMACA001   7
    *
    * THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
    *
55  LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
    *
    * DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
    *
56  LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
    *
    *            ACNAME     ORGNAM  ACSUSC DOSEFA DOSEFB CFRISK   CIRISK  DDREFA
    *
57  LCANCERS001 'LEUKEMIA' 'L-RED MARR'  1.0   1.0   0.0   9.70E-3   0.0     2.0
58  LCANCERS002 'BONE'     'L-BONE SUR'  1.0   1.0   0.0   9.00E-4   0.0     2.0
```

```
59  LCANCERS003 'BREAST'   'L-BREAST'    1.0   1.0   0.0   5.40E-3   1.7E-2  1.0
60  LCANCERS004 'LUNG'     'L-LUNGS'     1.0   1.0   0.0   1.55E-2   0.0     2.0
61  LCANCERS005 'THYROID'  'L-THYROIDH'  1.0   1.0   0.0   7.20E-4   7.2E-3  1.0
62  LCANCERS006 'GI'       'L-LOWER LI'  1.0   1.0   0.0   3.36E-2   0.0     2.0
63  LCANCERS007 'OTHER'    'L-EDEWBODY'  1.0   1.0   0.0   2.76E-2   0.0     2.0

*******************************************************************************
      * RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
      * TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
64  TYPE1NUMBER    4
      *
65  TYPE1OUT001    'ERL FAT/TOTAL'                1  15   NOCCDF (0 TO 50 MILES)
66  TYPE1OUT009    'CAN FAT/TOTAL'                1  15   NOCCDF
67  TYPE1OUT019    'CAN FAT/TOTAL'                1  11   NOCCDF (0 TO 10 MILES)
68  TYPE1OUT020    'ERL FAT/TOTAL'                1  11          (0 TO 10 MILES)

*******************************************************************************
      * RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
      * FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
69  TYPE2NUMBER  0
      *
      *            FATALITY RISK THRESHOLD
      *
      *TYPE2OUT001  0.

*******************************************************************************
      * RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
```

```
     * NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  70 TYPE3NUMBER  0
     *
     *               ORGAN NAME   DOSE THRESHOLD (Sv)
     *
     *TYPE3OUT001    'A-RED MARR'        1.5
     *TYPE3OUT002    'A-LUNGS'           5.0
     *TYPE3OUT003    'L-EDEWBODY'        0.05
*******************************************************************************
     * RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
     * 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
     *
     * POSSIBLE TYPES OF EFFECTS ARE:
     *
     *   'ERL FAT/TOTAL'
     *   'ERL INJ/INJURY NAME'
     *   'CAN FAT/CANCER NAME'
     *   'CAN FAT/TOTAL'
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  71 TYPE4NUMBER  3
     *
     *            RADIAL INDEX   TYPE OF EFFECT
     *
  72 TYPE4OUT001       1         'ERL FAT/TOTAL'
  73 TYPE4OUT002       2         'ERL FAT/TOTAL'
  74 TYPE4OUT003       3         'ERL FAT/TOTAL'
```

```
*******************************************************************************
       * RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
       *
       * TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   75  TYPE5NUMBER     1
       *
       *             ORGAN      I1DIS5     I2DIS5
       *
   76  TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)

*******************************************************************************
       * RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
       *
       * CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS
FOLLOWS:
       *
       *  PATHWAY NAME:
       *    'CLD'     - CLOUDSHINE
       *    'GRD'     - GROUNDSHINE
       *    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
       *    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE
CLOUD
       *    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
       *    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
       *    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
       *    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   77  TYPE6NUMBER     0
```

```
*
*             ORGNAM        PATHNM      I1DIS6   I2DIS6
*
*TYPE6OUT001  'A-RED MARR'    'TOT ACU'      1       19     (0-50 MILES)
*TYPE6OUT002  'A-LUNGS'       'TOT ACU'      1       19     (0-50 MILES)
*TYPE6OUT003  'L-EDEWBODY'    'TOT LIF'      1       26     (0-1000 MILES)

*******************************************************************************
* RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
*
* CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE7NUMBER   0
*
*                    NAME           I1DIS7       I2DIS7
*
*TYPE7OUT001     'ERL FAT/TOTAL'        1           19       (0-50 MILES)
*TYPE7OUT002     'CAN FAT/TOTAL'        1           26       (0-1000 MILES)

*******************************************************************************
* RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
*
* POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE8NUMBER   2
*
*                NAME       I1DIS8  I2DIS8
*
TYPE8OUT001 'ERL FAT/TOTAL'   1       3     NOCCDF
```

```
   81  TYPE8OUT002 'CAN FAT/TOTAL'   1      11     NOCCDF  (0-10 MILES)

*******************************************************************************

       * RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/

       *

       * peak dose to a given organ

       *

       *            NUMA

   82  TYPEANUMBER   0

       *

       *              ORGNAM    I1DISA  I2DISA

       *TYPEAOUT001 'L-EDEWBODY'  1       15

       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  341
NUMBER OF BLANK OR COMMENT RECORDS READ         =  258
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   82
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   82
*******************************************************************************
****************



The list of defined organs is as follows (A- is ACUTE and L- is LIFETIME):
   A-SKIN
   A-RED MARR
   A-LUNGS
   A-THYROIDH
   A-STOMACH
   L-EDEWBODY
   L-RED MARR
   L-BONE SUR
   L-BREAST
   L-LUNGS
   L-THYROID
   L-LOWER LI
   L-BLAD WAL
   L-THYROIDH
Am using a DOSFAC/DOSFAC2/IDCF2 dose factor file

READING FROM A DOSE CONVERSION FILE WITH THE FOLLOWING HEADER:
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1
```

```
NO EVACUATION REQUESTED


USING THE FOLLOWING SITE DATA FILE:

MACCS2 Site Data File for Indian Point Energy Center
SITE FILE
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   7 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   1 WATERSHEDS
  21 ECONOMIC REGIONS
 SPATIAL DISTANCES     KILOMETERS
    0.3219    1.6093    3.2187    4.8280    6.4374    8.0467    9.6561   11.2654
   12.8748   14.4841   16.0935   32.1869   48.2804   64.3739   80.4674
 POPULATION
        6.        0.      271.     2059.     2501.      909.      931.     1223.
     1389.     1503.     1696.    22955.    30654.    39620.    51057.0
       16.        7.      170.     1943.     2912.     2051.     1177.     1388.
     1577.     1798.     1913.    28140.    39917.    56226.    67213.0
       17.      193.      883.     2131.     2964.     3843.     3910.     3059.
     2464.     1998.     1915.    29419.    53692.    62559.    41261.0
       17.      364.     1275.     2132.     2977.     3453.     4507.     5282.
     6140.     6960.     7279.    74856.   119073.   152175.   176338.0
       17.      390.     1218.     2138.     2934.     3792.     4424.     5513.
     5587.     7201.     8076.   118335.   156720.   200581.   208394.0
       17.      409.     1256.     2136.     2970.     3592.     3698.     3857.
     5734.     6783.     7409.   121515.   144267.    54180.    34361.0
       17.      410.     1274.     2138.     2872.     3808.     4537.     5279.
     6284.     7194.     8060.   111946.    87735.   236426.   379990.0
       17.      360.     1268.     1645.      882.      495.       15.     1442.
      948.     1911.     3214.    98326.   481703.  1380249.  1218170.0
       17.      400.      701.      246.      124.      620.     1538.     3253.
     4129.     4455.     5138.   135211.  1164596.  3732339.  3164306.0
       17.      377.      562.      500.     1700.     2882.     3544.     4187.
     4873.     5517.     6159.   202605.   395389.   922649.  1034467.0
       17.      217.      187.     1566.     2274.     2916.     3574.     4188.
     4361.     5358.     6138.   183372.   276902.   197362.   246076.0
        9.        0.      620.     1623.     2197.     2924.     3550.     4014.
     4196.     4255.     4335.    64428.   209197.   109102.    85849.0
        3.        0.      855.     1602.     2267.     2815.     2368.     1787.
     1423.     1775.     2030.    32026.    50974.    61380.    57384.0
        2.        0.      938.     1624.     2245.     1341.     1135.     1419.
     1505.     1756.     2071.    32528.    54577.    57977.    29719.0
        2.       45.      974.     1589.     1933.      972.     1140.     1351.
     1541.     1781.     2093.    32572.    54557.    24046.    22317.0
        3.       50.      809.     1051.     1587.      740.     1204.     1407.
     1620.     1787.     2028.    31660.    32569.    27599.    34374.0
 LAND FRACTION
 0.37 0.00 0.23 0.96 0.99 0.94 0.78 0.87 0.85 0.81 0.82 0.83 0.94 0.94 0.93
 0.92 0.02 0.13 0.91 0.97 0.98 1.00 1.00 0.98 0.99 0.94 0.95 0.99 0.99 0.98
 1.00 0.47 0.69 1.00 0.99 1.00 0.98 0.96 0.95 1.00 0.94 0.91 0.94 0.95 0.96
 1.00 0.89 0.99 1.00 0.99 0.90 0.96 0.95 0.96 0.96 0.97 0.91 0.92 0.95 0.98
 1.00 0.95 0.95 1.00 0.98 0.99 0.94 0.99 0.87 0.99 0.99 0.92 0.97 0.97 0.78
 1.00 1.00 0.98 1.00 0.99 0.93 0.79 0.69 0.89 0.93 0.91 0.97 0.95 0.27 0.12
 1.00 1.00 0.99 1.00 0.96 0.99 0.96 0.95 0.98 0.99 0.99 0.93 0.53 0.48 0.98
 1.00 0.88 0.99 0.77 0.29 0.13 0.00 0.26 0.16 0.30 0.43 0.77 0.70 0.79 0.82
 1.00 0.97 0.55 0.12 0.05 0.21 0.43 0.77 0.85 0.81 0.83 0.84 0.87 0.81 0.59
 1.00 0.92 0.44 0.31 0.75 0.99 0.99 0.99 1.00 1.00 1.00 0.99 0.99 0.93 0.92
 1.00 0.53 0.18 0.96 1.00 1.00 1.00 0.99 0.89 0.97 0.99 0.98 0.93 0.90 0.94
 0.52 0.00 0.64 1.00 0.97 1.00 0.99 0.95 0.91 0.92 0.94 0.94 0.93 0.97 0.94
 0.19 0.00 0.88 0.99 1.00 1.00 1.00 0.98 0.86 0.95 0.97 0.97 0.98 0.97 0.97
```

```
 0.13 0.00 0.96 1.00 1.00 0.99 0.94 0.99 0.91 0.94 0.99 0.98 0.99 0.97 0.95
 0.14 0.14 1.00 0.98 0.99 0.98 0.94 0.94 0.93 0.95 1.00 0.98 0.99 0.99 0.96
 0.20 0.16 0.83 0.57 0.65 0.75 0.99 0.98 0.98 0.95 0.97 0.96 0.96 0.99 0.96
 REGION INDEX
2021202020141414141314060606060
2021202020141414141414140606060
2020202020202014141414140603030
2020202020202020202020200101040
2020202020202020202020200101040
2020202020202020202020200101170
2020202020202020202020200112170
2020202020202120202020202012120
2020202021161616161616160215110
2020201616161616161616020205100
2020161616161616161616160807070
2021161616161616161616130809090
2021161616161313131313131309090
2021161616131313131313131313180
2016161616131313131313131318180
2016161620131313131313131919190
 WATERSHED INDEX
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 CROP SEASON AND SHARE
   1 PASTURE               90. 270.  0.0162
   2 STORED FORAGE        150. 240.  0.0480
   3 GRAINS               150. 240.  0.0079
   4 GRN LEAFY VEGETABLES 150. 240.  0.0005
   5 OTHER FOOD CROPS     150. 240.  0.0036
   6 LEGUMES AND SEEDS    150. 240.  0.0002
   7 ROOTS AND TUBERS     150. 240.  0.0018
 WATERSHED DEFINITION  -- INITIAL AND ANNUAL WASHOFF AND INGESTION FACTORS
   1 Sr-89                           5.00E-06
   2 Sr-90                           5.00E-06
   3 Cs-134                          5.00E-06
   4 Cs-137                          5.00E-06
 REGIONAL ECONOMIC DATA
  01 FAIRFIELD      0.032 .008    5831.0   66592.0  287881.0
  02 BERGEN         0.009 .000   14568.0  124496.0  262186.0
  03 LITCHFIELD     0.159 .371     795.0   22373.0  186016.0
  04 NEWHAVEN       0.067 .029    5439.0   36942.0  192427.0
  05 ESSEX          0.002 .000   11903.0  120139.0  197400.0
  06 DUTCHESS       0.219 .207     698.0   16206.0  169417.0
  07 MORRIS         0.057 .006    6005.0   67365.0  277661.0
  08 PASSAIC        0.013 .000    9836.0   81944.0  161864.0
  09 SUSSEX         0.226 .311     483.0   18496.0  165741.0
  10 UNION          0.003 .000   91646.0  243939.0  209708.0
  11 KINGS          0.000 .000       0.0       0.0  123701.0
  12 NASSAU         0.006 .000   18237.0   88422.0  239932.0
```

```
  13 ORANGE         0.207 .288    1516.0   13148.0  148873.0
  14 PUTNAM         0.045 .000     892.0   24525.0  180274.0
  15 QUEENS         0.000 .000       0.0       0.0  226728.0
  16 ROCKLAND       0.011 .047    6365.0   65755.0  203359.0
  17 SUFFOLK        0.058 .000   14567.0   54566.0  192471.0
  18 SULLIVAN       0.103 .233    1466.0    7911.0  139374.0
  19 ULSTER         0.116 .043    1019.0    9908.0  138739.0
  20 WESTCHESTR     0.036 .009    2206.0   39116.0  263389.0
  21 WATER          0.000 .000       0.0       0.0       0.0
POPULATION

>>The Record Identifier TYPEBNUMBER was not found:
>>Type B results not being generated



USER INPUT IS READ FROM UNIT 26
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE

       *

    1  CHCHNAME001 'CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model'

*******************************************************************************

       * EMERGENCY RESPONSE COST DATA BLOCK

       *

       * DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)

       *

    2  CHEVACST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

       *

       * DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)

       *

    3  CHRELCST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

*******************************************************************************

       * LONG TERM PROTECTIVE ACTION DATA BLOCK

       *

       * Duration of the intermediate phase period--at version 1.11c TMIPND is no

       * longer processed.  The new input variable DUR_INTPHAS is the period's
```

```
   * duration, not the time after plume arrival at which the period ends.
   *
4  DUR_INTPHAS   0.0    (in seconds)   (no intermediate phase)
   *
   * LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
   * PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
   *
5  CHTMPACT001   1.58E8             (5 YEARS)
   *
   * DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
   *
6  CHDSCRTI001   1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
   *
   * DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
   *
7  CHDSCRLT001    0.04
   *
   * CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
   *
8  CHCRTOCR001 'L-EDEWBODY'
   *
   * Long Term Exposure Period    Previously permanently set to:
   *    one million years = 3.15 E13 seconds
   *    MACCS2 allowable range is 3.15E7 to 1.E10
   *
9  CHEXPTIM001    9.45E8
*******************************************************************************
   * DECONTAMINATION PLAN DATA BLOCK
   *
   * NUMBER OF LEVELS OF DECONTAMINATION
   *
```

```
   10  CHLVLDEC001  2
       *
       * DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
       *  (SECONDS)
       *
   11  CHTIMDEC001   5.184E6  1.0368E7    (60, 120 DAYS)
       *
       * DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF
DECONTAMINATION
       *
   12  CHDSRFCT001   3.      15.
       *
       * COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
       *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
       *
   13  CHCDFRM0001   972.   2160.
       *
       * COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
       *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
       *
   14  CHCDNFRM001   5184.   13824.
       *
       * FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
       *  FOR THE VARIOUS DECONTAMINATION LEVELS
       *
   15  CHFRFDL0001  .3      .35
       *
       * FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
       *  FOR THE VARIOUS DECONTAMINATION LEVELS
       *
   16  CHFRNFDL001  .7      .5
       *
       * FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
```

```
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
17   CHTFWKF0001  .10     .33
     *
     * FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
18   CHTFWKNF001  .33     .33
     *
     * AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
     *
19   CHDLBCST001   60480.
*******************************************************************************
     * INTERDICTION COST DATA BLOCK
     *
     * DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
     *
20   CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
     *
     * INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER
YEAR)
     * THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
     *
21   CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
     *
     * POPULATION RELOCATION COST (DOLLARS/PERSON):
     *  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
     *  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
     *
22   CHPOPCST001   8640.
*******************************************************************************
```

```
     * GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
     *
     * NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
     *
  23 CHNGWTRM001   2
     *
     * GROUNDSHINE WEATHERING COEFFICIENTS
     *
  24 CHGWCOEF001   0.5    0.5            (JON HELTON)
     *
     * HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
     *
  25 CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*******************************************************************************
     * RESUSPENSION WEATHERING DEFINITION DATA BLOCK
     *
     * NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
     *
  26 CHNRWTRM001    3
     *
     * RESUSPENSION CONCENTRATION COEFFICIENTS   (/ METER)
     *  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
     *
  27 CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
     *
     * HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
     *
  28 CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*******************************************************************************
     * SITE REGION DESCRIPTION DATA BLOCK
     *
```

```
     * FRACTION OF AREA THAT IS LAND IN THE REGION
     *
29   CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
     *
30   CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
     *  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN
FARMS)
     *
31   CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
     *  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME
CONSUMPTION)
     *
32   CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * VALUE OF FARM WEALTH (DOLLARS/HECTARE)
     *  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
     *
33   CHVALWF0001    50071.
     *
     * FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
     *
34   CHFRFIM0001   0.25
     *
     * NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
     *  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
     *  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
     *
```

```
35  CHVALWNF001    208838.
    *
    * FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
    *
36  CHFRNFIM001   0.8
    ******************************************************************************
37  CHFDPATH001 'NEW'
    *
    * name of the COMIDA2 binary output file
    *
38  BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
    *
    * Dose limits triggering first year crop disposal of the separate
    * milk and non-milk components of the diet, corresponding in purpose,
    * more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
    *
    * For NUREG-1150 calculations, the maximum allowable ground concentrations
for
    * production of milk and non-milk crops contaminated by an accident occurring
    * in the growing season were derived based on an assumed maximum allowable
    * dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
    * reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
    * the prior results, it is being assumed, for simplicity, that milk and
    * non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
    * effective dose limit used in NUREG-1150 is equally split between milk and
    * non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
    * thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
    * portions of the diet.
    *
    *             effective     thyroid  (doses in sieverts)
39  DOSEMILK001    0.025          0.075
40  DOSEOTHR001    0.025          0.075
    *
```

```
      * Annual dose limits for the subsequent year's (i.e., after the first year)
      * interdiction of BOTH the milk and non-milk (combined) components of the
diet
      *
      * Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
      * an ingestion dose integrated from zero to infinity.  It is not possible to
      * translate those parameter values into corresponding annual dose limits, as
is
      * required by the COMIDA2-based food model.  The "total" dose limits used in
      * NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are
used
      * here as annual dose limits for interdiction of food production in years the
      * years subsequent to the accident.
      *
      *             effective     thyroid  (doses in sieverts)
   41 DOSELONG001    0.005          0.015
      *
      * NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
      *
   42 CHNUMWPI001    4
      *
      * TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
      *
      * IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
      *  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
      *
      *                        INITIAL     ANNUAL    INGESTION FACTOR
      *             WATER      WASHOFF     WASHOFF    ((Bq INGESTED)/
      *            NUCLIDE     FRACTION     RATE       (Bq IN WATER))
      *
      *             NAMWPI      WSHFRI      WSHRTA         WINGF
   43 CHWTRISO001   Sr-89        0.01       0.004          5.0E-6
   44 CHWTRISO002   Sr-90        0.01       0.004          5.0E-6
   45 CHWTRISO003   Cs-134       0.005      0.001          5.0E-6
```

```
   46  CHWTRISO004   Cs-137       0.005      0.001          5.0E-6

*******************************************************************************

       * SPECIAL OPTIONS DATA BLOCK

       *

       * DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING
ON!!
       *          KSWDSC

       *

   47  CHKSWTCH001   0

*******************************************************************************

       * DEFINE THE TYPE 9 RESULTS

       *

       * LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS

       *

       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED

       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12

       *

   48  TYPE9NUMBER   1      (UP TO 10 ALLOWED)

       *

       *              ORGNAM        INNER      OUTER

       *

   49  TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)

*******************************************************************************

       * ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS

       *

       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED

       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12

       *

   50  TYP10NUMBER   1      (UP TO 10 ALLOWED)

       *

       *              INNER      OUTER
```

```
       *
   51  TYP10OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
       *
       * SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
       * A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE
OUTPUT.
       *
   52  TYP11FLAG11  .FALSE.
*****************************************************************************
       * IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF
IMPACTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
       *
   53  TYP12NUMBER   0      (UP TO 10 ALLOWED)
       *
       *               INNER      OUTER
       *
       *TYP12OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * Maximal annual food ingestion dose to an individual, requested by IXOT13
       *
       * This result is calculated after accounting for temporary or
       * permanent interdiction.  It is only available for the "new" food model.
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       *
   54  TYP13NUMBER   0   (UP TO 10 ALLOWED)
       *
```

```
* IRAD13 is the radial spatial interval at which results are requested
*
* ORGN13 is the name of the organ for which results are requested
*  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
*
*          IRAD13   ORGN13
*
*TYP13OUT001   2    EFFECTIVE
*TYP13OUT002   4    EFFECTIVE
*TYP13OUT003   6    EFFECTIVE
*TYP13OUT004   8    EFFECTIVE
*TYP13OUT005  10    EFFECTIVE
*TYP13OUT006  12    EFFECTIVE
*TYP13OUT007  15    EFFECTIVE
*TYP13OUT008   2    THYROID
*TYP13OUT009   4    THYROID
*TYP13OUT010   6    THYROID
*TYP13OUT011   8    THYROID
*TYP13OUT012  10    THYROID
*TYP13OUT013  12    THYROID
*TYP13OUT014  15    THYROID
.
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  318
NUMBER OF BLANK OR COMMENT RECORDS READ         =  263
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   54
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   54
*******************************************************************************
****************


COMIDA2 binary file header =
COMIDA2 01/14/2004 13:06:02   Version 1.11.1, 01/12/2004

COMIDA2 descriptive title  =
```

```
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47

Seven new organs added with MACCS Version 1.5.11.1


A SITE DATA FILE IS BEING USED FOR BOTH "EARLY" AND "CHRONC"

 7 CANCER EFFECTS ARE DEFINED IN THE MODEL.
    INDEX  CANCER EFFECT                     ORGAN       ALPHA       BETA     CFRISK
   CIRISK
       1                        LEUKEMIA     L-RED MARR   1.000E+00  0.000E+00
9.700E-03  0.000E+00
       2                        BONE         L-BONE SUR   1.000E+00  0.000E+00
9.000E-04  0.000E+00
       3                        BREAST       L-BREAST     1.000E+00  0.000E+00
5.400E-03  1.700E-02
       4                        LUNG         L-LUNGS      1.000E+00  0.000E+00
1.550E-02  0.000E+00
       5                        THYROID      L-THYROIDH   1.000E+00  0.000E+00
7.200E-04  7.200E-03
       6                        GI           L-LOWER LI   1.000E+00  0.000E+00
3.360E-02  0.000E+00
       7                        OTHER        L-EDEWBODY   1.000E+00  0.000E+00
2.760E-02  0.000E+00

  TIME OF HOTSPOT RELOCATION IS 4.3200E+04.
  TIME OF NORMAL RETURN IS  8.640E+04 AND THE EMERGENCY PHASE ENDS AT  6.048E+05.


GROUNDSHINE SHIELDING FACTOR   = 0.400

RESUSPENSION PROTECTION FACTOR = 0.410

BREATHING RATE (CUBIC M/S) =   2.660E-04

  DISPERSION MODEL FLAG IS  2

  WINDROSE PROBABILITIES BY WIND DIRECTION AND MET BIN NUMBER
 BIN     1      2      3      4      5      6      7      8      9     10     11
12     13     14     15     16
    1 0.2458 0.1137 0.0654 0.0549 0.0484 0.0575 0.0706 0.0680 0.1582 0.0144 0.0039
0.0039 0.0000 0.0000 0.0052 0.0902
    2 0.1373 0.0564 0.0319 0.0049 0.0098 0.1054 0.2181 0.0686 0.2525 0.0686 0.0074
0.0074 0.0000 0.0000 0.0000 0.0319
    3 0.1765 0.0647 0.0824 0.0176 0.0294 0.0294 0.0176 0.0176 0.0235 0.0706 0.0294
0.0471 0.0588 0.1059 0.0824 0.1471
    4 0.1457 0.0997 0.0441 0.0374 0.0336 0.0316 0.0384 0.0479 0.1333 0.1371 0.0748
0.0316 0.0192 0.0249 0.0278 0.0729
    5 0.1088 0.0495 0.0162 0.0154 0.0463 0.0633 0.1234 0.0747 0.1753 0.2378 0.0511
0.0081 0.0008 0.0000 0.0024 0.0268
    6 0.0531 0.0371 0.0050 0.0020 0.0200 0.0681 0.2074 0.0942 0.1743 0.3176 0.0180
0.0010 0.0000 0.0000 0.0000 0.0020
    7 0.0000 0.0270 0.0000 0.0000 0.0405 0.0541 0.1757 0.0270 0.2432 0.4324 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    9 0.1181 0.0851 0.0694 0.0451 0.0330 0.0243 0.0226 0.0278 0.0712 0.0764 0.0590
0.0503 0.0625 0.0851 0.0608 0.1094
   10 0.1524 0.1122 0.0431 0.0384 0.0240 0.0307 0.0336 0.0240 0.0537 0.1774 0.1361
0.0499 0.0249 0.0134 0.0144 0.0719
   11 0.2151 0.0814 0.0174 0.0174 0.0262 0.0581 0.0552 0.0378 0.0378 0.2820 0.1221
0.0029 0.0000 0.0000 0.0000 0.0465
   12 0.2754 0.1884 0.0000 0.0290 0.0290 0.0580 0.1014 0.0290 0.0725 0.2029 0.0145
```

0.0000 0.0000 0.0000 0.0000 0.0000
13 0.0684 0.0427 0.0385 0.0342 0.0171 0.0256 0.0171 0.0513 0.1325 0.2436 0.1026
0.0128 0.0641 0.0342 0.0641 0.0513
14 0.0430 0.0215 0.0108 0.0108 0.0000 0.0072 0.0000 0.0072 0.0860 0.3369 0.2616
0.0968 0.0502 0.0179 0.0215 0.0287
15 0.0204 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.3673 0.5714
0.0408 0.0000 0.0000 0.0000 0.0000
16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7500 0.2500
0.0000 0.0000 0.0000 0.0000 0.0000
17 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
18 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
19 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
20 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
21 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
22 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
23 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
24 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
25 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
26 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
27 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
28 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
29 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
30 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
31 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
32 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
33 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
34 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
35 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
36 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
37 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
38 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
39 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
40 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
41 0.1414 0.0758 0.0333 0.0260 0.0266 0.0420 0.0742 0.0482 0.1203 0.1926 0.0713
0.0261 0.0199 0.0197 0.0209 0.0615

Processing a Site Data File with Header: MACCS2 Site Data File for Indian Point Energy Center

```
 SITE FILE

 THIS PROGRAM CURRENTLY ALLOWS THE GENERATION OF UP TO  394 RESULTS

YOU HAVE REQUESTED  10 RESULTS FROM "EARLY" COMPOSED OF:

   4 RESULTS OF TYPE 1
   0 RESULTS OF TYPE 2
   0 RESULTS OF TYPE 3
   3 RESULTS OF TYPE 4
   1 RESULTS OF TYPE 5
   0 RESULTS OF TYPE 6
   0 RESULTS OF TYPE 7
   2 RESULTS OF TYPE 8
   0 RESULTS OF TYPE A
   0 RESULTS OF TYPE B

YOU HAVE REQUESTED   30 RESULTS FROM "CHRONC" COMPOSED OF:

  17 RESULTS OF TYPE 9
  13 RESULTS OF TYPE 10
   0 RESULTS OF TYPE 11
   0 RESULTS OF TYPE 12
   0 RESULTS OF TYPE 13


     TRIAL        DAY       HOUR        BIN     PRBMET
         1        152         15         18   1.86E-03
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
         2        152         20         21   6.91E-03
For Julian Day 152, selecting COMIDA2 results # 4 of 9
         3        159          6          3   4.85E-03
For Julian Day 159, selecting COMIDA2 results # 4 of 9
         4        163         13          1   2.18E-02
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         5        164          2         16   2.28E-04
For Julian Day 164, selecting COMIDA2 results # 4 of 9
         6        164         19          9   1.64E-02
For Julian Day 164, selecting COMIDA2 results # 4 of 9
         7        168         12          4   2.98E-02
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         8        176          5         16   2.28E-04
For Julian Day 176, selecting COMIDA2 results # 5 of 9
         9        177          7         40   5.71E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
        10        177         12         39   2.57E-04
```

```
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         11        177         13         38   1.14E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         12        177         14         37   1.14E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         13        177         15         35   8.56E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         14        177         17         36   1.14E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         15        180         10         40   5.71E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         16        180         14         39   2.57E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         17        180         17         39   2.57E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         18        180         18         38   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         19        180         19         38   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         20        180         20         37   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         21        180         21         37   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         22        180         22         36   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         23        180         23         36   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         24        186          6         10   2.98E-02
For Julian Day 186, selecting COMIDA2 results # 5 of 9
         25        186         19         22   1.12E-02
For Julian Day 186, selecting COMIDA2 results # 5 of 9
         26        189         20         28   1.08E-03
For Julian Day 189, selecting COMIDA2 results # 5 of 9
         27        190          1         27   6.28E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         28        190          2         26   1.71E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         29        190          3         25   2.57E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         30        190          5         24   1.14E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         31        195          1         23   1.37E-03
For Julian Day 195, selecting COMIDA2 results # 6 of 9
         32        196         15         19   3.20E-03
For Julian Day 196, selecting COMIDA2 results # 6 of 9
         33        200         22         12   1.97E-03
For Julian Day 200, selecting COMIDA2 results # 6 of 9
         34        202          4         13   6.68E-03
For Julian Day 202, selecting COMIDA2 results # 6 of 9
         35        205          9         20   2.00E-03
For Julian Day 205, selecting COMIDA2 results # 6 of 9
         36        205         13         35   8.56E-04
For Julian Day 205, selecting COMIDA2 results # 6 of 9
         37        205         18         29   6.28E-04
For Julian Day 205, selecting COMIDA2 results # 6 of 9
         38        206          8          6   2.85E-02
For Julian Day 206, selecting COMIDA2 results # 6 of 9
         39        206         12          2   1.16E-02
For Julian Day 206, selecting COMIDA2 results # 6 of 9
         40        210         16         17   1.03E-02
For Julian Day 210, selecting COMIDA2 results # 6 of 9
         41        219         14          1   2.18E-02
For Julian Day 219, selecting COMIDA2 results # 6 of 9
```

```
         42        223         17          5   3.52E-02
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         43        223         24         11   9.82E-03
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         44        236          1         14   7.96E-03
For Julian Day 236, selecting COMIDA2 results # 7 of 9
         45        242         23          9   1.64E-02
For Julian Day 242, selecting COMIDA2 results # 7 of 9
         46        248          8          3   4.85E-03
For Julian Day 248, selecting COMIDA2 results # 7 of 9
         47        261         21         18   1.86E-03
For Julian Day 261, selecting COMIDA2 results # 8 of 9
         48        262          9         35   8.56E-04
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         49        262         18          7   2.11E-03
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         50        267          6         16   2.28E-04
For Julian Day 267, selecting COMIDA2 results # 8 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
         51        267          7         16   2.28E-04
For Julian Day 267, selecting COMIDA2 results # 8 of 9
         52        267         21         15   1.40E-03
For Julian Day 267, selecting COMIDA2 results # 8 of 9
         53        270         18         13   6.68E-03
For Julian Day 270, selecting COMIDA2 results # 8 of 9
         54        272         21         29   6.28E-04
For Julian Day 272, selecting COMIDA2 results # 8 of 9
         55        282         18          9   1.64E-02
For Julian Day 282, selecting COMIDA2 results # 8 of 9
         56        287         24         10   2.98E-02
For Julian Day 287, selecting COMIDA2 results # 9 of 9
         57        289         22         24   1.14E-04
For Julian Day 289, selecting COMIDA2 results # 9 of 9
         58        293         10         19   3.20E-03
For Julian Day 293, selecting COMIDA2 results # 9 of 9
         59        299         12          4   2.98E-02
For Julian Day 299, selecting COMIDA2 results # 9 of 9
         60        309         13         25   2.57E-04
For Julian Day 309, selecting COMIDA2 results # 9 of 9
         61        309         14         24   1.14E-04
For Julian Day 309, selecting COMIDA2 results # 9 of 9
         62        310          6         12   1.97E-03
For Julian Day 310, selecting COMIDA2 results # 9 of 9
         63        312         21         14   7.96E-03
For Julian Day 312, selecting COMIDA2 results # 9 of 9
         64        315          2         11   9.82E-03
For Julian Day 315, selecting COMIDA2 results # 9 of 9
         65        317         18         22   1.12E-02
For Julian Day 317, selecting COMIDA2 results # 9 of 9
         66        321         20         15   1.40E-03
For Julian Day 321, selecting COMIDA2 results # 9 of 9
         67        323          3         14   7.96E-03
For Julian Day 323, selecting COMIDA2 results # 9 of 9
         68        323          5         13   6.68E-03
For Julian Day 323, selecting COMIDA2 results # 9 of 9
         69        325         16         17   1.03E-02
For Julian Day 325, selecting COMIDA2 results # 9 of 9
         70        325         22         23   1.37E-03
For Julian Day 325, selecting COMIDA2 results # 9 of 9
         71        329          7         21   6.91E-03
For Julian Day 329, selecting COMIDA2 results # 9 of 9
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         72        330         23          6   2.85E-02
For Julian Day 330, selecting COMIDA2 results # 9 of 9
         73        344         19         18   1.86E-03
For Julian Day 344, selecting COMIDA2 results # 1 of 9
         74        345         12         22   1.12E-02
For Julian Day 345, selecting COMIDA2 results # 1 of 9
         75        345         15         20   2.00E-03
For Julian Day 345, selecting COMIDA2 results # 1 of 9
         76        345         19         17   1.03E-02
For Julian Day 345, selecting COMIDA2 results # 1 of 9
         77        346         12          4   2.98E-02
For Julian Day 346, selecting COMIDA2 results # 1 of 9
         78        350         18          5   3.52E-02
For Julian Day 350, selecting COMIDA2 results # 1 of 9
         79        353         16          3   4.85E-03
For Julian Day 353, selecting COMIDA2 results # 1 of 9
         80        358          9         19   3.20E-03
For Julian Day 358, selecting COMIDA2 results # 1 of 9
         81        358         18         35   8.56E-04
For Julian Day 358, selecting COMIDA2 results # 1 of 9
         82        362          1          7   2.11E-03
For Julian Day 362, selecting COMIDA2 results # 1 of 9
         83          1          6         11   9.82E-03
For Julian Day   1, selecting COMIDA2 results # 1 of 9
         84         14         13          1   2.18E-02
For Julian Day  14, selecting COMIDA2 results # 1 of 9
         85         24          6         10   2.98E-02
For Julian Day  24, selecting COMIDA2 results # 1 of 9
         86         27          1         21   6.91E-03
For Julian Day  27, selecting COMIDA2 results # 1 of 9
         87         30         12          2   1.16E-02
For Julian Day  30, selecting COMIDA2 results # 1 of 9
         88         31          8          5   3.52E-02
For Julian Day  31, selecting COMIDA2 results # 1 of 9
         89         33          7         12   1.97E-03
For Julian Day  33, selecting COMIDA2 results # 2 of 9
         90         33         24         14   7.96E-03
For Julian Day  33, selecting COMIDA2 results # 2 of 9
         91         34         18         29   6.28E-04
For Julian Day  34, selecting COMIDA2 results # 2 of 9
         92         37         15         23   1.37E-03
For Julian Day  37, selecting COMIDA2 results # 2 of 9
         93         48          6         15   1.40E-03
For Julian Day  48, selecting COMIDA2 results # 2 of 9
         94         53         18          6   2.85E-02
For Julian Day  53, selecting COMIDA2 results # 2 of 9
         95         55         17          5   3.52E-02
For Julian Day  55, selecting COMIDA2 results # 2 of 9
         96         57         14          2   1.16E-02
For Julian Day  57, selecting COMIDA2 results # 2 of 9
         97         62         20         12   1.97E-03
For Julian Day  62, selecting COMIDA2 results # 2 of 9
         98         66          9         20   2.00E-03
For Julian Day  66, selecting COMIDA2 results # 2 of 9
         99         71          8          7   2.11E-03
For Julian Day  71, selecting COMIDA2 results # 2 of 9
        100         77         22          3   4.85E-03
For Julian Day  77, selecting COMIDA2 results # 2 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
        101         80          1         10   2.98E-02
For Julian Day  80, selecting COMIDA2 results # 2 of 9
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        102         80         18         19   3.20E-03
For Julian Day  80, selecting COMIDA2 results # 2 of 9
        103         86         15          1   2.18E-02
For Julian Day  86, selecting COMIDA2 results # 2 of 9
        104         90         19         28   1.08E-03
For Julian Day  90, selecting COMIDA2 results # 2 of 9
        105         90         24         27   6.28E-04
For Julian Day  90, selecting COMIDA2 results # 2 of 9
        106         91          1         26   1.71E-04
For Julian Day  91, selecting COMIDA2 results # 2 of 9
        107         91         20         22   1.12E-02
For Julian Day  91, selecting COMIDA2 results # 2 of 9
        108         95         19          6   2.85E-02
For Julian Day  95, selecting COMIDA2 results # 3 of 9
        109         97          6          7   2.11E-03
For Julian Day  97, selecting COMIDA2 results # 3 of 9
        110        101          5         11   9.82E-03
For Julian Day 101, selecting COMIDA2 results # 3 of 9
        111        101          7          4   2.98E-02
For Julian Day 101, selecting COMIDA2 results # 3 of 9
        112        103         24         31   1.14E-04
For Julian Day 103, selecting COMIDA2 results # 3 of 9
        113        104          7         34   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        114        104          8         34   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        115        104          9         34   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        116        104         10         34   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        117        104         11         33   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        118        104         12         33   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        119        104         13         31   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        120        104         14         29   6.28E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        121        108         24         13   6.68E-03
For Julian Day 108, selecting COMIDA2 results # 3 of 9
        122        117         12         17   1.03E-02
For Julian Day 117, selecting COMIDA2 results # 3 of 9
        123        123          2         21   6.91E-03
For Julian Day 123, selecting COMIDA2 results # 3 of 9
        124        124         16         20   2.00E-03
For Julian Day 124, selecting COMIDA2 results # 3 of 9
        125        126         15         27   6.28E-04
For Julian Day 126, selecting COMIDA2 results # 3 of 9
        126        126         18         24   1.14E-04
For Julian Day 126, selecting COMIDA2 results # 3 of 9
        127        129         14          2   1.16E-02
For Julian Day 129, selecting COMIDA2 results # 3 of 9
        128        130          1         23   1.37E-03
For Julian Day 130, selecting COMIDA2 results # 3 of 9
        129        130         20          9   1.64E-02
For Julian Day 130, selecting COMIDA2 results # 3 of 9
        130        133          1         15   1.40E-03
For Julian Day 133, selecting COMIDA2 results # 3 of 9
        131        133          6         28   1.08E-03
For Julian Day 133, selecting COMIDA2 results # 3 of 9
        132        133         13         26   1.71E-04
For Julian Day 133, selecting COMIDA2 results # 3 of 9
        133        133         14         25   2.57E-04
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For Julian Day 133, selecting COMIDA2 results # 3 of 9
        134        144          5         40   5.71E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        135        144          7         40   5.71E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        136        144         11         39   2.57E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        137        144         14         37   1.14E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        138        144         15         36   1.14E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        139        145          4         18   1.86E-03
For Julian Day 145, selecting COMIDA2 results # 4 of 9
        140        145          9         28   1.08E-03
For Julian Day 145, selecting COMIDA2 results # 4 of 9
        141        145         14         27   6.28E-04
For Julian Day 145, selecting COMIDA2 results # 4 of 9
        142        145         16         26   1.71E-04
For Julian Day 145, selecting COMIDA2 results # 4 of 9
        143        145         17         25   2.57E-04
For Julian Day 145, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.89 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 159, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 164, selecting COMIDA2 results # 4 of 9
For Julian Day 164, selecting COMIDA2 results # 4 of 9
For Julian Day 168, selecting COMIDA2 results # 5 of 9
For Julian Day 176, selecting COMIDA2 results # 5 of 9
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For Julian Day 180, selecting COMIDA2 results # 5 of 9
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For Julian Day 189, selecting COMIDA2 results # 5 of 9
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For Julian Day 210, selecting COMIDA2 results # 6 of 9
For Julian Day 219, selecting COMIDA2 results # 6 of 9
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For Julian Day 236, selecting COMIDA2 results # 7 of 9
For Julian Day 242, selecting COMIDA2 results # 7 of 9
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For Julian Day   1, selecting COMIDA2 results # 1 of 9
For Julian Day  14, selecting COMIDA2 results # 1 of 9
For Julian Day  24, selecting COMIDA2 results # 1 of 9
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For Julian Day  33, selecting COMIDA2 results # 2 of 9
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For Julian Day 145, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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 WARNING!! WARNING!! WARNING!! WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 24.00 HOURS

 WARNING!! WARNING!! WARNING!! WARNING!!

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For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 159, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 164, selecting COMIDA2 results # 4 of 9
For Julian Day 164, selecting COMIDA2 results # 4 of 9
For Julian Day 168, selecting COMIDA2 results # 5 of 9
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For Julian Day 282, selecting COMIDA2 results # 8 of 9
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For Julian Day 124, selecting COMIDA2 results # 3 of 9
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For Julian Day 145, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 159, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
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For Julian Day 180, selecting COMIDA2 results # 5 of 9
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 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.
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THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

WARNING!! WARNING!! WARNING!! WARNING!!

 WARNING!! WARNING!! WARNING!! WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 24.00 HOURS

WARNING!! WARNING!! WARNING!! WARNING!!

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH
THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:


FRACTION OF THE PEOPLE

              ------
    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
               1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC"
DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN
LATER SECTIONS.

13-NOV-09  18:34:33    PAGE   1          PROB                           QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.91E+00  1.56E+00  3.71E+00
4.65E+00  6.05E+00  6.65E+00  1.30E+01  3.71E-04   43
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.74E-01  7.25E-01  1.39E+00
1.76E+00  2.12E+00  2.19E+00  2.87E+00  1.77E-05   35

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  4.28E+01  3.43E+01  8.17E+01
1.01E+02  1.29E+02  1.42E+02  2.90E+02  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.97E-06  1.65E-06  3.58E-06
4.50E-06  5.39E-06  5.61E-06  7.31E-06  1.77E-05   35
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  1 OF  8:
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    NCF

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:34:33    PAGE   2          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.38E-01  1.10E-01  2.56E-01
3.08E-01  3.99E-01  4.47E-01  6.80E-01  3.71E-04   43
 CAN FAT/TOTAL              0-16.1 km  1.0000  5.88E-02  5.36E-02  1.01E-01
1.06E-01  1.17E-01  1.22E-01  1.90E-01  5.05E-06  134
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  3.02E+00  2.58E+00  5.65E+00
6.92E+00  8.48E+00  9.23E+00  1.50E+01  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.51E-07  1.27E-07  2.57E-07
3.01E-07  3.28E-07  3.40E-07  4.86E-07  5.05E-06  134
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:34:33    PAGE   3          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.78E+00  1.36E+00  3.29E+00
3.91E+00  5.52E+00  6.16E+00  1.23E+01  3.71E-04   43
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 CAN FAT/TOTAL                0-16.1 km  1.0000  7.16E-01  6.50E-01  1.18E+00
1.36E+00  1.92E+00  2.05E+00  2.70E+00  1.77E-05   35

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  3.98E+01  3.25E+01  7.63E+01
9.70E+01  1.26E+02  1.41E+02  2.75E+02  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.82E-06  1.46E-06  3.20E-06
3.67E-06  5.02E-06  5.19E-06  6.87E-06  1.77E-05   35

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  3.98E+01  3.25E+01  7.63E+01
9.70E+01  1.26E+02  1.41E+02  2.75E+02  3.71E-04   43
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  3.94E+01  3.24E+01  7.58E+01
9.48E+01  1.25E+02  1.40E+02  2.75E+02  3.71E-04   43
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.01E-01  1.20E-01  1.19E+00
1.64E+00  2.59E+00  3.00E+00  3.82E+00  6.70E-05   47
 LONG-TERM GROUNDSHINE DOSE             1.0000  3.82E+01  3.19E+01  7.40E+01
9.30E+01  1.23E+02  1.36E+02  2.67E+02  3.71E-04   43
 LONG-TERM RESUSPENSION DOSE            1.0000  1.19E+00  1.02E+00  2.28E+00
2.92E+00  3.88E+00  4.36E+00  8.32E+00  3.71E-04   43
 WATER INGESTION DOSE                   1.0000  2.26E-02  2.01E-02  3.97E-02
5.00E-02  5.49E-02  5.71E-02  7.56E-02  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE    0.2448  2.83E-03  0.00E+00  1.12E-02
1.29E-02  1.80E-02  2.04E-02  2.69E-02  4.11E-04   36
 FARM-DEPENDENT DECONTAMINATION DOSE    0.2448  2.95E-07  0.00E+00  1.17E-06
1.43E-06  2.09E-06  2.22E-06  2.79E-06  4.11E-04   36
 INGESTION OF GRAINS                    1.0000  1.14E-02  1.16E-04  4.34E-02
5.75E-02  8.78E-02  1.01E-01  1.09E-01  7.42E-04    7
 INGESTION OF LEAF VEG                  1.0000  1.69E-02  5.50E-04  5.43E-02
7.51E-02  1.79E-01  2.25E-01  4.62E-01  6.70E-05   47
 INGESTION OF ROOT CROPS                1.0000  1.51E-02  2.94E-04  5.57E-02
7.42E-02  1.04E-01  1.13E-01  1.43E-01  7.42E-04    7
 INGESTION OF FRUITS                    1.0000  2.23E-02  9.19E-04  8.28E-02
1.08E-01  1.45E-01  1.64E-01  2.10E-01  7.42E-04    7
 INGESTION OF LEGUMES                   1.0000  1.29E-02  6.64E-04  4.74E-02
6.13E-02  9.71E-02  1.05E-01  1.22E-01  7.42E-04    7
 INGESTION OF BEEF                      1.0000  1.23E-01  3.89E-02  3.88E-01
5.35E-01  7.63E-01  8.75E-01  1.07E+00  2.06E-05  135
 INGESTION OF MILK                      1.0000  1.42E-01  3.64E-02  5.17E-01
6.95E-01  1.00E+00  1.03E+00  1.28E+00  2.06E-05  135
 INGESTION OF POULTRY                   1.0000  2.71E-02  8.28E-03  8.05E-02
1.13E-01  2.32E-01  3.03E-01  5.95E-01  6.70E-05   47
 INGESTION OF OTHER MEAT CROPS          1.0000  7.13E-03  3.71E-03  1.68E-02
2.31E-02  4.55E-02  5.63E-02  1.13E-01  6.70E-05   47

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   0.6218  8.19E+04  1.89E+03  3.07E+05
3.16E+05  3.38E+05  3.48E+05  4.98E+05  1.09E-06  114
 POP.-DEPENDENT COSTS                   0.2448  7.87E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  4.12E+05  1.53E-01    2
 FARM-DEPENDENT COSTS                   0.6218  3.15E+03  7.02E+02  1.09E+04
1.99E+04  3.28E+04  3.66E+04  8.56E+04  1.09E-06  114
 POP.-DEPENDENT DECONTAMINATION COST    0.2448  1.68E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  8.81E+04  1.53E-01    2
 FARM-DEPENDENT DECONTAMINATION COST    0.2448  1.35E+01  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  7.04E+01  1.53E-01    2
 POP.-DEPENDENT INTERDICTION COST       0.2448  6.19E+04  0.00E+00 NOT-FOUND
NOT-FOUND NOT-FOUND NOT-FOUND  3.24E+05  1.53E-01    2
 FARM-DEPENDENT INTERDICTION COST       0.6054  2.55E+03  4.72E+02  9.00E+03
1.50E+04  2.32E+04  2.54E+04  6.92E+04  9.25E-06   36
 POP.-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
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0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
 FARM-DEPENDENT CONDEMNATION COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
 EMERGENCY PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
13-NOV-09 18:34:33 PAGE 4 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($) 0-80.5 km
 MILK DISPOSAL COST 0.5655 1.12E+01 3.51E-01 3.02E+01
5.61E+01 1.54E+02 1.93E+02 3.37E+02 5.76E-04 11
 CROP DISPOSAL COST 0.5490 5.68E+02 1.05E+02 2.41E+03
3.25E+03 4.05E+03 4.45E+03 1.62E+04 2.83E-05 35
XXXX

XXXX

XXXX

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SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:34:33    PAGE   6          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.9897  1.39E+02  5.98E+01  3.76E+02
5.01E+02  6.46E+02  7.20E+02  1.15E+03  5.71E-05   90
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.25E+04  1.44E+04  4.72E+04
7.43E+04  1.10E+05  1.22E+05  1.29E+05  3.45E-03  103
 CAN FAT/TOTAL               0-16.1 km  1.0000  5.14E+03  4.93E+03  9.76E+03
1.14E+04  1.62E+04  1.88E+04  2.17E+04  5.42E-04   55
 ERL FAT/TOTAL               0-16.1 km  0.9897  1.39E+02  5.98E+01  3.76E+02
5.01E+02  6.46E+02  7.20E+02  1.15E+03  5.71E-05   90

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.9897  1.44E-01  1.21E-01  2.03E-01
2.10E-01  2.30E-01  2.39E-01  2.93E-01  1.14E-04   11
 ERL FAT/TOTAL              0.3-1.6 km  0.7781  2.63E-02  1.47E-02  5.92E-02
6.68E-02  7.34E-02  7.53E-02  8.62E-02  1.14E-04  138
 ERL FAT/TOTAL              1.6-3.2 km  0.4331  1.92E-03  0.00E+00  4.87E-03
8.03E-03  2.71E-02 NOT-FOUND  2.86E-02  7.96E-03   90

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  2.89E+05  1.76E+05  6.74E+05
1.01E+06  1.39E+06  1.59E+06  1.71E+06  3.45E-03  103

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.9897  8.20E-03  3.53E-03  2.32E-02
2.99E-02  3.65E-02  3.97E-02  6.16E-02  5.71E-05   90
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.32E-02  1.15E-02  2.40E-02
2.89E-02  4.12E-02  4.79E-02  5.55E-02  5.42E-04   55
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:34:33    PAGE   7          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
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HEALTH EFFECTS CASES
 CAN FAT/TOTAL                0-80.5 km  1.0000  1.32E+04  6.54E+03  3.26E+04
3.86E+04  5.19E+04  5.43E+04  7.08E+04  1.14E-04  100
 CAN FAT/TOTAL                0-16.1 km  1.0000  4.01E+02  3.56E+02  5.71E+02
6.55E+02  8.30E+02  9.11E+02  1.20E+03  1.14E-04  127

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  2.97E+05  1.50E+05  7.61E+05
9.58E+05  1.13E+06  1.19E+06  1.62E+06  1.14E-04  100

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  0.9549  4.11E-04  3.48E-04  7.34E-04
9.61E-04  1.14E-03  1.21E-03  1.67E-03  1.14E-04  127

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  2.97E+05  1.50E+05  7.61E+05
9.58E+05  1.13E+06  1.19E+06  1.62E+06  1.14E-04  100
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  2.35E+05  1.10E+05  5.92E+05
7.05E+05  7.78E+05  8.12E+05  9.35E+05  5.13E-04   86
 TOTAL INGESTION PATHWAYS DOSE           1.0000  3.57E+03  3.21E+03  6.24E+03
7.23E+03  8.88E+03  9.70E+03  1.12E+04  4.57E-04   55
 LONG-TERM GROUNDSHINE DOSE              1.0000  2.26E+05  1.06E+05  5.72E+05
6.83E+05  7.50E+05  7.75E+05  9.22E+05  1.14E-04  100
 LONG-TERM RESUSPENSION DOSE             1.0000  9.49E+03  4.25E+03  2.21E+04
2.41E+04  2.94E+04  3.06E+04  3.44E+04  2.37E-04   32
 WATER INGESTION DOSE                    1.0000  3.34E+03  3.10E+03  5.82E+03
6.75E+03  8.69E+03  9.64E+03  1.11E+04  4.57E-04   55
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  5.79E+04  2.81E+04  1.57E+05
2.31E+05  3.30E+05  3.52E+05  6.83E+05  1.14E-04  100
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  3.71E+01  1.43E+01  1.05E+02
1.24E+02  1.84E+02  2.05E+02  2.57E+02  2.85E-04  100
 INGESTION OF GRAINS                     1.0000  4.04E+00  1.68E+00  1.02E+01
1.32E+01  2.10E+01  2.28E+01  3.23E+01  4.28E-04   24
 INGESTION OF LEAF VEG                   1.0000  2.88E+01  1.23E+01  7.73E+01
9.44E+01  1.08E+02  1.12E+02  1.32E+02  2.85E-04  100
 INGESTION OF ROOT CROPS                 1.0000  1.73E+01  7.25E+00  4.44E+01
5.24E+01  6.30E+01  6.81E+01  8.00E+01  2.85E-04  100
 INGESTION OF FRUITS                     1.0000  1.64E+01  7.51E+00  4.07E+01
5.03E+01  5.63E+01  5.90E+01  7.06E+01  4.28E-04   24
 INGESTION OF LEGUMES                    1.0000  3.34E+01  1.44E+01  8.95E+01
1.04E+02  1.18E+02  1.25E+02  1.59E+02  2.85E-04  100
 INGESTION OF BEEF                       1.0000  5.65E+01  1.55E+01  1.71E+02
2.33E+02  5.06E+02  5.29E+02  6.98E+02  5.71E-05   99
 INGESTION OF MILK                       1.0000  5.02E+01  1.82E+01  1.32E+02
1.91E+02  3.32E+02  3.62E+02  5.11E+02  3.71E-04   89
 INGESTION OF POULTRY                    1.0000  1.35E+01  4.40E+00  4.33E+01
5.50E+01  8.52E+01  1.05E+02  1.24E+02  1.40E-03   55
 INGESTION OF OTHER MEAT CROPS           1.0000  5.97E+00  1.80E+00  2.06E+01
2.50E+01  3.15E+01  3.26E+01  4.05E+01  6.57E-05   73

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  2.04E+11  1.09E+11  5.25E+11
6.25E+11  7.53E+11  7.87E+11  1.40E+12  1.14E-04  100
 POP.-DEPENDENT COSTS                    1.0000  2.04E+11  1.09E+11  5.25E+11
6.25E+11  7.53E+11  7.87E+11  1.40E+12  1.14E-04  100
 FARM-DEPENDENT COSTS                    1.0000  4.05E+08  2.18E+08  1.02E+09
1.07E+09  1.21E+09  1.28E+09  1.55E+09  3.71E-04   39
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  4.47E+10  1.88E+10  1.07E+11
1.21E+11  1.61E+11  1.82E+11  2.00E+11  2.94E-03  127
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  4.09E+07  1.75E+07  1.01E+08
1.09E+08  1.31E+08  1.41E+08  1.60E+08  1.60E-03  127
 POP.-DEPENDENT INTERDICTION COST        1.0000  1.45E+11  7.09E+10  3.66E+11
4.46E+11  6.50E+11  7.22E+11  1.21E+12  1.14E-04  100
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 FARM-DEPENDENT INTERDICTION COST       1.0000  3.09E+08  1.32E+08  8.01E+08
9.43E+08  1.09E+09  1.14E+09  1.34E+09  3.71E-04   39
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.38E+10  7.43E+09  4.08E+10
5.08E+10  5.48E+10  5.67E+10  7.05E+10  5.88E-05  136
 FARM-DEPENDENT CONDEMNATION COST       1.0000  1.38E+07  7.23E+06  5.00E+07
5.13E+07  5.45E+07  5.59E+07  7.06E+07  1.08E-05  136
 EMERGENCY PHASE COST                   1.0000  1.69E+08  6.73E+07  3.69E+08
5.82E+08  1.20E+09  1.39E+09  2.57E+09  1.14E-04  100
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:34:33    PAGE   8          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.09E+06  2.93E+05  3.05E+06
3.74E+06  5.33E+06  5.72E+06  6.95E+06  7.42E-04  111
 CROP DISPOSAL COST                     1.0000  3.98E+07  3.63E+07  6.40E+07
7.35E+07  1.00E+08  1.03E+08  1.19E+08  1.14E-04   39
XXXX
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XXXX

XXXX

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  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:34:33    PAGE  10          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.7383  5.07E+00  1.31E+00  1.79E+01
2.15E+01  2.63E+01  2.87E+01  3.19E+01  5.71E-05   90
 CAN FAT/TOTAL               0-80.5 km  1.0000  4.17E+03  3.06E+03  9.12E+03
1.16E+04  1.83E+04 NOT-FOUND  2.70E+04  6.16E-03   78
 CAN FAT/TOTAL               0-16.1 km  1.0000  9.96E+02  9.36E+02  1.66E+03
2.04E+03  2.64E+03  2.94E+03  3.54E+03  1.91E-05   98
 ERL FAT/TOTAL               0-16.1 km  0.7383  5.07E+00  1.31E+00  1.79E+01
2.15E+01  2.63E+01  2.87E+01  3.19E+01  5.71E-05   90

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.7383  2.44E-02  6.96E-03  7.23E-02
7.51E-02  8.20E-02  8.52E-02  9.59E-02  5.71E-04  134
 ERL FAT/TOTAL              0.3-1.6 km  0.0544  1.83E-05  0.00E+00  0.00E+00
7.19E-05  4.98E-04 NOT-FOUND  1.42E-03  7.96E-03   90
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.78E+04  3.67E+04  1.35E+05
1.94E+05  2.81E+05  3.07E+05  3.87E+05  1.14E-04  100

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.7383  3.04E-04  7.00E-05  1.02E-03
1.08E-03  1.24E-03  1.31E-03  1.91E-03  5.71E-05   90
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.55E-03  2.36E-03  4.45E-03
5.21E-03  6.42E-03  7.01E-03  9.07E-03  1.91E-05   98
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:34:33    PAGE  11          PROB                            QUANTILES
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                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  5.77E+03  2.87E+03  1.37E+04
1.79E+04  2.47E+04  2.76E+04  2.93E+04  3.45E-03  103
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.62E+02  2.44E+02  3.90E+02
4.49E+02  5.72E+02  6.24E+02  8.97E+02  2.27E-06   10

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.28E+05  6.52E+04  3.29E+05
3.96E+05  5.56E+05  6.15E+05  6.48E+05  3.45E-03  103

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.79E-04  3.41E-04  5.69E-04
6.30E-04  7.96E-04  8.77E-04  1.25E-03  2.27E-06   10

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.28E+05  6.52E+04  3.29E+05
3.96E+05  5.56E+05  6.15E+05  6.48E+05  3.45E-03  103
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.18E+05  5.59E+04  3.06E+05
3.70E+05  5.36E+05  5.89E+05  6.20E+05  3.45E-03  103
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.13E+02  3.44E+02  7.29E+02
8.28E+02  1.11E+03  1.25E+03  1.42E+03  2.48E-03  103
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.09E+05  5.13E+04  3.03E+05
3.47E+05  4.77E+05  5.39E+05  5.73E+05  3.45E-03  103
 LONG-TERM RESUSPENSION DOSE            1.0000  8.85E+03  3.98E+03  2.28E+04
3.02E+04  3.92E+04  4.40E+04  4.67E+04  3.45E-03  103
 WATER INGESTION DOSE                   1.0000  2.40E+02  2.19E+02  4.16E+02
5.06E+02  6.25E+02  6.84E+02  8.65E+02  5.71E-05   67
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  9.07E+03  5.56E+03  2.14E+04
2.75E+04  4.70E+04  5.20E+04  8.83E+04  1.14E-04  100
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  6.39E+00  2.25E+00  2.06E+01
2.65E+01  3.40E+01  3.64E+01  4.39E+01  7.42E-04    7
 INGESTION OF GRAINS                    1.0000  4.16E+00  8.44E-01  1.29E+01
1.80E+01  3.05E+01  3.19E+01  3.59E+01  7.99E-04   43
 INGESTION OF LEAF VEG                  1.0000  9.23E+00  3.80E+00  2.45E+01
3.58E+01  7.32E+01  8.24E+01  1.36E+02  2.22E-05   54
 INGESTION OF ROOT CROPS                1.0000  6.35E+00  2.28E+00  2.13E+01
2.67E+01  3.53E+01  3.85E+01  4.88E+01  7.99E-04   43
 INGESTION OF FRUITS                    1.0000  9.63E+00  3.77E+00  3.14E+01
3.89E+01  5.42E+01  5.81E+01  7.17E+01  7.99E-04   43
 INGESTION OF LEGUMES                   1.0000  7.95E+00  3.64E+00  2.14E+01
2.70E+01  3.49E+01  3.78E+01  4.68E+01  7.99E-04   43
 INGESTION OF BEEF                      1.0000  6.90E+01  3.19E+01  1.65E+02
2.20E+02  4.97E+02  5.58E+02  6.25E+02  2.48E-03  103
 INGESTION OF MILK                      1.0000  4.51E+01  1.70E+01  1.11E+02
1.51E+02  4.14E+02 NOT-FOUND  6.01E+02  5.37E-03  103
 INGESTION OF POULTRY                   1.0000  1.54E+01  7.19E+00  3.85E+01
5.05E+01  6.69E+01  7.40E+01  1.19E+02  2.22E-05   54
 INGESTION OF OTHER MEAT CROPS          1.0000  5.74E+00  2.44E+00  1.57E+01
2.25E+01  3.25E+01  3.50E+01  3.77E+01  2.48E-03  103

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  4.68E+10  2.17E+10  1.24E+11
2.05E+11  2.30E+11  2.42E+11  3.64E+11  1.14E-04  100
 POP.-DEPENDENT COSTS                   1.0000  4.67E+10  2.16E+10  1.24E+11
2.05E+11  2.30E+11  2.42E+11  3.64E+11  1.14E-04  100
 FARM-DEPENDENT COSTS                   1.0000  1.66E+08  6.61E+07  5.39E+08
7.11E+08  8.81E+08  9.66E+08  1.16E+09  1.60E-03  127
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.13E+10  4.93E+09  2.89E+10
4.64E+10  7.20E+10  7.58E+10  1.18E+11  1.14E-04  100
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.22E+07  5.02E+06  3.25E+07
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3.64E+07  4.74E+07  5.09E+07  6.36E+07  6.57E-05  139
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.45E+10  1.46E+10  8.92E+10
1.22E+11  2.01E+11  2.07E+11  2.46E+11  1.14E-04  100
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.36E+08  4.15E+07  4.56E+08
6.44E+08  8.33E+08  9.07E+08  1.05E+09  1.60E-03  127
 POP.-DEPENDENT CONDEMNATION COST       0.9800  7.95E+08  6.10E+08  1.61E+09
2.11E+09  3.18E+09  3.44E+09  5.45E+09  1.71E-04   44
 FARM-DEPENDENT CONDEMNATION COST       0.9800  2.69E+05  2.21E+05  5.86E+05
7.97E+05  1.19E+06  1.36E+06  2.06E+06  4.00E-04   67
 EMERGENCY PHASE COST                   1.0000  1.60E+07  1.06E+07  4.75E+07
6.31E+07  7.93E+07 NOT-FOUND  8.06E+07  8.36E-03   95
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:34:33    PAGE  12          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  5.97E+05  3.82E+04  2.18E+06
2.82E+06  4.09E+06  4.74E+06  5.60E+06  1.38E-04   32
 CROP DISPOSAL COST                     1.0000  1.70E+07  9.24E+06  4.01E+07
5.10E+07  6.58E+07  7.31E+07  8.95E+07  1.23E-03  127
XXXX
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XXXX

XXXX

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1.10E-03  1.21E-03  1.26E-03  2.01E-03  2.27E-06   60
 DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:34:33    PAGE  14          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0828  3.50E-03  0.00E+00  0.00E+00
1.57E-02  7.29E-02  1.46E-01  1.92E-01  4.42E-03   53
 CAN FAT/TOTAL              0-80.5 km  1.0000  5.57E+02  4.30E+02  1.11E+03
1.40E+03  2.12E+03  2.29E+03  2.80E+03  8.31E-04   25
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.80E+02  1.59E+02  3.17E+02
3.54E+02  4.58E+02  5.01E+02  5.45E+02  2.27E-06   60
 ERL FAT/TOTAL              0-16.1 km  0.0828  3.50E-03  0.00E+00  0.00E+00
1.57E-02  7.29E-02  1.46E-01  1.92E-01  4.42E-03   53

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0828  1.68E-05  0.00E+00  0.00E+00
1.05E-04  2.83E-04 NOT-FOUND  7.06E-04  6.68E-03   53
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  9.56E+03  7.20E+03  1.99E+04
2.51E+04  3.50E+04  3.86E+04  5.16E+04  8.31E-04   25

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0828  2.10E-07  0.00E+00  0.00E+00
1.39E-06  4.30E-06  9.04E-06  1.15E-05  4.42E-03   53
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.60E-04  4.18E-04  8.37E-04
9.94E-04  1.05E-03  1.08E-03  1.40E-03  2.27E-06   60
 DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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13-NOV-09  18:34:33    PAGE  15          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.65E+03  1.23E+03  6.70E+03
1.02E+04  1.28E+04  1.40E+04  1.80E+04  8.31E-04   25
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.42E+02  1.20E+02  2.08E+02
2.25E+02  2.72E+02  2.95E+02  3.61E+02  2.27E-06   10

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.88E+04  2.74E+04  1.56E+05
2.32E+05  3.27E+05  3.45E+05  3.99E+05  8.31E-04   25

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.03E-04  3.03E-04  4.64E-04
5.11E-04  5.56E-04  5.76E-04  7.51E-04  2.27E-06   10

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  5.88E+04  2.74E+04  1.56E+05
2.32E+05  3.27E+05  3.45E+05  3.99E+05  8.31E-04   25
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  5.79E+04  2.64E+04  1.56E+05
2.32E+05  3.26E+05  3.45E+05  3.97E+05  8.31E-04   25
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.65E+02  1.09E+02  3.52E+02
4.39E+02  5.81E+02  6.34E+02  7.66E+02  6.56E-04   39
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.53E+04  2.55E+04  1.45E+05
2.19E+05  3.19E+05  3.35E+05  3.79E+05  8.31E-04   25
 LONG-TERM RESUSPENSION DOSE            1.0000  2.56E+03  1.15E+03  6.53E+03
1.02E+04  1.27E+04  1.39E+04  1.78E+04  8.31E-04   25
 WATER INGESTION DOSE                   1.0000  5.14E+01  4.69E+01  9.30E+01
1.04E+02  1.21E+02  1.29E+02  1.93E+02  5.71E-05   67
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.99E+02  6.54E+02  1.55E+03
2.01E+03  2.40E+03  2.59E+03  5.93E+03  1.14E-04  100
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  5.22E-01  2.37E-01  1.29E+00
2.20E+00  3.63E+00  4.30E+00  5.14E+00  1.40E-03   55
 INGESTION OF GRAINS                    1.0000  3.65E+00  2.61E-01  1.30E+01
1.97E+01  2.50E+01  2.75E+01  3.74E+01  6.56E-04   39
 INGESTION OF LEAF VEG                  1.0000  5.30E+00  1.12E+00  2.02E+01
2.42E+01  3.26E+01  3.51E+01  5.60E+01  4.96E-05   54
 INGESTION OF ROOT CROPS                1.0000  4.96E+00  6.93E-01  1.85E+01
2.47E+01  3.44E+01  3.76E+01  4.90E+01  6.56E-04   39
 INGESTION OF FRUITS                    1.0000  7.52E+00  1.44E+00  2.81E+01
3.55E+01  5.36E+01  6.07E+01  7.21E+01  6.56E-04   39
 INGESTION OF LEGUMES                   1.0000  4.61E+00  1.17E+00  1.60E+01
2.14E+01  2.77E+01  3.09E+01  4.19E+01  6.56E-04   39
 INGESTION OF BEEF                      1.0000  4.53E+01  1.89E+01  1.20E+02
1.59E+02  2.24E+02  2.41E+02  3.05E+02  6.56E-04   39
 INGESTION OF MILK                      1.0000  2.85E+01  1.19E+01  7.39E+01
1.02E+02  1.26E+02  1.38E+02  2.00E+02  2.85E-04  100
 INGESTION OF POULTRY                   1.0000  1.03E+01  4.10E+00  2.92E+01
3.42E+01  4.74E+01  5.29E+01  6.88E+01  6.56E-04   39
 INGESTION OF OTHER MEAT CROPS          1.0000  3.37E+00  1.54E+00  9.03E+00
1.05E+01  1.26E+01  1.36E+01  1.88E+01  2.85E-04  100

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  6.08E+09  4.01E+09  1.31E+10
1.97E+10  3.31E+10  3.53E+10  1.23E+11  8.48E-06  138
 POP.-DEPENDENT COSTS                   1.0000  6.01E+09  3.91E+09  1.30E+10
1.96E+10  3.31E+10  3.53E+10  1.23E+11  8.48E-06  138
 FARM-DEPENDENT COSTS                   1.0000  6.31E+07  1.56E+07  2.05E+08
3.23E+08  4.45E+08  5.04E+08  7.18E+08  6.57E-05  139
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 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.40E+09  9.22E+08  3.51E+09
4.88E+09  7.55E+09  7.94E+09  2.62E+10  8.48E-06  138
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.17E+06  6.15E+05  7.13E+06
9.27E+06  1.26E+07  1.42E+07  1.91E+07  8.28E-04    7
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.52E+09  2.97E+09  1.08E+10
1.52E+10  2.50E+10  2.89E+10  9.65E+10  8.48E-06  138
 FARM-DEPENDENT INTERDICTION COST       1.0000  5.32E+07  9.08E+06  2.01E+08
3.12E+08  4.20E+08  4.77E+08  6.61E+08  6.57E-05  139
 POP.-DEPENDENT CONDEMNATION COST       0.9406  9.11E+07  9.26E+07  2.00E+08
2.97E+08  3.62E+08  3.93E+08  6.84E+08  4.49E-05    9
 FARM-DEPENDENT CONDEMNATION COST       0.9159  2.40E+04  7.65E+03  7.38E+04
7.75E+04  8.69E+04  9.13E+04  2.90E+05  2.72E-05   36
 EMERGENCY PHASE COST                   1.0000  1.78E+06  1.31E+06  3.86E+06
5.27E+06  8.15E+06  9.49E+06  1.22E+07  1.14E-04   68
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:34:33    PAGE  16          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  3.46E+05  1.81E+04  1.26E+06
1.94E+06  3.07E+06  3.52E+06  5.51E+06  6.70E-05  139
 CROP DISPOSAL COST                     1.0000  7.33E+06  2.70E+06  2.18E+07
2.93E+07  4.17E+07  4.83E+07  5.77E+07  2.54E-03  127
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POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.45E-03  1.22E-03  2.28E-03
2.61E-03  3.11E-03  3.19E-03  3.73E-03  9.10E-05  122
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:34:33    PAGE  18          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.2460  7.57E-02  0.00E+00  1.81E-01
4.26E-01  1.12E+00  1.30E+00  3.83E+00  3.23E-04   36
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.49E+03  1.12E+03  3.12E+03
3.85E+03  5.59E+03  6.18E+03  8.97E+03  3.71E-04   43
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.03E+02  3.49E+02  6.58E+02
7.86E+02  1.02E+03  1.04E+03  1.16E+03  9.10E-05  122
 ERL FAT/TOTAL              0-16.1 km  0.2460  7.57E-02  0.00E+00  1.81E-01
4.26E-01  1.12E+00  1.30E+00  3.83E+00  3.23E-04   36

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.2460  3.60E-04  0.00E+00  1.00E-03
2.17E-03  5.48E-03  5.92E-03  1.41E-02  8.56E-04   36
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  3.29E+04  2.36E+04  7.19E+04
9.32E+04  1.23E+05  1.36E+05  2.11E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.2460  4.54E-06  0.00E+00  1.30E-05
2.64E-05  7.41E-05  8.02E-05  2.29E-04  3.23E-04   36
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.03E-03  1.00E-03  1.63E-03
2.00E-03  2.21E-03  2.31E-03  2.96E-03  9.10E-05  122
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  5 OF  8:
    LATE HIGH
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RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:34:33    PAGE  19          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.45E+03  3.04E+03  1.67E+04
2.09E+04  2.53E+04  2.74E+04  3.18E+04  1.17E-03   45
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.32E+02  2.17E+02  3.10E+02
3.21E+02  3.47E+02  3.59E+02  5.15E+02  5.05E-06   15

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.44E+05  7.02E+04  3.65E+05
4.75E+05  5.73E+05  6.12E+05  7.13E+05  1.17E-03   45

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.21E-04  3.84E-04  6.25E-04
7.04E-04  7.81E-04  8.17E-04  9.43E-04  5.42E-04   45

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.44E+05  7.02E+04  3.65E+05
4.75E+05  5.73E+05  6.12E+05  7.13E+05  1.17E-03   45
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.40E+05  6.54E+04  3.60E+05
4.68E+05  5.72E+05  6.11E+05  7.05E+05  1.17E-03   45
 TOTAL INGESTION PATHWAYS DOSE          1.0000  3.93E+02  3.39E+02  6.96E+02
7.35E+02  8.26E+02  8.69E+02  1.12E+03  1.62E-04   36
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.37E+05  6.28E+04  3.52E+05
4.47E+05  5.64E+05  6.01E+05  6.89E+05  1.17E-03   45
 LONG-TERM RESUSPENSION DOSE            1.0000  3.15E+03  1.28E+03  8.64E+03
1.02E+04  1.12E+04  1.16E+04  1.66E+04  8.48E-06   21
 WATER INGESTION DOSE                   1.0000  3.20E+02  2.86E+02  5.65E+02
7.01E+02  7.73E+02  8.07E+02  1.07E+03  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.09E+03  2.83E+03  9.25E+03
1.13E+04  1.65E+04  1.94E+04  5.21E+04  3.71E-04   43
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.23E+00  1.34E+00  9.10E+00
1.17E+01  1.85E+01  2.07E+01  2.36E+01  8.28E-04    7
 INGESTION OF GRAINS                    1.0000  1.99E+00  5.77E-01  7.41E+00
9.45E+00  1.08E+01  1.12E+01  1.54E+01  9.02E-06   18
 INGESTION OF LEAF VEG                  1.0000  3.60E+00  1.53E+00  1.06E+01
1.22E+01  1.71E+01  1.98E+01  2.23E+01  2.85E-05   52
 INGESTION OF ROOT CROPS                1.0000  2.95E+00  1.08E+00  1.01E+01
1.08E+01  1.25E+01  1.33E+01  2.04E+01  9.02E-06   18
 INGESTION OF FRUITS                    1.0000  5.74E+00  2.49E+00  1.52E+01
2.05E+01  2.41E+01  2.58E+01  3.18E+01  9.99E-04  129
 INGESTION OF LEGUMES                   1.0000  3.49E+00  1.61E+00  1.01E+01
1.11E+01  1.39E+01  1.52E+01  1.90E+01  9.99E-04  129
 INGESTION OF BEEF                      1.0000  2.58E+01  9.58E+00  7.07E+01
1.04E+02  2.04E+02  2.18E+02  2.77E+02  3.71E-04   97
 INGESTION OF MILK                      1.0000  1.84E+01  6.48E+00  5.22E+01
7.10E+01  1.05E+02  1.18E+02  1.85E+02  3.71E-04   97
 INGESTION OF POULTRY                   1.0000  6.41E+00  3.46E+00  1.47E+01
1.92E+01  2.37E+01  2.57E+01  2.88E+01  1.80E-03   45
 INGESTION OF OTHER MEAT CROPS          1.0000  4.73E+00  1.64E+00  1.36E+01
1.90E+01  3.07E+01  3.28E+01  4.20E+01  3.71E-04   97

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  3.92E+10  1.76E+10  9.40E+10
1.76E+11  2.27E+11  2.41E+11  3.75E+11  3.71E-04   43
 POP.-DEPENDENT COSTS                   1.0000  3.90E+10  1.73E+10  9.40E+10
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1.76E+11  2.27E+11  2.41E+11  3.75E+11  3.71E-04   43
 FARM-DEPENDENT COSTS                    1.0000  2.45E+08  1.35E+08  7.14E+08
8.20E+08  1.09E+09  1.21E+09  1.39E+09  1.94E-03  129
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  8.91E+09  3.64E+09  2.28E+10
3.29E+10  5.30E+10  5.65E+10  1.21E+11  3.71E-04   43
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.11E+07  4.45E+06  3.11E+07
3.57E+07  4.92E+07  5.69E+07  6.82E+07  2.11E-03   43
 POP.-DEPENDENT INTERDICTION COST        1.0000  2.89E+10  1.07E+10  6.78E+10
1.07E+11  1.44E+11  1.64E+11  2.54E+11  3.71E-04   43
 FARM-DEPENDENT INTERDICTION COST        1.0000  2.01E+08  7.61E+07  6.08E+08
7.56E+08  1.01E+09  1.11E+09  1.26E+09  1.94E-03  129
 POP.-DEPENDENT CONDEMNATION COST        1.0000  1.14E+09  9.38E+08  2.32E+09
3.01E+09  4.19E+09  4.82E+09  5.78E+09  8.85E-06   10
 FARM-DEPENDENT CONDEMNATION COST        1.0000  4.19E+05  3.14E+05  9.42E+05
1.16E+06  1.74E+06 NOT-FOUND  1.90E+06  7.18E-03    9
 EMERGENCY PHASE COST                    1.0000  6.85E+06  6.59E+06  1.13E+07
1.30E+07  1.78E+07  2.03E+07  6.99E+07  2.48E-04  131
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:34:33    PAGE  20          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  9.62E+05  1.70E+05  2.71E+06
3.61E+06  5.55E+06  6.06E+06  7.05E+06  2.32E-04   22
 CROP DISPOSAL COST                      1.0000  3.19E+07  2.88E+07  5.92E+07
6.77E+07  8.31E+07  9.02E+07  1.19E+08  5.42E-04  129
XXXX
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XXXX

XXXX

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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  6.46E+04  3.54E+04  1.59E+05
2.14E+05  3.05E+05  3.33E+05  4.63E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  6.93E-04  6.33E-04  1.02E-03
1.05E-03  1.13E-03  1.16E-03  1.66E-03  1.52E-06  132
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:34:33    PAGE  22          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  3.88E+02  3.20E+02  7.57E+02
9.37E+02  1.21E+03  1.34E+03  1.92E+03  3.71E-04   43
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.43E+02  1.25E+02  2.46E+02
2.92E+02  3.25E+02  3.37E+02  4.12E+02  1.14E-04   68
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  7.24E+03  5.83E+03  1.40E+04
1.85E+04  2.45E+04  2.71E+04  4.06E+04  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.67E-04  3.30E-04  6.32E-04
7.20E-04  8.40E-04  8.98E-04  1.06E-03  1.14E-04   68
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:34:33    PAGE  23          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.57E+03  1.29E+03  6.90E+03
9.37E+03  1.18E+04  1.27E+04  1.91E+04  1.38E-04  139
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.50E+02  1.24E+02  2.13E+02
2.33E+02  2.86E+02  3.02E+02  3.42E+02  2.27E-06   10

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.74E+04  2.81E+04  1.48E+05
2.05E+05  2.58E+05  2.84E+05  4.25E+05  1.38E-04  139

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.26E-04  3.09E-04  4.90E-04
5.22E-04  5.85E-04  6.14E-04  7.70E-04  2.27E-06   29

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  5.74E+04  2.81E+04  1.48E+05
2.05E+05  2.58E+05  2.84E+05  4.25E+05  1.38E-04  139
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  5.66E+04  2.69E+04  1.45E+05
2.04E+05  2.57E+05  2.84E+05  4.23E+05  1.38E-04  139
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.52E+02  1.10E+02  3.04E+02
3.42E+02  4.53E+02  5.02E+02  5.25E+02  7.42E-04  101
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.44E+04  2.57E+04  1.34E+05
1.90E+05  2.53E+05  2.82E+05  4.06E+05  1.38E-04  139
 LONG-TERM RESUSPENSION DOSE            1.0000  2.23E+03  1.05E+03  6.30E+03
8.39E+03  1.11E+04  1.19E+04  1.67E+04  1.38E-04  139
 WATER INGESTION DOSE                   1.0000  6.04E+01  5.26E+01  1.02E+02
1.09E+02  1.29E+02  1.39E+02  2.02E+02  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  6.48E+02  5.77E+02  1.16E+03
1.40E+03  2.06E+03  2.25E+03  5.00E+03  3.71E-04   43
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.40E-01  2.52E-01  1.00E+00
1.51E+00  2.79E+00  3.21E+00  4.33E+00  7.42E-04    7
 INGESTION OF GRAINS                    1.0000  2.79E+00  2.39E-01  1.06E+01
1.33E+01  2.04E+01  2.10E+01  2.63E+01  4.96E-05   27
 INGESTION OF LEAF VEG                  1.0000  4.49E+00  9.49E-01  1.35E+01
2.10E+01  3.67E+01  4.15E+01  6.37E+01  2.85E-04   53
 INGESTION OF ROOT CROPS                1.0000  3.80E+00  5.65E-01  1.29E+01
1.88E+01  2.59E+01  2.93E+01  3.45E+01  4.96E-05   27
 INGESTION OF FRUITS                    1.0000  5.86E+00  1.37E+00  2.17E+01
2.84E+01  3.35E+01  3.53E+01  5.09E+01  4.96E-05   27
 INGESTION OF LEGUMES                   1.0000  3.55E+00  1.05E+00  1.18E+01
1.57E+01  2.13E+01  2.22E+01  2.96E+01  4.96E-05   27
 INGESTION OF BEEF                      1.0000  3.53E+01  1.67E+01  8.77E+01
1.16E+02  2.02E+02  2.12E+02  2.52E+02  4.00E-04  101
 INGESTION OF MILK                      1.0000  2.28E+01  9.43E+00  5.62E+01
7.02E+01  1.14E+02  1.32E+02  1.97E+02  7.42E-04  101
 INGESTION OF POULTRY                   1.0000  8.53E+00  3.78E+00  2.19E+01
2.96E+01  5.18E+01  5.55E+01  7.64E+01  2.85E-04   53
 INGESTION OF OTHER MEAT CROPS          1.0000  4.03E+00  1.64E+00  1.11E+01
1.41E+01  2.10E+01  2.23E+01  2.78E+01  4.00E-04  101

ECONOMIC COST MEASURES ($)     0-80.5 km
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 TOTAL ECONOMIC COSTS                    1.0000  5.10E+09  3.55E+09  9.14E+09
1.29E+10  3.17E+10  3.49E+10  1.10E+11  3.71E-04   43
 POP.-DEPENDENT COSTS                    1.0000  5.01E+09  3.39E+09  9.10E+09
1.28E+10  3.17E+10  3.49E+10  1.10E+11  3.71E-04   43
 FARM-DEPENDENT COSTS                    1.0000  8.66E+07  2.83E+07  2.81E+08
3.55E+08  6.70E+08  7.57E+08  9.21E+08  1.03E-03  129
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.13E+09  7.68E+08  2.00E+09
3.52E+09  7.28E+09  7.78E+09  2.36E+10  3.71E-04   43
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.89E+06  6.55E+05  5.50E+06
7.47E+06  1.23E+07  1.47E+07  1.82E+07  2.11E-03   43
 POP.-DEPENDENT INTERDICTION COST        1.0000  3.73E+09  2.57E+09  6.55E+09
1.13E+10  2.25E+10  2.75E+10  8.65E+10  3.71E-04   43
 FARM-DEPENDENT INTERDICTION COST        1.0000  7.30E+07  1.36E+07  2.52E+08
3.36E+08  6.02E+08  7.31E+08  8.64E+08  1.03E-03  129
 POP.-DEPENDENT CONDEMNATION COST        1.0000  1.44E+08  1.10E+08  3.38E+08
3.97E+08  5.40E+08  5.90E+08  1.05E+09  1.20E-04   11
 FARM-DEPENDENT CONDEMNATION COST        0.9756  3.39E+04  9.41E+03  7.72E+04
8.19E+04  9.40E+04  9.97E+04  2.90E+05  1.32E-04    9
 EMERGENCY PHASE COST                    1.0000  1.41E+06  1.13E+06  2.79E+06
3.39E+06  5.02E+06  5.26E+06  6.92E+06  8.56E-05   99
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:34:33    PAGE  24          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  5.20E+05  3.13E+04  1.64E+06
2.64E+06  4.90E+06  5.47E+06  6.55E+06  1.40E-03  129
 CROP DISPOSAL COST                      1.0000  1.11E+07  4.29E+06  3.11E+07
3.87E+07  5.44E+07  5.87E+07  8.17E+07  2.33E-06   22
XXXX
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 CAN FAT/TOTAL                0-16.1 km  1.0000  1.06E+02  1.01E+02  1.50E+02
1.78E+02  2.12E+02  2.19E+02  2.44E+02  5.71E-04   94

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.48E+04  1.02E+04  3.33E+04
4.65E+04  6.12E+04  6.73E+04  1.42E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.62E-04  2.39E-04  3.85E-04
4.44E-04  5.25E-04  5.42E-04  5.99E-04  5.71E-04   94
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:34:33    PAGE  26          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-80.5 km  1.0000  6.93E+01  5.88E+01  1.27E+02
1.57E+02  2.30E+02  2.59E+02  3.63E+02  3.71E-04   43
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.70E+01  2.41E+01  4.64E+01
5.85E+01  7.15E+01  7.24E+01  8.40E+01  2.27E-06  133
 ERL FAT/TOTAL                0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.48E+03  1.14E+03  2.87E+03
3.26E+03  4.13E+03  4.57E+03  8.07E+03  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-16.1 km  1.0000  6.91E-05  6.35E-05  1.14E-04
1.33E-04  1.88E-04  2.01E-04  2.15E-04  2.27E-06  133
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES
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"CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 7 OF 8:
LATE LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

13-NOV-09 18:34:33 PAGE 27

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                                PROB                                QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL                0-80.5 km  1.0000  5.93E+02  3.70E+02  1.37E+03
1.87E+03  2.53E+03  2.82E+03  5.95E+03  3.71E-04   43
 CAN FAT/TOTAL                0-16.1 km  1.0000  7.93E+01  7.27E+01  1.06E+02
1.11E+02  1.23E+02  1.29E+02  1.86E+02  1.90E-05   47

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.33E+04  8.50E+03  3.19E+04
3.96E+04  5.65E+04  6.24E+04  1.33E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.93E-04  1.74E-04  3.01E-04
3.11E-04  3.36E-04  3.47E-04  4.54E-04  1.90E-05   47

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  1.33E+04  8.50E+03  3.19E+04
3.96E+04  5.65E+04  6.24E+04  1.33E+05  3.71E-04   43
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  1.31E+04  8.37E+03  3.16E+04
3.94E+04  5.65E+04  6.24E+04  1.33E+05  3.71E-04   43
 TOTAL INGESTION PATHWAYS DOSE           1.0000  7.80E+01  3.35E+01  2.28E+02
3.06E+02  4.96E+02  5.40E+02  6.48E+02  1.03E-03  129
 LONG-TERM GROUNDSHINE DOSE              1.0000  1.26E+04  8.13E+03  3.03E+04
3.64E+04  5.38E+04  6.08E+04  1.28E+05  3.71E-04   43
 LONG-TERM RESUSPENSION DOSE             1.0000  5.74E+02  3.57E+02  1.36E+03
1.87E+03  2.44E+03  2.69E+03  5.87E+03  3.71E-04   43
 WATER INGESTION DOSE                    1.0000  1.23E+01  1.04E+01  2.08E+01
2.50E+01  3.16E+01  3.29E+01  4.05E+01  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  7.12E+01  6.22E+01  1.36E+02
1.75E+02  2.09E+02  2.14E+02  2.88E+02  1.09E-06   11
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  3.16E-02  2.23E-02  7.07E-02
9.06E-02  1.60E-01  2.01E-01  2.66E-01  8.56E-05   78
 INGESTION OF GRAINS                     1.0000  2.45E+00  9.05E-02  8.98E+00
1.19E+01  1.96E+01  2.22E+01  2.87E+01  1.03E-03  129
 INGESTION OF LEAF VEG                   1.0000  3.70E+00  4.80E-01  1.29E+01
2.16E+01  3.57E+01  4.11E+01  7.19E+01  4.28E-04   53
 INGESTION OF ROOT CROPS                 1.0000  3.33E+00  3.48E-01  1.17E+01
1.79E+01  2.88E+01  3.21E+01  3.92E+01  1.03E-03  129
 INGESTION OF FRUITS                     1.0000  4.84E+00  4.48E-01  1.65E+01
2.60E+01  4.31E+01  5.06E+01  5.73E+01  1.03E-03  129
 INGESTION OF LEGUMES                    1.0000  2.97E+00  5.24E-01  1.07E+01
1.49E+01  2.59E+01  3.03E+01  3.35E+01  1.03E-03  129
 INGESTION OF BEEF                       1.0000  2.42E+01  7.10E+00  7.55E+01
1.03E+02  1.89E+02  2.14E+02  2.63E+02  1.03E-03  129
 INGESTION OF MILK                       1.0000  1.68E+01  5.49E+00  4.81E+01
7.09E+01  1.05E+02  1.09E+02  1.57E+02  4.04E-06   23
 INGESTION OF POULTRY                    1.0000  6.05E+00  1.78E+00  1.70E+01
3.07E+01  4.15E+01  4.72E+01  9.35E+01  4.28E-04   53
 INGESTION OF OTHER MEAT CROPS           1.0000  1.46E+00  5.32E-01  3.76E+00
```

5.50E+00 8.22E+00 9.17E+00 1.65E+01 4.28E-04   53

ECONOMIC COST MEASURES ($)   0-80.5 km
 TOTAL ECONOMIC COSTS 1.0000 5.91E+08 5.43E+08 1.02E+09
1.06E+09 1.17E+09 1.21E+09 1.81E+09 5.44E-06   9
 POP.-DEPENDENT COSTS 1.0000 5.81E+08 5.31E+08 1.02E+09
1.06E+09 1.16E+09 1.21E+09 1.79E+09 5.44E-06   9
 FARM-DEPENDENT COSTS 1.0000 1.02E+07 1.58E+06 3.29E+07
5.58E+07 9.68E+07 1.20E+08 1.54E+08 2.11E-03   43
 POP.-DEPENDENT DECONTAMINATION COST 1.0000 1.45E+08 1.26E+08 2.60E+08
3.03E+08 3.25E+08 3.35E+08 4.53E+08 5.05E-06   9
 FARM-DEPENDENT DECONTAMINATION COST 1.0000 1.76E+05 8.66E+04 4.01E+05
7.01E+05 1.03E+06 1.05E+06 1.26E+06 2.06E-05   9
 POP.-DEPENDENT INTERDICTION COST 1.0000 4.28E+08 3.83E+08 8.04E+08
9.39E+08 1.03E+09 1.05E+09 1.29E+09 1.01E-06 137
 FARM-DEPENDENT INTERDICTION COST 1.0000 8.70E+06 1.10E+06 3.08E+07
5.13E+07 8.80E+07 1.10E+08 1.42E+08 2.11E-03   43
 POP.-DEPENDENT CONDEMNATION COST 0.8820 8.08E+06 3.97E+06 1.31E+07
1.55E+07 1.06E+08 1.16E+08 1.25E+08 2.69E-03   9
 FARM-DEPENDENT CONDEMNATION COST 0.8820 5.44E+03 2.74E+03 8.11E+03
8.87E+03 7.21E+04 7.64E+04 7.73E+04 4.32E-03   9
 EMERGENCY PHASE COST 0.9702 1.09E+05 7.53E+04 3.08E+05
3.61E+05 5.44E+05 7.02E+05 7.16E+05 1.56E-03   9
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
13-NOV-09 18:34:33 PAGE 28 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($)   0-80.5 km
 MILK DISPOSAL COST 1.0000 8.99E+04 2.00E+03 3.20E+05
5.31E+05 1.27E+06 1.63E+06 2.52E+06 1.40E-03 129
 CROP DISPOSAL COST 1.0000 1.26E+06 2.31E+05 3.42E+06
5.23E+06 1.06E+07 1.25E+07 4.23E+07 5.42E-04   43
XXXX

XXXX

XXXX

```
HEALTH EFFECTS CASES
 CAN FAT/TOTAL                0-80.5 km  1.0000  5.64E+02  3.65E+02  1.27E+03
1.66E+03  2.38E+03  2.65E+03  5.36E+03  3.71E-04   43
 CAN FAT/TOTAL                0-16.1 km  1.0000  9.38E+01  8.64E+01  1.23E+02
1.37E+02  1.74E+02  1.94E+02  2.21E+02  1.01E-06  137

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.26E+04  8.34E+03  2.94E+04
3.56E+04  5.30E+04  6.00E+04  1.20E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.32E-04  2.13E-04  3.33E-04
3.63E-04  4.43E-04  4.83E-04  5.47E-04  1.01E-06  137
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:34:33    PAGE  30          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-80.5 km  1.0000  4.68E+01  3.78E+01  9.11E+01
1.09E+02  1.51E+02  1.74E+02  2.47E+02  3.71E-04   43
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.79E+01  1.45E+01  3.14E+01
3.88E+01  5.06E+01  5.11E+01  5.63E+01  5.05E-06  134
 ERL FAT/TOTAL                0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.03E+03  8.64E+02  2.07E+03
2.47E+03  3.33E+03  3.63E+03  5.59E+03  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-16.1 km  1.0000  4.57E-05  3.91E-05  8.08E-05
9.86E-05  1.06E-04  1.09E-04  1.44E-04  5.05E-06  134
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:34:33   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS
```

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  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:34:33    PAGE  31          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.17E+02  3.46E+02  1.16E+03
1.42E+03  2.18E+03  2.51E+03  5.12E+03  3.71E-04   43
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.59E+01  7.14E+01  1.04E+02
1.07E+02  1.16E+02  1.20E+02  1.80E+02  1.01E-06  137

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.16E+04  7.80E+03  2.67E+04
3.31E+04  4.79E+04  5.31E+04  1.15E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.86E-04  1.60E-04  2.99E-04
3.07E-04  3.24E-04  3.32E-04  4.41E-04  1.01E-06  137

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.16E+04  7.80E+03  2.67E+04
3.31E+04  4.79E+04  5.31E+04  1.15E+05  3.71E-04   43
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.15E+04  7.62E+03  2.66E+04
3.31E+04  4.79E+04  5.31E+04  1.15E+05  3.71E-04   43
 TOTAL INGESTION PATHWAYS DOSE          1.0000  7.16E+01  2.83E+01  2.08E+02
3.10E+02  4.79E+02  5.25E+02  6.06E+02  1.03E-03  129
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.12E+04  7.51E+03  2.53E+04
3.15E+04  4.42E+04  5.07E+04  1.12E+05  3.71E-04   43
 LONG-TERM RESUSPENSION DOSE            1.0000  3.17E+02  2.14E+02  7.61E+02
1.00E+03  1.28E+03  1.42E+03  3.19E+03  3.71E-04   43
 WATER INGESTION DOSE                   1.0000  1.02E+01  9.09E+00  1.72E+01
2.04E+01  2.31E+01  2.43E+01  3.40E+01  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  5.61E+01  4.88E+01  1.03E+02
1.14E+02  1.45E+02  1.60E+02  2.58E+02  1.91E-05   35
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  2.45E-02  1.68E-02  5.21E-02
7.20E-02  1.07E-01  1.18E-01  2.04E-01  9.27E-06   10
 INGESTION OF GRAINS                    1.0000  2.30E+00  5.92E-02  8.10E+00
1.21E+01  2.12E+01  2.24E+01  2.53E+01  1.03E-03  129
 INGESTION OF LEAF VEG                  1.0000  3.36E+00  2.81E-01  1.07E+01
2.05E+01  2.85E+01  3.62E+01  6.09E+01  6.57E-05   47
 INGESTION OF ROOT CROPS                1.0000  3.08E+00  1.87E-01  1.12E+01
1.62E+01  2.88E+01  3.11E+01  3.45E+01  1.03E-03  129
 INGESTION OF FRUITS                    1.0000  4.55E+00  3.84E-01  1.49E+01
2.39E+01  3.58E+01  3.96E+01  5.06E+01  1.03E-03  129
 INGESTION OF LEGUMES                   1.0000  2.69E+00  3.25E-01  9.42E+00
1.35E+01  2.21E+01  2.41E+01  2.94E+01  1.03E-03  129
 INGESTION OF BEEF                      1.0000  2.22E+01  6.48E+00  7.04E+01
9.72E+01  1.67E+02  2.02E+02  2.23E+02  1.03E-03  129
 INGESTION OF MILK                      1.0000  1.62E+01  4.74E+00  4.73E+01
7.36E+01  1.16E+02  1.28E+02  1.62E+02  1.03E-03  129
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 INGESTION OF POULTRY                    1.0000  5.75E+00  1.72E+00  1.63E+01
3.06E+01  4.58E+01  5.54E+01  8.34E+01  6.57E-05   47
 INGESTION OF OTHER MEAT CROPS           1.0000  1.25E+00  4.56E-01  2.91E+00
5.12E+00  7.51E+00  8.64E+00  1.39E+01  6.57E-05   47

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  5.09E+08  4.63E+08  9.08E+08
1.02E+09  1.12E+09  1.16E+09  1.70E+09  5.44E-06  134
 POP.-DEPENDENT COSTS                    1.0000  5.01E+08  4.40E+08  8.98E+08
1.02E+09  1.11E+09  1.16E+09  1.69E+09  5.44E-06  134
 FARM-DEPENDENT COSTS                    1.0000  8.30E+06  1.23E+06  2.40E+07
4.72E+07  6.82E+07  1.02E+08  1.49E+08  7.83E-05  139
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.24E+08  1.11E+08  2.31E+08
2.83E+08  3.16E+08  3.24E+08  4.37E+08  1.52E-06  132
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.49E+05  7.75E+04  3.43E+05
5.12E+05  1.01E+06  1.03E+06  1.25E+06  3.61E-05   10
 POP.-DEPENDENT INTERDICTION COST        1.0000  3.72E+08  3.37E+08  7.11E+08
8.07E+08  1.01E+09  1.03E+09  1.24E+09  5.44E-06  134
 FARM-DEPENDENT INTERDICTION COST        1.0000  7.15E+06  8.67E+05  2.22E+07
4.13E+07  6.68E+07  8.25E+07  1.37E+08  7.83E-05  139
 POP.-DEPENDENT CONDEMNATION COST        0.8535  5.27E+06  3.48E+06  1.09E+07
1.20E+07  1.48E+07  1.62E+07  1.25E+08  1.47E-05    9
 FARM-DEPENDENT CONDEMNATION COST        0.7243  1.68E+03  2.00E+03  2.43E+03
2.64E+03  7.57E+03 NOT-FOUND  8.49E+03  7.99E-03    2
 EMERGENCY PHASE COST                    0.9389  4.00E+04  1.35E+04  1.15E+05
1.30E+05  1.75E+05  1.99E+05  4.97E+05  2.86E-04   79
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:34:33    PAGE  32          PROB                            QUANTILES
                           PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  6.34E+04  1.27E+03  2.14E+05
4.02E+05  1.02E+06  1.12E+06  1.96E+06  6.70E-05  139
 CROP DISPOSAL COST                      1.0000  9.36E+05  1.79E+05  2.43E+06
3.27E+06  7.02E+06  1.07E+07  3.97E+07  5.42E-04   43

Successful completion of MACCS2 was achieved!
This job required a total of     51.984 CPU seconds

   Input processing required      0.164 CPU seconds
         Simulation required     50.891 CPU seconds
  Output processing required      0.930 CPU seconds
```

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MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised 1/8/04, K. McFadden
P1:  ATMOS USER INPUT (UNIT 24) = atmbi3NS.INP


P2:  EARLY USER INPUT (UNIT 25) = earbi-noE.INP


P3: CHRONC USER INPUT (UNIT 26) = chrbiEC.INP


P4:  METEOROLOGY DATA (UNIT 28) = meti01.INP


P5:   SITE DATA INPUT (UNIT 29) = siteiEC.INP


P6:       LIST OUTPUT (UNIT 06) = conbi3NS-noE-Nmet01EC.OUT




USER INPUT IS READ FROM UNIT 24
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT

       *

    1  RIATNAM1001 'ATMOS INPUT FOR IPEC CALCULATIONS'

*******************************************************************************

       * GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/

       *

       * NUMBER OF RADIAL SPATIAL ELEMENTS

       *

    2  GENUMRAD001  15

       *

       *

       *

    3  GESPAEND001     0.32      1.61      3.22      4.83      6.44
```

```
  4  GESPAEND002     8.05      9.66     11.27     12.87     14.48
  5  GESPAEND003    16.09     32.19     48.28     64.37     80.47

*******************************************************************************
     * NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
     *
     * Number of pseudo-stable nuclides (used to truncate the decay chains)
     *
  6  ISNUMSTB001      27
     *
     * List of pseudo-stable nuclides
     *
  7  ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
  8  ISNAMSTB002     Xe-131m  (daughter of I-131)
  9  ISNAMSTB003     Xe-133m  (daughter of I-133)
 10  ISNAMSTB004     Xe-135m  (daughter of I-135)
 11  ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
 12  ISNAMSTB006     Sm-147   (daughter of Pm-147)
 13  ISNAMSTB007     U-234    (daughter of Pu-238)
 14  ISNAMSTB008     U-235    (daughter of Pu-239)
 15  ISNAMSTB009     U-236    (daughter of Pu-240)
 16  ISNAMSTB010     U-237    (daughter of Pu-241)
 17  ISNAMSTB011     Np-237   (daughter of Am-241)
 18  ISNAMSTB012     Rb-87    (daughter of Kr-87)
 19  ISNAMSTB013     Ba-137m  (daughter of Cs-137)
 20  ISNAMSTB014     Rb-88    (daughter of Kr-88)
 21  ISNAMSTB015     Y-91m    (daughter of Sr-91)
 22  ISNAMSTB016     Zr-93    (daughter of Y-93)
 23  ISNAMSTB017     Nb-93m   (daughter of Zr-93)
 24  ISNAMSTB018     Nb-95m   (daughter of Zr-95)
 25  ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
 26  ISNAMSTB020     Nb-97m   (daughter of Zr-97)
```

```
ISNAMSTB021     Tc-99    (daughter of Mo-99)
ISNAMSTB022     Rh-103m  (daughter of Ru-103)
ISNAMSTB023     Rh-106   (daughter of Ru-106)
ISNAMSTB024    Te-131    (daughter of Te-131m)
ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026     Pr-144m  (daughter of Ce-144)
ISNAMSTB027     Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
*
ISDEPFLA001    .FALSE.   .FALSE.
ISDEPFLA002    .TRUE.    .TRUE.
ISDEPFLA003    .TRUE.    .TRUE.
ISDEPFLA004    .TRUE.    .TRUE.
ISDEPFLA005    .TRUE.    .TRUE.
ISDEPFLA006    .TRUE.    .TRUE.
ISDEPFLA007    .TRUE.    .TRUE.
ISDEPFLA008    .TRUE.    .TRUE.
ISDEPFLA009    .TRUE.    .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
```

```
*
*                NUCNAM    IGROUP
*
45  ISOTPGRP001     Co-58        6
46  ISOTPGRP002     Co-60        6
47  ISOTPGRP003     Kr-85        1
48  ISOTPGRP004     Kr-85m       1
49  ISOTPGRP005     Kr-87        1
50  ISOTPGRP006     Kr-88        1
51  ISOTPGRP007     Rb-86        3
52  ISOTPGRP008     Sr-89        5
53  ISOTPGRP009     Sr-90        5
54  ISOTPGRP010     Sr-91        5
55  ISOTPGRP011     Sr-92        5
56  ISOTPGRP012     Y-90         7
57  ISOTPGRP013     Y-91         7
58  ISOTPGRP014     Y-92         7
59  ISOTPGRP015     Y-93         7
60  ISOTPGRP016     Zr-95        7
61  ISOTPGRP017     Zr-97        7
62  ISOTPGRP018     Nb-95        7
63  ISOTPGRP019     Mo-99        6
64  ISOTPGRP020     Tc-99m       6
65  ISOTPGRP021     Ru-103       6
66  ISOTPGRP022     Ru-105       6
67  ISOTPGRP023     Ru-106       6
68  ISOTPGRP024     Rh-105       6
69  ISOTPGRP025     Sb-127       4
70  ISOTPGRP026     Sb-129       4
71  ISOTPGRP027     Te-127       4
72  ISOTPGRP028     Te-127m      4
73  ISOTPGRP029     Te-129       4
```

74	ISOTPGRP030	Te-129m	4
75	ISOTPGRP031	Te-131m	4
76	ISOTPGRP032	Te-132	4
77	ISOTPGRP033	I-131	2
78	ISOTPGRP034	I-132	2
79	ISOTPGRP035	I-133	2
80	ISOTPGRP036	I-134	2
81	ISOTPGRP037	I-135	2
82	ISOTPGRP038	Xe-133	1
83	ISOTPGRP039	Xe-135	1
84	ISOTPGRP040	Cs-134	3
85	ISOTPGRP041	Cs-136	3
86	ISOTPGRP042	Cs-137	3
87	ISOTPGRP043	Ba-139	9
88	ISOTPGRP044	Ba-140	9
89	ISOTPGRP045	La-140	7
90	ISOTPGRP046	La-141	7
91	ISOTPGRP047	La-142	7
92	ISOTPGRP048	Ce-141	8
93	ISOTPGRP049	Ce-143	8
94	ISOTPGRP050	Ce-144	8
95	ISOTPGRP051	Pr-143	7
96	ISOTPGRP052	Nd-147	7
97	ISOTPGRP053	Np-239	8
98	ISOTPGRP054	Pu-238	8
99	ISOTPGRP055	Pu-239	8
100	ISOTPGRP056	Pu-240	8
101	ISOTPGRP057	Pu-241	8
102	ISOTPGRP058	Am-241	7
103	ISOTPGRP059	Cm-242	7
104	ISOTPGRP060	Cm-244	7

```
*****************************************************************************
       * WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
       *
       * WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
       *
  105  WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
       *
       * WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
       *
  106  WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)

*****************************************************************************
       * DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
       *
       * NUMBER OF PARTICLE SIZE GROUPS
       *
  107  DDNPSGRP001   1
       *
       * DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
       *
  108  DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)

*****************************************************************************
       * DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/,
/DISPZ/
       *
       * # of distances in plume-size tables--which can be used as an alternative to
the power-law model:
       * (to utilize the power-law model, set NUM_DIST to zero or delete the
following data card)
       *
  109  NUM_DIST001   0
       *
       * SIGMA = A * X ** B
       *
```

```
      * Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km

      * as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).

      * P-G CLASS:          A            B            C            D            E
       F
  110  DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
    0.0722
  111  DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
    0.9031
  112  DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
    0.2
  113  DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
    0.6020
      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1

      *

  114  DPYSCALE001    1.

      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,

      *  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.

      *  (Z1 / Z0) ** 0.2,   FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27

      *

  115  DPZSCALE001    1.27

****************************************************************************** *

      * EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/

      *

      * TIME BASE FOR EXPANSION FACTOR (SECONDS)

      *

  116  PMTIMBAS001    600.   (10 MINUTES)

      *

      * BREAK POINT FOR FORMULA CHANGE (SECONDS)

      *

  117  PMBRKPNT001   3600.   (1 HOUR)

      *

      * EXPONENTIAL EXPANSION FACTOR NUMBER 1

      *

  118  PMXPFAC1001      0.2
```

```
        *
        * EXPONENTIAL EXPANSION FACTOR NUMBER 2
        *
  119   PMXPFAC2001      0.25
*******************************************************************************
        * PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
        *
        * SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT
PLUME
        * (USED BY FUNCTION CAUGHT)
        *
  120   PRSCLCRW001   1.
        *
        * SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  121   PRSCLADP001   1.
        *
        * SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  122   PRSCLEFP001   1.
*******************************************************************************
        * RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
        ********************** RELEASE DATA BLOCK ************
        * SOURCE TERM NUMBER  1 OF 8
  123   RDATNAM2001 'NCF'
        *
        * TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
        * CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
        * PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
        *
```

```
124  RDOALARM001   1.26E+04
     *
     * NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
     *
125  RDNUMREL001          1
     *
     * SELECTION OF RISK DOMINANT PLUME
     *
126  RDMAXRIS001          1
     *
     * REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
     *
127  RDREFTIM001        0.5
     *
     * HEAT CONTENT OF THE RELEASE SEGMENTS (W)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
128  RDPLHEAT001   9.20E+05
     *
     * HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
129  RDPLHITE001        30.
     *
     * DURATION OF THE PLUME SEGMENTS (S)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
130  RDPLUDUR001   8.64E+04
     *
     * TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
```

```
*
RDPDELAY001   0.00E+00
*
* Initial value of sigma-y for each plume--Note: values required for each
plume
*
SIGYINIT001   9.9  (initial sigma-y = W/4.3 = 42.5/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each
plume
*
SIGZINIT001  31.1  (initial sigma-z = H/2.15 = 66.8/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   66.8
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
*
*               NUCNAM  CORINV (Bq)
*
RDCORINV001     Co-58    3.04E+16
```

145	RDCORINV002	Co-60	2.32E+16
146	RDCORINV003	Kr-85	3.87E+16
147	RDCORINV004	Kr-85m	8.52E+17
148	RDCORINV005	Kr-87	1.64E+18
149	RDCORINV006	Kr-88	2.30E+18
150	RDCORINV007	Rb-86	8.24E+15
151	RDCORINV008	Sr-89	3.09E+18
152	RDCORINV009	Sr-90	3.07E+17
153	RDCORINV010	Sr-91	3.87E+18
154	RDCORINV011	Sr-92	4.19E+18
155	RDCORINV012	Y-90	3.20E+17
156	RDCORINV013	Y-91	3.98E+18
157	RDCORINV014	Y-92	4.22E+18
158	RDCORINV015	Y-93	4.85E+18
159	RDCORINV016	Zr-95	5.38E+18
160	RDCORINV017	Zr-97	5.41E+18
161	RDCORINV018	Nb-95	5.45E+18
162	RDCORINV019	Mo-99	6.11E+18
163	RDCORINV020	Tc-99m	5.34E+18
164	RDCORINV021	Ru-103	4.85E+18
165	RDCORINV022	Ru-105	3.34E+18
166	RDCORINV023	Ru-106	1.69E+18
167	RDCORINV024	Rh-105	3.08E+18
168	RDCORINV025	Sb-127	3.45E+17
169	RDCORINV026	Sb-129	1.04E+18
170	RDCORINV027	Te-127	3.43E+17
171	RDCORINV028	Te-127m	4.47E+16
172	RDCORINV029	Te-129	1.02E+18
173	RDCORINV030	Te-129m	1.49E+17
174	RDCORINV031	Te-131m	4.64E+17
175	RDCORINV032	Te-132	4.54E+18

```
RDCORINV033     I-131    3.18E+18
RDCORINV034     I-132    4.64E+18
RDCORINV035     I-133    6.56E+18
RDCORINV036     I-134    7.19E+18
RDCORINV037     I-135    6.14E+18
RDCORINV038     Xe-133   6.25E+18
RDCORINV039     Xe-135   1.67E+18
RDCORINV040     Cs-134   7.16E+17
RDCORINV041     Cs-136   2.08E+17
RDCORINV042     Cs-137   4.15E+17
RDCORINV043     Ba-139   5.86E+18
RDCORINV044     Ba-140   5.58E+18
RDCORINV045     La-140   5.76E+18
RDCORINV046     La-141   5.34E+18
RDCORINV047     La-142   5.17E+18
RDCORINV048     Ce-141   5.31E+18
RDCORINV049     Ce-143   4.99E+18
RDCORINV050     Ce-144   4.19E+18
RDCORINV051     Pr-143   4.78E+18
RDCORINV052     Nd-147   2.12E+18
RDCORINV053     Np-239   6.53E+19
RDCORINV054     Pu-238   1.43E+16
RDCORINV055     Pu-239   1.22E+15
RDCORINV056     Pu-240   1.82E+15
RDCORINV057     Pu-241   4.08E+17
RDCORINV058     Am-241   5.03E+14
RDCORINV059     Cm-242   1.21E+17
RDCORINV060     Cm-244   1.29E+16
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*
```

```
  204  RDCORSCA001   1.0
       *
  205  RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
       *
       * RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
       *
       *  ISOTOPE GROUPS:
       *
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
  206  RDRELFRC001 9.6E-05 6.5E-06 2.7E-06 2.1E-06 6.1E-08 5.2E-07 3.3E-09 2.7E-08
1.8E-07
       *

*******************************************************************************
       * OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
       *
       * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
       *
  207  OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
       *
  208  OCIDEBUG001  0
       *
       * NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
       *
       *OCNUCOUT001  Cs-137
       *
       *              NUM0
  209  TYPE0NUMBER      0
       *
       *              INDREL   INDRAD
       *TYPE0OUT001      1        9
       *TYPE0OUT002      1       10         CCDF
```

```
*****************************************************************************
      * METEOROLOGICAL SAMPLING DATA BLOCK
      *
      * METEOROLOGICAL SAMPLING OPTION CODE:
      *
      * METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
      *          2, WEATHER CATEGORY BIN SAMPLING,
      *          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
      *          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
      *          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
      *
  210 M1METCOD001  2
      *
      * LAST SPATIAL INTERVAL FOR MEASURED WEATHER
      *
  211 M2LIMSPA001  15
      *
      * BOUNDARY WEATHER MIXING LAYER HEIGHT
      *
  212 M2BNDMXH001  1000.  (METERS)
      *
      * BOUNDARY WEATHER STABILITY CLASS INDEX
      *
  213 M2IBDSTB001  4      (D-STABILITY)
      *
      * BOUNDARY WEATHER RAIN RATE
      *
  214 M2BNDRAN001  0.     (MM/HR)
      *
      * BOUNDARY WEATHER WIND SPEED
      *
```

```
215  M2BNDWND001  5.     (M/S)
     *
     * NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
     *
216  M4NRNINT001  6
     *
     * ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
     *
     * NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
     *       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
     *
     *             2.0    4.0      7     10.0     20.0   40.0   MILES
     *
217  M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
     *
     * NUMBER OF RAIN INTENSITIY BREAKPOINTS
     *
218  M4NRINTN001   3
     *
     * RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
     *
219  M4RNRATE001   2.  4.  6.
     *
     * NUMBER OF SAMPLES PER BIN
     *
220  M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
     *
     * INITIAL SEED FOR RANDOM NUMBER GENERATOR
     *
221  M4IRSEED001   79
     .
```

```
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  449
NUMBER OF BLANK OR COMMENT RECORDS READ         =  227
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =  221
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =  221
*******************************************************************************
****************



Decay Chain #  Ba-139

Decay Chain #  Ba-140   La-140
Fraction of Ba-140  going to La-140  in this chain = 1.000000

Decay Chain #  Ce-143   Pr-143
Fraction of Ce-143  going to Pr-143  in this chain = 1.000000

Decay Chain #  Ce-144

Decay Chain #  Cm-242   Pu-238
Fraction of Cm-242  going to Pu-238  in this chain = 1.000000

Decay Chain #  Cm-244   Pu-240
Fraction of Cm-244  going to Pu-240  in this chain = 1.000000

Decay Chain #  Co-58

Decay Chain #  Co-60

Decay Chain #  Cs-134

Decay Chain #  Cs-136

Decay Chain #  Cs-137

Decay Chain #  I-133    Xe-133
Fraction of I-133   going to Xe-133  in this chain = 0.971000

Decay Chain #  I-134

Decay Chain #  I-135    Xe-135
Fraction of I-135   going to Xe-135  in this chain = 0.846000

Decay Chain #  Kr-85m   Kr-85
Fraction of Kr-85m  going to Kr-85   in this chain = 0.211000

Decay Chain #  Kr-87

Decay Chain #  Kr-88

Decay Chain #  La-141   Ce-141
Fraction of La-141  going to Ce-141  in this chain = 1.000000

Decay Chain #  La-142

Decay Chain #  Mo-99    Tc-99m
```

```
Fraction of Mo-99   going to Tc-99m  in this chain = 0.876000

Decay Chain #  Nd-147

Decay Chain #  Np-239   Pu-239
Fraction of Np-239  going to Pu-239  in this chain = 1.000000

Decay Chain #  Pu-241   Am-241
Fraction of Pu-241  going to Am-241  in this chain = 1.000000

Decay Chain #  Rb-86

Decay Chain #  Ru-103

Decay Chain #  Ru-105   Rh-105
Fraction of Ru-105  going to Rh-105  in this chain = 1.000000

Decay Chain #  Ru-106

Decay Chain #  Sb-127   Te-127
Fraction of Sb-127  going to Te-127  in this chain = 0.824000

Decay Chain #  Sb-127   Te-127m  Te-127
Fraction of Sb-127  going to Te-127m in this chain = 0.176000
Fraction of Sb-127  going to Te-127  in this chain = 0.171776
Fraction of Te-127m going to Te-127  in this chain = 0.976000

Decay Chain #  Sb-129   Te-129
Fraction of Sb-129  going to Te-129  in this chain = 0.775000

Decay Chain #  Sb-129   Te-129m  Te-129
Fraction of Sb-129  going to Te-129m in this chain = 0.225000
Fraction of Sb-129  going to Te-129  in this chain = 0.146250
Fraction of Te-129m going to Te-129  in this chain = 0.650000

Decay Chain #  Sr-89

Decay Chain #  Sr-90    Y-90
Fraction of Sr-90   going to Y-90    in this chain = 1.000000

Decay Chain #  Sr-91    Y-91
Fraction of Sr-91   going to Y-91    in this chain = 0.422000

Decay Chain #  Sr-92    Y-92
Fraction of Sr-92   going to Y-92    in this chain = 1.000000

Decay Chain #  Te-131m  I-131
Fraction of Te-131m going to I-131   in this chain = 0.778000

Decay Chain #  Te-132   I-132
Fraction of Te-132  going to I-132   in this chain = 1.000000

Decay Chain #  Y-93

Decay Chain #  Zr-95    Nb-95
Fraction of Zr-95   going to Nb-95   in this chain = 0.993000

Decay Chain #  Zr-97


RELEASED INVENTORY OF ALL PLUMES
Co-58      1.57E+10
Co-60      1.21E+10
```

Kr-85	3.72E+12
Kr-85m	1.28E+13
Kr-87	2.27E+11
Kr-88	1.18E+13
Rb-86	2.18E+10
Sr-89	1.87E+11
Sr-90	1.87E+10
Sr-91	9.84E+10
Sr-92	1.19E+10
Y-90	3.21E+09
Y-91	1.34E+10
Y-92	4.22E+10
Y-93	7.02E+09
Zr-95	1.77E+10
Zr-97	1.09E+10
Nb-95	1.80E+10
Mo-99	2.80E+12
Tc-99m	2.63E+12
Ru-103	2.50E+12
Ru-105	2.67E+11
Ru-106	8.78E+11
Rh-105	1.42E+12
Sb-127	6.62E+11
Sb-129	3.18E+11
Te-127	6.84E+11
Te-127m	9.40E+10
Te-129	5.40E+11
Te-129m	3.12E+11
Te-131m	7.38E+11
Te-132	8.57E+12
I-131	1.98E+13
I-132	9.38E+12
I-133	2.86E+13
I-134	3.54E+09
I-135	1.13E+13
Xe-133	5.64E+14
Xe-135	7.47E+13
Cs-134	1.93E+12
Cs-136	5.47E+11
Cs-137	1.12E+12
Ba-139	2.53E+09
Ba-140	9.77E+11
La-140	2.00E+11
La-141	2.12E+09
La-142	7.74E+07
Ce-141	1.42E+11
Ce-143	1.05E+11
Ce-144	1.13E+11
Pr-143	1.84E+10
Nd-147	6.78E+09
Np-239	1.52E+12
Pu-238	3.86E+08
Pu-239	3.30E+07
Pu-240	4.91E+07
Pu-241	1.10E+10
Am-241	1.68E+06
Cm-242	3.98E+08
Cm-244	4.26E+07

READING FROM A WEATHER FILE WITH THE FOLLOWING HEADER:
INDIAN POINT ENERGY CENTER METEORLOGICAL DATAFILE
Input file for the MACCS2 model using the year 2001
METEOROLOGICAL DATA FILE CONTAINS 324 HOURS OF OBSERVED RAIN DATA.

```
            ACCUMULATED RAIN MEASUREMENTS TOTALED  28.30 INCHES FOR THE YEAR.
            CONSTANT LID HEIGHTS (M) FOR 4 SEASONS =    1100   1500   1500   1200
            NON-ZERO WINDSPEEDS LESS THAN 0.5 M/S ARE SET TO 0.5 M/S
NUMTRI=         150


                                  * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND, 1 (0-1), 2 (1-2), 3
(2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                   WIND DIRECTION
  METBIN    1     2     3     4     5     6     7     8     9    10    11    12
13    14    15    16  TOTAL   PER CENT

 1 B   3  0.266 0.028 0.007 0.014 0.042 0.126 0.105 0.084 0.070 0.000 0.000 0.000
0.000 0.000 0.000 0.259  143     1.6324
 2 B   4  0.079 0.053 0.018 0.000 0.035 0.105 0.149 0.105 0.272 0.132 0.000 0.000
0.000 0.000 0.009 0.044  114     1.3014
 3 D   1  0.098 0.055 0.072 0.026 0.043 0.026 0.021 0.026 0.043 0.038 0.043 0.068
0.077 0.111 0.098 0.157  235     2.6826
 4 D   2  0.179 0.095 0.054 0.056 0.041 0.044 0.057 0.063 0.098 0.101 0.059 0.020
0.016 0.012 0.020 0.088 1469    16.7694
 5 D   3  0.151 0.053 0.023 0.034 0.067 0.075 0.112 0.084 0.192 0.129 0.028 0.005
0.001 0.002 0.002 0.042 1709    19.5091
 6 D   4  0.097 0.055 0.014 0.018 0.040 0.081 0.219 0.115 0.149 0.191 0.013 0.000
0.000 0.000 0.000 0.008 1118    12.7626
 7 D   5  0.000 0.035 0.000 0.000 0.018 0.035 0.333 0.035 0.474 0.070 0.000 0.000
0.000 0.000 0.000 0.000   57     0.6507
 9 E   1  0.098 0.080 0.061 0.061 0.036 0.018 0.019 0.032 0.080 0.087 0.076 0.047
0.073 0.058 0.073 0.105  727     8.2991
10 E   2  0.163 0.087 0.060 0.043 0.020 0.009 0.009 0.017 0.033 0.187 0.171 0.054
0.027 0.022 0.012 0.087 1147    13.0936
11 E   3  0.194 0.051 0.015 0.022 0.015 0.011 0.007 0.004 0.048 0.341 0.253 0.004
0.000 0.000 0.000 0.037  273     3.1164
12 E   4  0.263 0.026 0.026 0.000 0.079 0.211 0.000 0.026 0.105 0.105 0.079 0.000
0.000 0.000 0.000 0.079   38     0.4338
13 F   1  0.016 0.021 0.032 0.032 0.021 0.043 0.043 0.091 0.241 0.230 0.086 0.064
0.011 0.027 0.027 0.016  187     2.1347
14 F   2  0.007 0.013 0.007 0.007 0.000 0.000 0.003 0.007 0.052 0.479 0.300 0.078
0.020 0.010 0.007 0.013  307     3.5046
15 F   3  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.355 0.645 0.000
0.000 0.000 0.000 0.000   62     0.7078
16 F   4  0.000 0.000 0.000 0.000 0.000 0.000 0.071 0.143 0.071 0.357 0.286 0.071
0.000 0.000 0.000 0.000   14     0.1598
17 R1  3  0.090 0.033 0.029 0.012 0.020 0.012 0.016 0.041 0.168 0.328 0.086 0.037
0.037 0.037 0.020 0.033  244     2.7854
18 R1  6  0.089 0.054 0.000 0.036 0.036 0.000 0.018 0.036 0.161 0.125 0.125 0.071
0.071 0.071 0.054 0.054   56     0.6393
19 R1 11  0.123 0.031 0.046 0.031 0.000 0.000 0.015 0.092 0.108 0.185 0.123 0.031
0.046 0.031 0.031 0.108   65     0.7420
20 R1 16  0.065 0.081 0.032 0.032 0.032 0.000 0.000 0.065 0.048 0.210 0.097 0.048
0.016 0.032 0.032 0.210   62     0.7078
21 R1 32  0.093 0.093 0.019 0.025 0.012 0.000 0.012 0.012 0.124 0.199 0.087 0.043
0.019 0.075 0.037 0.149  161     1.8379
```

```
22 R1 65  0.170 0.072 0.043 0.026 0.010 0.010 0.010 0.026 0.118 0.180 0.062 0.023
0.043 0.036 0.030 0.141  305     3.4817
23 R2  3  0.190 0.095 0.000 0.000 0.000 0.024 0.000 0.000 0.167 0.333 0.071 0.000
0.024 0.048 0.024 0.024   42     0.4795
24 R2  6  0.000 0.000 0.200 0.000 0.000 0.200 0.000 0.000 0.400 0.000 0.000 0.000
0.000 0.000 0.000 0.200    5     0.0571
25 R2 11  0.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.200 0.200 0.000 0.000
0.000 0.200 0.000 0.000    5     0.0571
26 R2 16  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.250 0.500 0.000 0.000
0.000 0.000 0.000 0.250    4     0.0457
27 R2 32  0.375 0.000 0.000 0.125 0.000 0.000 0.000 0.000 0.000 0.375 0.000 0.000
0.000 0.000 0.000 0.125    8     0.0913
28 R2 65  0.214 0.143 0.286 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.071 0.286   14     0.1598
29 R3  3  0.158 0.053 0.000 0.000 0.000 0.000 0.053 0.000 0.211 0.421 0.053 0.000
0.000 0.053 0.000 0.000   19     0.2169
30 R3  6  0.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000    1     0.0114
31 R3 11  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.333 0.000 0.000
0.000 0.000 0.000 0.667    3     0.0342
32 R3 16  1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000    2     0.0228
33 R3 32  0.143 0.000 0.000 0.000 0.000 0.143 0.000 0.000 0.286 0.143 0.000 0.000
0.000 0.143 0.000 0.143    7     0.0799
34 R3 65  0.600 0.000 0.000 0.100 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.200 0.000 0.000 0.100   10     0.1142
35 R4  3  0.129 0.097 0.032 0.065 0.000 0.000 0.000 0.032 0.065 0.194 0.065 0.032
0.097 0.032 0.097 0.065   31     0.3539
36 R4  6  0.250 0.000 0.000 0.000 0.125 0.000 0.125 0.000 0.000 0.125 0.000 0.000
0.000 0.000 0.125 0.250    8     0.0913
37 R4 11  0.167 0.167 0.083 0.083 0.000 0.083 0.000 0.000 0.000 0.000 0.000 0.083
0.000 0.083 0.000 0.250   12     0.1370
38 R4 16  0.400 0.100 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.200 0.100 0.200   10     0.1142
39 R4 32  0.448 0.069 0.000 0.000 0.000 0.034 0.000 0.000 0.103 0.034 0.034 0.000
0.034 0.069 0.069 0.103   29     0.3311
40 R4 65  0.386 0.053 0.018 0.018 0.035 0.018 0.000 0.000 0.000 0.070 0.088 0.070
0.035 0.018 0.035 0.158   57     0.6507
41 ALL    0.138 0.065 0.036 0.034 0.036 0.043 0.071 0.056 0.117 0.165 0.082 0.026
0.020 0.020 0.019 0.070 8760
```

```
                              * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND (M/S), 1 (0-1), 2 (1-2),
3 (2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                WIND DIRECTION
  METBIN    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15
 16 TOTAL   PER CENT

 1 B   3    38    4    1    2    6   18   15   12   10    0    0    0    0    0    0
  37  143     1.6324
 2 B   4     9    6    2    0    4   12   17   12   31   15    0    0    0    0    1
   5  114     1.3014
 3 D   1    23   13   17    6   10    6    5    6   10    9   10   16   18   26   23
```

```
  37  235     2.6826
 4 D   2   263  140   79   82   60   65   83   92  144  148   86   29   23   17   29
 129 1469    16.7694
 5 D   3   258   91   39   58  115  129  192  143  328  221   47    9    1    3    3
  72 1709    19.5091
 6 D   4   108   61   16   20   45   91  245  129  167  213   14    0    0    0    0
   9 1118    12.7626
 7 D   5     0    2    0    0    1    2   19    2   27    4    0    0    0    0    0
   0   57     0.6507
 8 D   6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
 9 E   1    71   58   44   44   26   13   14   23   58   63   55   34   53   42   53
  76  727     8.2991
10 E   2   187  100   69   49   23   10   10   19   38  214  196   62   31   25   14
 100 1147    13.0936
11 E   3    53   14    4    6    4    3    2    1   13   93   69    1    0    0    0
  10  273     3.1164
12 E   4    10    1    1    0    3    8    0    1    4    4    3    0    0    0    0
   3   38     0.4338
13 F   1     3    4    6    6    4    8    8   17   45   43   16   12    2    5    5
   3  187     2.1347
14 F   2     2    4    2    2    0    0    1    2   16  147   92   24    6    3    2
   4  307     3.5046
15 F   3     0    0    0    0    0    0    0    0    0   22   40    0    0    0    0
   0   62     0.7078
16 F   4     0    0    0    0    0    0    1    2    1    5    4    1    0    0    0
   0   14     0.1598
17 R1  3    22    8    7    3    5    3    4   10   41   80   21    9    9    9    5
   8  244     2.7854
18 R1  6     5    3    0    2    2    0    1    2    9    7    7    4    4    4    3
   3   56     0.6393
19 R1 11     8    2    3    2    0    0    1    6    7   12    8    2    3    2    2
   7   65     0.7420
20 R1 16     4    5    2    2    2    0    0    4    3   13    6    3    1    2    2
  13   62     0.7078
21 R1 32    15   15    3    4    2    0    2    2   20   32   14    7    3   12    6
  24  161     1.8379
22 R1 65    52   22   13    8    3    3    3    8   36   55   19    7   13   11    9
  43  305     3.4817
23 R2  3     8    4    0    0    0    1    0    0    7   14    3    0    1    2    1
   1   42     0.4795
24 R2  6     0    0    1    0    0    1    0    0    2    0    0    0    0    0    0
   1    5     0.0571
25 R2 11     2    0    0    0    0    0    0    0    1    1    0    0    0    1    0
   0    5     0.0571
26 R2 16     0    0    0    0    0    0    0    0    1    2    0    0    0    0    0
   1    4     0.0457
27 R2 32     3    0    0    1    0    0    0    0    0    3    0    0    0    0    0
   1    8     0.0913
28 R2 65     3    2    4    0    0    0    0    0    0    0    0    0    0    0    1
   4   14     0.1598
29 R3  3     3    1    0    0    0    0    1    0    4    8    1    0    0    1    0
   0   19     0.2169
30 R3  6     0    1    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    1     0.0114
31 R3 11     0    0    0    0    0    0    0    0    0    1    0    0    0    0    0
   2    3     0.0342
32 R3 16     2    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    2     0.0228
33 R3 32     1    0    0    0    0    0    1    0    0    2    1    0    0    1    0
   1    7     0.0799
34 R3 65     6    0    0    1    0    0    0    0    0    0    0    0    2    0    0
   1   10     0.1142
```

```
35 R4  3     4    3    1    2    0    0    0    1    2    6    2    1    3    1    3
   2   31     0.3539
36 R4  6     2    0    0    0    1    0    1    0    0    1    0    0    0    0    1
   2    8     0.0913
37 R4 11     2    2    1    1    0    1    0    0    0    0    0    1    0    1    0
   3   12     0.1370
38 R4 16     4    1    0    0    0    0    0    0    0    0    0    0    0    2    1
   2   10     0.1142
39 R4 32    13    2    0    0    0    1    0    0    3    1    1    0    1    2    2
   3   29     0.3311
40 R4 65    22    3    1    1    2    1    0    0    0    4    5    4    2    1    2
   9   57     0.6507


              * * * * SUMMARIES * * * *

   R      181   74   36   27   17   11   14   33  136  242   88   38   42   52   38
131 1160   13.2420
   B       47   10    3    2   10   30   32   24   41   15    0    0    0    0    1
 42  257    2.9338
   D      652  307  151  166  231  293  544  372  676  595  157   54   42   46   55
247 4588   52.3744
   E      321  173  118   99   56   34   26   44  113  374  323   97   84   67   67
189 2185   24.9429
   F        5    8    8    8    4    8   10   21   62  217  152   37    8    8    7
  7  570    6.5068
      1    97   75   67   56   40   27   27   46  113  115   81   62   73   73   81
116 1149   13.1164
      2   453  244  150  133   85   76   96  114  198  509  374  115   60   45   45
235 2932   33.4703
      3   348  109   44   66  123  149  207  155  351  336  156   10    1    3    3
117 2178   24.8630
      4   127   68   19   20   51  110  262  144  192  234   21    1    0    0    1
 17 1267   14.4635
      5     0    2    0    0    2    3   20    2   37    7    0    0    0    0    0
  0   73    0.8333
      6     0    0    0    0    0    0    0    0    1    0    0    0    0    0    0
  0    1    0.0114

                * * * * * BIN WINDROSE SUMMARY * * * * *

  BIN                            DIRECTION
                                     TOTAL
          1      2      3      4      5      6      7      8      9     10     11
 12     13     14     15     16
    1  0.266  0.028  0.007  0.014  0.042  0.126  0.105  0.084  0.070  0.000  0.000
0.000  0.000  0.000  0.000  0.259  1.000000
    2  0.079  0.053  0.018  0.000  0.035  0.105  0.149  0.105  0.272  0.132  0.000
0.000  0.000  0.000  0.009  0.044  1.000000
    3  0.098  0.055  0.072  0.026  0.043  0.026  0.021  0.026  0.043  0.038  0.043
0.068  0.077  0.111  0.098  0.157  1.000000
    4  0.179  0.095  0.054  0.056  0.041  0.044  0.057  0.063  0.098  0.101  0.059
0.020  0.016  0.012  0.020  0.088  1.000000
    5  0.151  0.053  0.023  0.034  0.067  0.075  0.112  0.084  0.192  0.129  0.028
0.005  0.001  0.002  0.002  0.042  1.000000
    6  0.097  0.055  0.014  0.018  0.040  0.081  0.219  0.115  0.149  0.191  0.013
0.000  0.000  0.000  0.000  0.008  1.000000
    7  0.000  0.035  0.000  0.000  0.018  0.035  0.333  0.035  0.474  0.070  0.000
0.000  0.000  0.000  0.000  0.000  1.000000
    8  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000000
    9  0.098  0.080  0.061  0.061  0.036  0.018  0.019  0.032  0.080  0.087  0.076
0.047  0.073  0.058  0.073  0.105  1.000000
```

```
   10  0.163  0.087  0.060  0.043  0.020  0.009  0.009  0.017  0.033  0.187  0.171
0.054  0.027  0.022  0.012  0.087  1.000000
   11  0.194  0.051  0.015  0.022  0.015  0.011  0.007  0.004  0.048  0.341  0.253
0.004  0.000  0.000  0.000  0.037  1.000000
   12  0.263  0.026  0.026  0.000  0.079  0.211  0.000  0.026  0.105  0.105  0.079
0.000  0.000  0.000  0.000  0.079  1.000000
   13  0.016  0.021  0.032  0.032  0.021  0.043  0.043  0.091  0.241  0.230  0.086
0.064  0.011  0.027  0.027  0.016  1.000000
   14  0.007  0.013  0.007  0.007  0.000  0.000  0.003  0.007  0.052  0.479  0.300
0.078  0.020  0.010  0.007  0.013  1.000000
   15  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.355  0.645
0.000  0.000  0.000  0.000  0.000  1.000000
   16  0.000  0.000  0.000  0.000  0.000  0.000  0.071  0.143  0.071  0.357  0.286
0.071  0.000  0.000  0.000  0.000  1.000000
   17  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   18  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   19  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   20  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   21  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   22  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   23  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   24  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   25  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   26  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   27  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   28  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   29  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   30  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   31  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   32  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   33  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   34  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   35  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   36  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   37  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   38  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   39  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   40  0.156  0.064  0.031  0.023  0.015  0.009  0.012  0.028  0.117  0.209  0.076
0.033  0.036  0.045  0.033  0.113  1.000000
   41  0.138  0.065  0.036  0.034  0.036  0.043  0.071  0.056  0.117  0.165  0.082
```

```
0.026  0.020  0.020  0.019  0.070  1.000000


******** BEGINNING OF CHANGE CASE   1 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  2 OF 8

       *

  222  RDATNAM2001 'EARLY HIGH'

********   RECORD NUMBER   222 REPLACES RECORD NUMBER   123   ********
       *

  223  RDOALARM001   1.27E+04

********   RECORD NUMBER   223 REPLACES RECORD NUMBER   124   ********
  224  RDNUMREL001   1

********   RECORD NUMBER   224 REPLACES RECORD NUMBER   125   ********
  225  RDMAXRIS001   1

********   RECORD NUMBER   225 REPLACES RECORD NUMBER   126   ********
  226  RDREFTIM001   0.0

********   RECORD NUMBER   226 REPLACES RECORD NUMBER   127   ********
  227  RDPLHEAT001   1.03E+06

********   RECORD NUMBER   227 REPLACES RECORD NUMBER   128   ********
  228  RDPLHITE001   30.

********   RECORD NUMBER   228 REPLACES RECORD NUMBER   129   ********
  229  RDPLUDUR001   7.92E+04

********   RECORD NUMBER   229 REPLACES RECORD NUMBER   130   ********
  230  RDPDELAY001   1.20E+04

********   RECORD NUMBER   230 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  231  RDRELFRC001 6.4E-01 1.6E-01 1.5E-01 1.5E-01 1.6E-02 6.5E-02 5.6E-04 3.0E-03
3.1E-02
********   RECORD NUMBER   231 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   1 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   1
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.97E+15
Co-60      1.51E+15
Kr-85      2.48E+16
```

Kr-85m	3.26E+17
Kr-87	1.71E+17
Kr-88	6.53E+17
Rb-86	1.23E+15
Sr-89	4.93E+16
Sr-90	4.91E+15
Sr-91	4.86E+16
Sr-92	2.86E+16
Y-90	3.47E+14
Y-91	2.26E+15
Y-92	2.19E+16
Y-93	2.16E+15
Zr-95	3.01E+15
Zr-97	2.64E+15
Nb-95	3.05E+15
Mo-99	3.83E+17
Tc-99m	3.45E+17
Ru-103	3.14E+17
Ru-105	1.29E+17
Ru-106	1.10E+17
Rh-105	1.98E+17
Sb-127	5.05E+16
Sb-129	9.14E+16
Te-127	5.08E+16
Te-127m	6.71E+15
Te-129	1.08E+17
Te-129m	2.24E+16
Te-131m	6.44E+16
Te-132	6.61E+17
I-131	5.03E+17
I-132	6.96E+17
I-133	9.39E+17
I-134	8.25E+16
I-135	6.93E+17
Xe-133	3.94E+18
Xe-135	9.85E+17
Cs-134	1.07E+17
Cs-136	3.10E+16
Cs-137	6.22E+16
Ba-139	3.40E+16
Ba-140	1.72E+17
La-140	1.27E+16
La-141	1.66E+15
La-142	6.47E+14
Ce-141	1.59E+16
Ce-143	1.40E+16
Ce-144	1.26E+16
Pr-143	2.76E+15
Nd-147	1.18E+15
Np-239	1.88E+17
Pu-238	4.29E+13
Pu-239	3.66E+12
Pu-240	5.46E+12
Pu-241	1.22E+15
Am-241	2.82E+11
Cm-242	6.77E+13
Cm-244	7.22E+12

******** BEGINNING OF CHANGE CASE 2 USER INPUT ********
********** RELEASE DATA BLOCK **********

* SOURCE TERM NUMBER 3 OF 8

```
       *

  232  RDATNAM2001 'EARLY MEDIUM'

********   RECORD NUMBER   232 REPLACES RECORD NUMBER   123   ********
       *

  233  RDOALARM001   9.18E+03

********   RECORD NUMBER   233 REPLACES RECORD NUMBER   124   ********
  234  RDNUMREL001   1

********   RECORD NUMBER   234 REPLACES RECORD NUMBER   125   ********
  235  RDMAXRIS001   1

********   RECORD NUMBER   235 REPLACES RECORD NUMBER   126   ********
  236  RDREFTIM001   0.0

********   RECORD NUMBER   236 REPLACES RECORD NUMBER   127   ********
  237  RDPLHEAT001   1.07E+06

********   RECORD NUMBER   237 REPLACES RECORD NUMBER   128   ********
  238  RDPLHITE001   30.

********   RECORD NUMBER   238 REPLACES RECORD NUMBER   129   ********
  239  RDPLUDUR001   8.21E+04

********   RECORD NUMBER   239 REPLACES RECORD NUMBER   130   ********
  240  RDPDELAY001   9.22E+03

********   RECORD NUMBER   240 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  241  RDRELFRC001 9.9E-01 1.3E-02 1.2E-02 2.7E-02 8.5E-04 3.0E-02 5.2E-05 3.1E-04
2.0E-02
********   RECORD NUMBER   241 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   2 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   2
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      9.11E+14
Co-60      6.96E+14
Kr-85      3.83E+16
Kr-85m     5.68E+17
Kr-87      4.02E+17
Kr-88      1.22E+18
Rb-86      9.85E+13
Sr-89      2.62E+15
Sr-90      2.61E+14
Sr-91      2.73E+15
```

```
Sr-92      1.85E+15
Y-90       2.33E+13
Y-91       2.08E+14
Y-92       1.14E+15
Y-93       2.12E+14
Zr-95      2.79E+14
Zr-97      2.53E+14
Nb-95      2.83E+14
Mo-99      1.78E+17
Tc-99m     1.60E+17
Ru-103     1.45E+17
Ru-105     6.72E+16
Ru-106     5.07E+16
Rh-105     9.19E+16
Sb-127     9.14E+15
Sb-129     1.86E+16
Te-127     9.18E+15
Te-127m    1.21E+15
Te-129     2.13E+16
Te-129m    4.03E+15
Te-131m    1.18E+16
Te-132     1.20E+17
I-131      4.10E+16
I-132      9.30E+16
I-133      7.83E+16
I-134      1.23E+16
I-135      6.10E+16
Xe-133     6.10E+18
Xe-135     1.37E+18
Cs-134     8.59E+15
Cs-136     2.48E+15
Cs-137     4.98E+15
Ba-139     3.23E+16
Ba-140     1.11E+17
La-140     5.09E+15
La-141     1.77E+14
La-142     8.50E+13
Ce-141     1.64E+15
Ce-143     1.47E+15
Ce-144     1.30E+15
Pr-143     2.55E+14
Nd-147     1.09E+14
Np-239     1.96E+16
Pu-238     4.43E+12
Pu-239     3.78E+11
Pu-240     5.64E+11
Pu-241     1.26E+14
Am-241     2.62E+10
Cm-242     6.29E+12
Cm-244     6.71E+11


******** BEGINNING OF CHANGE CASE   3 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  4 OF 8

       *

  242  RDATNAM2001 'EARLY LOW'

********   RECORD NUMBER   242 REPLACES RECORD NUMBER   123   ********
       *
```

```
  243  RDOALARM001   9.31E+03

********   RECORD NUMBER   243 REPLACES RECORD NUMBER   124   ********
  244  RDNUMREL001   1

********   RECORD NUMBER   244 REPLACES RECORD NUMBER   125   ********
  245  RDMAXRIS001   1

********   RECORD NUMBER   245 REPLACES RECORD NUMBER   126   ********
  246  RDREFTIM001   0.0

********   RECORD NUMBER   246 REPLACES RECORD NUMBER   127   ********
  247  RDPLHEAT001   1.11E+06

********   RECORD NUMBER   247 REPLACES RECORD NUMBER   128   ********
  248  RDPLHITE001   30.

********   RECORD NUMBER   248 REPLACES RECORD NUMBER   129   ********
  249  RDPLUDUR001   8.49E+04

********   RECORD NUMBER   249 REPLACES RECORD NUMBER   130   ********
  250  RDPDELAY001   9.90E+03

********   RECORD NUMBER   250 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  251  RDRELFRC001 2.4E-01 2.0E-03 1.6E-03 2.9E-03 9.0E-05 3.0E-03 5.2E-06 3.1E-05
1.9E-03
********   RECORD NUMBER   251 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   3 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   3
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      9.11E+13
Co-60      6.96E+13
Kr-85      9.29E+15
Kr-85m     1.34E+17
Kr-87      8.79E+16
Kr-88      2.82E+17
Rb-86      1.31E+13
Sr-89      2.78E+14
Sr-90      2.76E+13
Sr-91      2.85E+14
Sr-92      1.87E+14
Y-90       2.43E+12
Y-91       2.08E+13
Y-92       1.22E+14
Y-93       2.09E+13
Zr-95      2.79E+13
Zr-97      2.51E+13
```

```
Nb-95      2.83E+13
Mo-99      1.78E+16
Tc-99m     1.60E+16
Ru-103     1.45E+16
Ru-105     6.52E+15
Ru-106     5.07E+15
Rh-105     9.18E+15
Sb-127     9.80E+14
Sb-129     1.94E+15
Te-127     9.85E+14
Te-127m    1.30E+14
Te-129     2.24E+15
Te-129m    4.32E+14
Te-131m    1.26E+15
Te-132     1.28E+16
I-131      6.31E+15
I-132      1.14E+16
I-133      1.20E+16
I-134      1.63E+15
I-135      9.20E+15
Xe-133     1.48E+18
Xe-135     3.27E+17
Cs-134     1.15E+15
Cs-136     3.31E+14
Cs-137     6.64E+14
Ba-139     2.79E+15
Ba-140     1.05E+16
La-140     5.17E+14
La-141     1.71E+13
La-142     7.81E+12
Ce-141     1.64E+14
Ce-143     1.46E+14
Ce-144     1.30E+14
Pr-143     2.56E+13
Nd-147     1.09E+13
Np-239     1.96E+15
Pu-238     4.43E+11
Pu-239     3.78E+10
Pu-240     5.64E+10
Pu-241     1.26E+13
Am-241     2.62E+09
Cm-242     6.29E+11
Cm-244     6.71E+10


******** BEGINNING OF CHANGE CASE   4 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  5 OF 8

       *

  252  RDATNAM2001 'LATE HIGH'

********   RECORD NUMBER   252 REPLACES RECORD NUMBER   123   ********
       *

  253  RDOALARM001   5.58E+03

********   RECORD NUMBER   253 REPLACES RECORD NUMBER   124   ********
  254  RDNUMREL001   1

********   RECORD NUMBER   254 REPLACES RECORD NUMBER   125   ********
```

```
  255  RDMAXRIS001   1

********   RECORD NUMBER   255 REPLACES RECORD NUMBER   126   ********
  256  RDREFTIM001   0.5

********   RECORD NUMBER   256 REPLACES RECORD NUMBER   127   ********
  257  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   257 REPLACES RECORD NUMBER   128   ********
  258  RDPLHITE001   30.

********   RECORD NUMBER   258 REPLACES RECORD NUMBER   129   ********
  259  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   259 REPLACES RECORD NUMBER   130   ********
  260  RDPDELAY001   7.38E+04

********   RECORD NUMBER   260 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  261  RDRELFRC001 9.9E-01 1.2E-01 2.3E-02 4.8E-03 2.1E-04 3.7E-03 1.3E-05 1.2E-04
9.1E-04
********   RECORD NUMBER   261 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   4 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   4
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      1.11E+14
Co-60      8.58E+13
Kr-85      3.83E+16
Kr-85m     5.52E+15
Kr-87      3.29E+10
Kr-88      8.17E+14
Rb-86      1.80E+14
Sr-89      6.37E+14
Sr-90      6.45E+13
Sr-91      7.59E+13
Sr-92      2.16E+11
Y-90       2.21E+13
Y-91       5.30E+13
Y-92       4.34E+12
Y-93       6.78E+12
Zr-95      6.89E+13
Zr-97      1.85E+13
Nb-95      7.08E+13
Mo-99      1.61E+16
Tc-99m     1.54E+16
Ru-103     1.75E+16
Ru-105     7.74E+13
Ru-106     6.24E+15
Rh-105     6.95E+15
```

```
Sb-127     1.30E+15
Sb-129     2.71E+13
Te-127     1.39E+15
Te-127m    2.15E+14
Te-129     4.85E+14
Te-129m    7.01E+14
Te-131m    1.05E+15
Te-132     1.63E+16
I-131      3.40E+17
I-132      1.69E+16
I-133      2.67E+17
I-134      5.97E+06
I-135      2.44E+16
Xe-133     5.25E+18
Xe-135     2.23E+17
Cs-134     1.64E+16
Cs-136     4.45E+15
Cs-137     9.54E+15
Ba-139     4.25E+08
Ba-140     4.72E+15
La-140     2.13E+15
La-141     2.25E+11
La-142     3.03E+07
Ce-141     6.19E+14
Ce-143     3.03E+14
Ce-144     5.01E+14
Pr-143     8.69E+13
Nd-147     2.53E+13
Np-239     5.26E+15
Pu-238     1.72E+12
Pu-239     1.47E+11
Pu-240     2.18E+11
Pu-241     4.90E+13
Am-241     6.83E+09
Cm-242     1.56E+12
Cm-244     1.68E+11


******** BEGINNING OF CHANGE CASE   5 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  6 OF 8

       *

  262  RDATNAM2001 'LATE MEDIUM'

********   RECORD NUMBER   262 REPLACES RECORD NUMBER   123   ********
       *

  263  RDOALARM001   7.17E+03

********   RECORD NUMBER   263 REPLACES RECORD NUMBER   124   ********
  264  RDNUMREL001   1

********   RECORD NUMBER   264 REPLACES RECORD NUMBER   125   ********
  265  RDMAXRIS001   1

********   RECORD NUMBER   265 REPLACES RECORD NUMBER   126   ********
  266  RDREFTIM001   0.5

********   RECORD NUMBER   266 REPLACES RECORD NUMBER   127   ********
  267  RDPLHEAT001   9.20E+05
```

```
********   RECORD NUMBER   267 REPLACES RECORD NUMBER   128   ********
  268  RDPLHITE001   30.

********   RECORD NUMBER   268 REPLACES RECORD NUMBER   129   ********
  269  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   269 REPLACES RECORD NUMBER   130   ********
  270  RDPDELAY001   7.70E+04

********   RECORD NUMBER   270 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  271  RDRELFRC001 8.2E-01 1.5E-02 4.3E-03 1.5E-03 8.0E-05 1.4E-03 5.1E-06 4.7E-05
3.5E-04
********   RECORD NUMBER   271 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   5 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   5
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      4.20E+13
Co-60      3.25E+13
Kr-85      3.17E+16
Kr-85m     3.99E+15
Kr-87      1.68E+10
Kr-88      5.45E+14
Rb-86      3.36E+13
Sr-89      2.43E+14
Sr-90      2.46E+13
Sr-91      2.71E+13
Sr-92      6.55E+10
Y-90       8.59E+12
Y-91       2.08E+13
Y-92       1.40E+12
Y-93       2.50E+12
Zr-95      2.70E+13
Zr-97      7.02E+12
Nb-95      2.78E+13
Mo-99      6.02E+15
Tc-99m     5.79E+15
Ru-103     6.63E+15
Ru-105     2.55E+13
Ru-106     2.36E+15
Rh-105     2.59E+15
Sb-127     4.03E+14
Sb-129     7.35E+12
Te-127     4.33E+14
Te-127m    6.72E+13
Te-129     1.50E+14
Te-129m    2.19E+14
Te-131m    3.22E+14
```

```
Te-132     5.07E+15
I-131      4.24E+16
I-132      5.22E+15
I-133      3.23E+16
I-134      3.70E+05
I-135      2.78E+15
Xe-133     4.27E+18
Xe-135     1.17E+17
Cs-134     3.07E+15
Cs-136     8.31E+14
Cs-137     1.78E+15
Ba-139     1.05E+08
Ba-140     1.81E+15
La-140     8.36E+14
La-141     7.54E+10
La-142     7.97E+06
Ce-141     2.42E+14
Ce-143     1.16E+14
Ce-144     1.96E+14
Pr-143     3.42E+13
Nd-147     9.90E+12
Np-239     2.04E+15
Pu-238     6.72E+11
Pu-239     5.76E+10
Pu-240     8.55E+10
Pu-241     1.92E+13
Am-241     2.68E+09
Cm-242     6.13E+11
Cm-244     6.58E+10


******** BEGINNING OF CHANGE CASE   6 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  7 OF 8

       *

  272  RDATNAM2001 'LATE LOW'

********   RECORD NUMBER   272 REPLACES RECORD NUMBER   123   ********
       *

  273  RDOALARM001   2.19E+04

********   RECORD NUMBER   273 REPLACES RECORD NUMBER   124   ********
  274  RDNUMREL001   1

********   RECORD NUMBER   274 REPLACES RECORD NUMBER   125   ********
  275  RDMAXRIS001   1

********   RECORD NUMBER   275 REPLACES RECORD NUMBER   126   ********
  276  RDREFTIM001   0.5

********   RECORD NUMBER   276 REPLACES RECORD NUMBER   127   ********
  277  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   277 REPLACES RECORD NUMBER   128   ********
  278  RDPLHITE001   30.

********   RECORD NUMBER   278 REPLACES RECORD NUMBER   129   ********
  279  RDPLUDUR001   8.64E+04
```

```
********   RECORD NUMBER   279 REPLACES RECORD NUMBER   130   ********
  280  RDPDELAY001   9.13E+04

********   RECORD NUMBER   280 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  281  RDRELFRC001 7.0E-01 1.1E-03 7.9E-04 1.2E-03 8.7E-05 3.5E-06 2.6E-06 2.4E-05
7.4E-05
********   RECORD NUMBER   281 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   6 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   6
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      1.05E+11
Co-60      8.12E+10
Kr-85      2.71E+16
Kr-85m     1.84E+15
Kr-87      1.64E+09
Kr-88      1.76E+14
Rb-86      6.14E+12
Sr-89      2.63E+14
Sr-90      2.67E+13
Sr-91      2.20E+13
Sr-92      2.58E+10
Y-90       9.44E+12
Y-91       1.10E+13
Y-92       7.15E+11
Y-93       9.71E+11
Zr-95      1.38E+13
Zr-97      3.04E+12
Nb-95      1.42E+13
Mo-99      1.44E+13
Tc-99m     1.39E+13
Ru-103     1.65E+13
Ru-105     3.43E+10
Ru-106     5.90E+12
Rh-105     5.98E+12
Sb-127     3.13E+14
Sb-129     3.11E+12
Te-127     3.38E+14
Te-127m    5.37E+13
Te-129     1.17E+14
Te-129m    1.75E+14
Te-131m    2.35E+14
Te-132     3.91E+15
I-131      3.09E+15
I-132      4.03E+15
I-133      2.08E+15
I-134      1.17E+03
I-135      1.34E+14
Xe-133     3.56E+18
```

```
Xe-135     6.83E+16
Cs-134     5.65E+14
Cs-136     1.51E+14
Cs-137     3.28E+14
Ba-139     3.00E+06
Ba-140     3.79E+14
La-140     1.95E+14
La-141     1.91E+10
La-142     6.81E+05
Ce-141     1.23E+14
Ce-143     5.46E+13
Ce-144     1.00E+14
Pr-143     1.78E+13
Nd-147     5.00E+12
Np-239     9.91E+14
Pu-238     3.43E+11
Pu-239     2.94E+10
Pu-240     4.37E+10
Pu-241     9.79E+12
Am-241     1.37E+09
Cm-242     3.13E+11
Cm-244     3.35E+10


******** BEGINNING OF CHANGE CASE   7 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  8 OF 8

       *

  282  RDATNAM2001 'LATE LOWLOW'

********   RECORD NUMBER   282 REPLACES RECORD NUMBER   123   ********
       *

  283  RDOALARM001   2.56E+04

********   RECORD NUMBER   283 REPLACES RECORD NUMBER   124   ********
  284  RDNUMREL001   1

********   RECORD NUMBER   284 REPLACES RECORD NUMBER   125   ********
  285  RDMAXRIS001   1

********   RECORD NUMBER   285 REPLACES RECORD NUMBER   126   ********
  286  RDREFTIM001   0.5

********   RECORD NUMBER   286 REPLACES RECORD NUMBER   127   ********
  287  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   287 REPLACES RECORD NUMBER   128   ********
  288  RDPLHITE001   30.

********   RECORD NUMBER   288 REPLACES RECORD NUMBER   129   ********
  289  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   289 REPLACES RECORD NUMBER   130   ********
  290  RDPDELAY001   1.13E+05

********   RECORD NUMBER   290 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
```

```
  291  RDRELFRC001 9.1E-01 8.1E-04 7.0E-04 7.6E-04 3.6E-05 2.1E-06 1.1E-06 1.2E-05
3.3E-05
********   RECORD NUMBER   291 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   7 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   7
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	6.27E+10
Co-60	4.87E+10
Kr-85	3.52E+16
Kr-85m	9.42E+14
Kr-87	8.00E+07
Kr-88	5.27E+13
Rb-86	5.39E+12
Sr-89	1.09E+14
Sr-90	1.11E+13
Sr-91	5.88E+12
Sr-92	2.28E+09
Y-90	4.36E+12
Y-91	4.66E+12
Y-92	9.41E+10
Y-93	2.72E+11
Zr-95	5.80E+12
Zr-97	1.00E+12
Nb-95	5.99E+12
Mo-99	8.14E+12
Tc-99m	7.83E+12
Ru-103	9.87E+12
Ru-105	8.02E+09
Ru-106	3.54E+12
Rh-105	3.19E+12
Sb-127	1.89E+14
Sb-129	7.49E+11
Te-127	2.06E+14
Te-127m	3.40E+13
Te-129	7.24E+13
Te-129m	1.10E+14
Te-131m	1.29E+14
Te-132	2.35E+15
I-131	2.23E+15
I-132	2.42E+15
I-133	1.25E+15
I-134	7.35E+00
I-135	5.26E+13
Xe-133	4.48E+18
Xe-135	5.59E+16
Cs-134	5.00E+14
Cs-136	1.32E+14
Cs-137	2.90E+14
Ba-139	6.46E+04
Ba-140	1.67E+14
La-140	9.47E+13

```
La-141     2.79E+09
La-142     1.92E+04
Ce-141     6.13E+13
Ce-143     2.41E+13
Ce-144     5.01E+13
Pr-143     8.24E+12
Nd-147     2.08E+12
Np-239     4.60E+14
Pu-238     1.72E+11
Pu-239     1.47E+10
Pu-240     2.18E+10
Pu-241     4.89E+12
Am-241     5.92E+08
Cm-242     1.32E+11
Cm-244     1.42E+10


USER INPUT IS READ FROM UNIT 25
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE

       *

    1  MIEANAM1001 'EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES'

    2  DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)

       *

       *             ORGNAM         ORGFLG

       *

    3  MIORGDEF001  'A-SKIN'        .TRUE.

    4  MIORGDEF002  'A-RED MARR'    .TRUE.

    5  MIORGDEF003  'A-LUNGS'       .TRUE.

    6  MIORGDEF004  'A-THYROIDH'    .TRUE.

    7  MIORGDEF005  'A-STOMACH'     .TRUE.

    8  MIORGDEF006  'A-LOWER LI'    .FALSE.  (does not contribute to early
fatalities)
    9  MIORGDEF007  'L-EDEWBODY'    .TRUE.

   10  MIORGDEF008  'L-RED MARR'    .TRUE.

   11  MIORGDEF009  'L-BONE SUR'    .TRUE.

   12  MIORGDEF010  'L-BREAST'      .TRUE.

   13  MIORGDEF011  'L-LUNGS'       .TRUE.

   14  MIORGDEF012  'L-THYROID'     .TRUE.
```

```
15  MIORGDEF013  'L-LOWER LI'    .TRUE.
16  MIORGDEF014  'L-BLAD WAL'    .TRUE.
17  MIORGDEF015  'L-LIVER'       .FALSE.
18  MIORGDEF016  'L-THYROIDH'    .TRUE.
    *
    * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
    *
19  MIENDAT2001  .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
    *
    * DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
    *                                2  *  WIND-SHIFT WITH ROTATION
    *                                3  *  WIND-SHIFT WITHOUT ROTATION
    *
20  MIIPLUME001  2
    *
    * NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
    *
21  MINUMFIN001  7    (3, 5 OR 7 ALLOWED)
    *
    * LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
    *
22  MIIPRINT001  0
    *
    * LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
    * BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
    *
    *             RISBIN
    *
23  MIRISCAT001   .FALSE.
    *
    * FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
```

```
      *
   24 MIOVRRID001  .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
*****************************************************************************
      * POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
      *
   25 PDPOPFLG001  FILE
      *
      *PDPOPFLG001  UNIFORM
      *PDIBEGIN001  1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
      *PDPOPDEN001  50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))
*****************************************************************************
      * SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
      *
      * THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
      * ONE FOR EACH TYPE OF ACTIVTY:
      *
      * ACTIVITY TYPE:
      *     1 - EVACUEES WHILE MOVING
      *     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
      *     3 - SHELTERED ACTIVITY
      *
      * CLOUD SHIELDING FACTOR
      *
      *    SITE        GG   PB   SEQ  SUR  ZION
      *    SHELTERING  0.7  0.5  0.65 0.6  0.5
      *
      *            EVACUEES  NORMAL  SHELTER
      *
   26 SECSFACT001      1.     0.75     0.6   *  SURRY SHELTERING VALUE
      *
      * PROTECTION FACTOR FOR INHALATION
```

```
    *
27  SEPROTIN001      1.     0.41      0.33  * VALUES FOR NORMAL ACTIVITY AND
    *                                          SHELTERING SELECTED BY NRC STAFF
    *
    * BREATHING RATE (CUBIC METERS PER SECOND)
    *
28  SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
    *
    * SKIN PROTECTION FACTOR
    *
29  SESKPFAC001  1.0      0.41     0.33    * VALUES FOR NORMAL ACTIVITY AND
    *                                         SHELTERING SELECTED BY NRC STAFF
    *
    * GROUND SHIELDING FACTOR
    *
    *    SITE        GG   PB   SEQ  SUR  ZION
    *    SHELTERING  0.25 0.1  0.2  0.2  0.1
    *
30  SEGSHFAC001      0.5    0.4    0.2   * VALUE FOR NORMAL ACTIVITY SELECTED BY
    *                                        NRC STAFF
    *
    * RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
    *
    *   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
    *   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
    *   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
    *   USED IN CHRONC.
    *
31  SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
    *
    * RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
```

```
     *
32   SERESHAF001   1.82E5    (2.11 DAYS)
*****************************************************************************
     * EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
     *
     * SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
     *
33   EZEANAM2001  'NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE'
     *
     * THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
     * YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
     *
34   EZWTNAME001  'PEOPLE'
     *
     * WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
     *
35   EZWTFRAC001  1.00
     *
     * LAST RING IN THE MOVEMENT ZONE
     *
36   EZLASMOV001     0   (A ZERO TURNS OFF THE EVACUATION MODEL)
     *
     ********************************************************************
     * SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
     *                                         STORED IN /INPSRZ/, /RELOCA/
     *
     * DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
     *
37   SRENDEMP001  604800.   (ONE WEEK)
     *
     * CRITICAL ORGAN FOR RELOCATION DECISIONS
```

```
    *
38  SRCRIORG001 'L-EDEWBODY'
    *
    * HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
    *
39  SRTIMHOT001  43200.    (ONE-HALF DAY)
    *
    * NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
    *
40  SRTIMNRM001  86400.    (ONE DAY)
    *
    * HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
    *
41  SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
    *
    * NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
    *
42  SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
    * EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
    *
    * NUMBER OF EARLY FATALITY EFFECTS
    *
43  EFNUMEFA001   2
    *
    *            ORGNAM       EFFACA   EFFACB   EFFTHR
    *
44  EFATAGRP001 'A-RED MARR'      3.8      5.0    1.5
45  EFATAGRP002 'A-LUNGS'        10.0      7.0    5.0
*******************************************************************************
    * EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
```

```
*
* NUMBER OF EARLY INJURY EFFECTS
*
EINUMEIN001  7
*
*            EINAME           ORGNAM   EISUSC EITHRE EIFACA EIFACB
*
EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3
*******************************************************************************
* ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
*
* NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
*
LCNUMACA001   7
*
* THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
*
LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
*
* DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
*
LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
*
*            ACNAME     ORGNAM  ACSUSC DOSEFA DOSEFB CFRISK   CIRISK  DDREFA
*
```

```
 57  LCANCERS001 'LEUKEMIA' 'L-RED MARR'  1.0   1.0   0.0   9.70E-3   0.0     2.0
 58  LCANCERS002 'BONE'     'L-BONE SUR'  1.0   1.0   0.0   9.00E-4   0.0     2.0
 59  LCANCERS003 'BREAST'   'L-BREAST'    1.0   1.0   0.0   5.40E-3   1.7E-2  1.0
 60  LCANCERS004 'LUNG'     'L-LUNGS'     1.0   1.0   0.0   1.55E-2   0.0     2.0
 61  LCANCERS005 'THYROID'  'L-THYROIDH'  1.0   1.0   0.0   7.20E-4   7.2E-3  1.0
 62  LCANCERS006 'GI'       'L-LOWER LI'  1.0   1.0   0.0   3.36E-2   0.0     2.0
 63  LCANCERS007 'OTHER'    'L-EDEWBODY'  1.0   1.0   0.0   2.76E-2   0.0     2.0

*******************************************************************************
     * RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
     * TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
 64  TYPE1NUMBER    4
     *
 65  TYPE1OUT001    'ERL FAT/TOTAL'                1  15   NOCCDF (0 TO 50 MILES)
 66  TYPE1OUT009    'CAN FAT/TOTAL'                1  15   NOCCDF
 67  TYPE1OUT019    'CAN FAT/TOTAL'                1  11   NOCCDF (0 TO 10 MILES)
 68  TYPE1OUT020    'ERL FAT/TOTAL'                1  11          (0 TO 10 MILES)

*******************************************************************************
     * RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
     * FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
 69  TYPE2NUMBER  0
     *
     *            FATALITY RISK THRESHOLD
     *
     *TYPE2OUT001  0.
```

```
*******************************************************************************
      * RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
      * NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   70 TYPE3NUMBER  0
      *
      *               ORGAN NAME   DOSE THRESHOLD (Sv)
      *
      *TYPE3OUT001    'A-RED MARR'        1.5
      *TYPE3OUT002    'A-LUNGS'           5.0
      *TYPE3OUT003    'L-EDEWBODY'        0.05

*******************************************************************************
      * RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
      * 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
      *
      * POSSIBLE TYPES OF EFFECTS ARE:
      *
      *   'ERL FAT/TOTAL'
      *   'ERL INJ/INJURY NAME'
      *   'CAN FAT/CANCER NAME'
      *   'CAN FAT/TOTAL'
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   71 TYPE4NUMBER  3
      *
      *            RADIAL INDEX   TYPE OF EFFECT
      *
   72 TYPE4OUT001       1         'ERL FAT/TOTAL'
```

```
   73  TYPE4OUT002       2         'ERL FAT/TOTAL'
   74  TYPE4OUT003       3         'ERL FAT/TOTAL'

*****************************************************************************
       * RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
       *
       * TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   75  TYPE5NUMBER     1
       *
       *             ORGAN      I1DIS5     I2DIS5
       *
   76  TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)

*****************************************************************************
       * RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
       *
       * CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS
FOLLOWS:
       *
       *  PATHWAY NAME:
       *    'CLD'     - CLOUDSHINE
       *    'GRD'     - GROUNDSHINE
       *    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
       *    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE
CLOUD
       *    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
       *    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
       *    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
       *    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
```

```
*
77  TYPE6NUMBER     0
*
*             ORGNAM        PATHNM      I1DIS6   I2DIS6
*
*TYPE6OUT001  'A-RED MARR'    'TOT ACU'      1       19     (0-50 MILES)
*TYPE6OUT002  'A-LUNGS'       'TOT ACU'      1       19     (0-50 MILES)
*TYPE6OUT003  'L-EDEWBODY'    'TOT LIF'      1       26     (0-1000 MILES)

*******************************************************************************
* RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
*
* CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
78  TYPE7NUMBER   0
*
*                    NAME           I1DIS7       I2DIS7
*
*TYPE7OUT001     'ERL FAT/TOTAL'        1           19       (0-50 MILES)
*TYPE7OUT002     'CAN FAT/TOTAL'        1           26       (0-1000 MILES)

*******************************************************************************
* RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
*
* POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
79  TYPE8NUMBER   2
*
*                NAME       I1DIS8  I2DIS8
```

```
      *
   80 TYPE8OUT001 'ERL FAT/TOTAL'   1       3     NOCCDF
   81 TYPE8OUT002 'CAN FAT/TOTAL'   1      11     NOCCDF  (0-10 MILES)

*******************************************************************************
      * RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/
      *
      * peak dose to a given organ
      *
      *            NUMA
   82 TYPEANUMBER   0
      *
      *              ORGNAM    I1DISA  I2DISA
      *TYPEAOUT001 'L-EDEWBODY'  1       15
      .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  341
NUMBER OF BLANK OR COMMENT RECORDS READ         =  258
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   82
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   82
*******************************************************************************
****************


The list of defined organs is as follows (A- is ACUTE and L- is LIFETIME):
   A-SKIN
   A-RED MARR
   A-LUNGS
   A-THYROIDH
   A-STOMACH
   L-EDEWBODY
   L-RED MARR
   L-BONE SUR
   L-BREAST
   L-LUNGS
   L-THYROID
   L-LOWER LI
   L-BLAD WAL
   L-THYROIDH
Am using a DOSFAC/DOSFAC2/IDCF2 dose factor file
```

```
READING FROM A DOSE CONVERSION FILE WITH THE FOLLOWING HEADER:
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1

NO EVACUATION REQUESTED


USING THE FOLLOWING SITE DATA FILE:

MACCS2 Site Data File for Indian Point Energy Center
SITE FILE
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   7 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   1 WATERSHEDS
  21 ECONOMIC REGIONS
 SPATIAL DISTANCES     KILOMETERS
    0.3219    1.6093    3.2187    4.8280    6.4374    8.0467    9.6561   11.2654
   12.8748   14.4841   16.0935   32.1869   48.2804   64.3739   80.4674
 POPULATION
        6.        0.      271.     2059.     2501.      909.      931.     1223.
     1389.     1503.     1696.    22955.    30654.    39620.    51057.0
       16.        7.      170.     1943.     2912.     2051.     1177.     1388.
     1577.     1798.     1913.    28140.    39917.    56226.    67213.0
       17.      193.      883.     2131.     2964.     3843.     3910.     3059.
     2464.     1998.     1915.    29419.    53692.    62559.    41261.0
       17.      364.     1275.     2132.     2977.     3453.     4507.     5282.
     6140.     6960.     7279.    74856.   119073.   152175.   176338.0
       17.      390.     1218.     2138.     2934.     3792.     4424.     5513.
     5587.     7201.     8076.   118335.   156720.   200581.   208394.0
       17.      409.     1256.     2136.     2970.     3592.     3698.     3857.
     5734.     6783.     7409.   121515.   144267.    54180.    34361.0
       17.      410.     1274.     2138.     2872.     3808.     4537.     5279.
     6284.     7194.     8060.   111946.    87735.   236426.   379990.0
       17.      360.     1268.     1645.      882.      495.       15.     1442.
      948.     1911.     3214.    98326.   481703.  1380249.  1218170.0
       17.      400.      701.      246.      124.      620.     1538.     3253.
     4129.     4455.     5138.   135211.  1164596.  3732339.  3164306.0
       17.      377.      562.      500.     1700.     2882.     3544.     4187.
     4873.     5517.     6159.   202605.   395389.   922649.  1034467.0
       17.      217.      187.     1566.     2274.     2916.     3574.     4188.
     4361.     5358.     6138.   183372.   276902.   197362.   246076.0
        9.        0.      620.     1623.     2197.     2924.     3550.     4014.
     4196.     4255.     4335.    64428.   209197.   109102.    85849.0
        3.        0.      855.     1602.     2267.     2815.     2368.     1787.
     1423.     1775.     2030.    32026.    50974.    61380.    57384.0
        2.        0.      938.     1624.     2245.     1341.     1135.     1419.
     1505.     1756.     2071.    32528.    54577.    57977.    29719.0
        2.       45.      974.     1589.     1933.      972.     1140.     1351.
     1541.     1781.     2093.    32572.    54557.    24046.    22317.0
        3.       50.      809.     1051.     1587.      740.     1204.     1407.
     1620.     1787.     2028.    31660.    32569.    27599.    34374.0
 LAND FRACTION
 0.37 0.00 0.23 0.96 0.99 0.94 0.78 0.87 0.85 0.81 0.82 0.83 0.94 0.94 0.93
 0.92 0.02 0.13 0.91 0.97 0.98 1.00 1.00 0.98 0.99 0.94 0.95 0.99 0.99 0.98
 1.00 0.47 0.69 1.00 0.99 1.00 0.98 0.96 0.95 1.00 0.94 0.91 0.94 0.95 0.96
 1.00 0.89 0.99 1.00 0.99 0.90 0.96 0.95 0.96 0.96 0.97 0.91 0.92 0.95 0.98
 1.00 0.95 0.95 1.00 0.98 0.99 0.94 0.99 0.87 0.99 0.99 0.92 0.97 0.97 0.78
 1.00 1.00 0.98 1.00 0.99 0.93 0.79 0.69 0.89 0.93 0.91 0.97 0.95 0.27 0.12
 1.00 1.00 0.99 1.00 0.96 0.99 0.96 0.95 0.98 0.99 0.99 0.93 0.53 0.48 0.98
 1.00 0.88 0.99 0.77 0.29 0.13 0.00 0.26 0.16 0.30 0.43 0.77 0.70 0.79 0.82
 1.00 0.97 0.55 0.12 0.05 0.21 0.43 0.77 0.85 0.81 0.83 0.84 0.87 0.81 0.59
```

```
 1.00 0.92 0.44 0.31 0.75 0.99 0.99 0.99 1.00 1.00 1.00 0.99 0.99 0.93 0.92
 1.00 0.53 0.18 0.96 1.00 1.00 1.00 0.99 0.89 0.97 0.99 0.98 0.93 0.90 0.94
 0.52 0.00 0.64 1.00 0.97 1.00 0.99 0.95 0.91 0.92 0.94 0.94 0.93 0.97 0.94
 0.19 0.00 0.88 0.99 1.00 1.00 1.00 0.98 0.86 0.95 0.97 0.97 0.98 0.97 0.97
 0.13 0.00 0.96 1.00 1.00 0.99 0.94 0.99 0.91 0.94 0.99 0.98 0.99 0.97 0.95
 0.14 0.14 1.00 0.98 0.99 0.98 0.94 0.94 0.93 0.95 1.00 0.98 0.99 0.99 0.96
 0.20 0.16 0.83 0.57 0.65 0.75 0.99 0.98 0.98 0.95 0.97 0.96 0.96 0.99 0.96
 REGION INDEX
2021202020141414141314060606060
2021202020141414141414140606060
2020202020202014141414140603030
2020202020202020202020200101040
2020202020202020202020200101040
2020202020202020202020200101170
2020202020202020202020200112170
2020202020202120202020202012120
2020202021161616161616160215110
2020201616161616161616020205100
2020161616161616161616160807070
2021161616161616161616130809090
2021161616161313131313131309090
2021161616131313131313131313180
2016161616131313131313131318180
2016161620131313131313131919190
 WATERSHED INDEX
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 CROP SEASON AND SHARE
   1 PASTURE               90. 270.  0.0162
   2 STORED FORAGE        150. 240.  0.0480
   3 GRAINS               150. 240.  0.0079
   4 GRN LEAFY VEGETABLES 150. 240.  0.0005
   5 OTHER FOOD CROPS     150. 240.  0.0036
   6 LEGUMES AND SEEDS    150. 240.  0.0002
   7 ROOTS AND TUBERS     150. 240.  0.0018
 WATERSHED DEFINITION  -- INITIAL AND ANNUAL WASHOFF AND INGESTION FACTORS
   1 Sr-89                           5.00E-06
   2 Sr-90                           5.00E-06
   3 Cs-134                          5.00E-06
   4 Cs-137                          5.00E-06
 REGIONAL ECONOMIC DATA
  01 FAIRFIELD      0.032 .008    5831.0   66592.0  287881.0
  02 BERGEN         0.009 .000   14568.0  124496.0  262186.0
  03 LITCHFIELD     0.159 .371     795.0   22373.0  186016.0
  04 NEWHAVEN       0.067 .029    5439.0   36942.0  192427.0
  05 ESSEX          0.002 .000   11903.0  120139.0  197400.0
  06 DUTCHESS       0.219 .207     698.0   16206.0  169417.0
  07 MORRIS         0.057 .006    6005.0   67365.0  277661.0
  08 PASSAIC        0.013 .000    9836.0   81944.0  161864.0
```

```
  09 SUSSEX         0.226 .311     483.0   18496.0  165741.0
  10 UNION          0.003 .000   91646.0  243939.0  209708.0
  11 KINGS          0.000 .000       0.0       0.0  123701.0
  12 NASSAU         0.006 .000   18237.0   88422.0  239932.0
  13 ORANGE         0.207 .288    1516.0   13148.0  148873.0
  14 PUTNAM         0.045 .000     892.0   24525.0  180274.0
  15 QUEENS         0.000 .000       0.0       0.0  226728.0
  16 ROCKLAND       0.011 .047    6365.0   65755.0  203359.0
  17 SUFFOLK        0.058 .000   14567.0   54566.0  192471.0
  18 SULLIVAN       0.103 .233    1466.0    7911.0  139374.0
  19 ULSTER         0.116 .043    1019.0    9908.0  138739.0
  20 WESTCHESTR     0.036 .009    2206.0   39116.0  263389.0
  21 WATER          0.000 .000       0.0       0.0       0.0
POPULATION

>>The Record Identifier TYPEBNUMBER was not found:
>>Type B results not being generated



USER INPUT IS READ FROM UNIT 26
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE

       *

    1  CHCHNAME001 'CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model'

*******************************************************************************

       * EMERGENCY RESPONSE COST DATA BLOCK

       *

       * DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)

       *

    2  CHEVACST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

       *

       * DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)

       *

    3  CHRELCST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

*******************************************************************************

       * LONG TERM PROTECTIVE ACTION DATA BLOCK

       *
```

```
      * Duration of the intermediate phase period--at version 1.11c TMIPND is no
      * longer processed.  The new input variable DUR_INTPHAS is the period's
      * duration, not the time after plume arrival at which the period ends.
      *
    4 DUR_INTPHAS   0.0    (in seconds)   (no intermediate phase)
      *
      * LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
      * PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
      *
    5 CHTMPACT001   1.58E8             (5 YEARS)
      *
      * DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
      *
    6 CHDSCRTI001   1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
      *
      * DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
      *
    7 CHDSCRLT001    0.04
      *
      * CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
      *
    8 CHCRTOCR001 'L-EDEWBODY'
      *
      * Long Term Exposure Period    Previously permanently set to:
      *    one million years = 3.15 E13 seconds
      *    MACCS2 allowable range is 3.15E7 to 1.E10
      *
    9 CHEXPTIM001    9.45E8
*******************************************************************************
      * DECONTAMINATION PLAN DATA BLOCK
      *
```

```
     * NUMBER OF LEVELS OF DECONTAMINATION
     *
  10 CHLVLDEC001  2
     *
     * DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
     *  (SECONDS)
     *
  11 CHTIMDEC001   5.184E6  1.0368E7    (60, 120 DAYS)
     *
     * DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF
DECONTAMINATION
     *
  12 CHDSRFCT001   3.      15.
     *
     * COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  13 CHCDFRM0001   972.   2160.
     *
     * COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  14 CHCDNFRM001   5184.   13824.
     *
     * FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  15 CHFRFDL0001  .3      .35
     *
     * FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  16 CHFRNFDL001  .7      .5
```

```
      *
      * FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   17 CHTFWKF0001  .10     .33
      *
      * FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   18 CHTFWKNF001  .33     .33
      *
      * AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
      *
   19 CHDLBCST001   60480.
*******************************************************************************
      * INTERDICTION COST DATA BLOCK
      *
      * DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
      *
   20 CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER
YEAR)
      * THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
      *
   21 CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * POPULATION RELOCATION COST (DOLLARS/PERSON):
      *  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
      *  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
      *
   22 CHPOPCST001   8640.
```

```
*******************************************************************************
       * GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
       *
       * NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
       *
   23  CHNGWTRM001   2
       *
       * GROUNDSHINE WEATHERING COEFFICIENTS
       *
   24  CHGWCOEF001   0.5    0.5            (JON HELTON)
       *
       * HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
       *
   25  CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*******************************************************************************
       * RESUSPENSION WEATHERING DEFINITION DATA BLOCK
       *
       * NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
       *
   26  CHNRWTRM001    3
       *
       * RESUSPENSION CONCENTRATION COEFFICIENTS   (/ METER)
       *  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
       *
   27  CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
       *
       * HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
       *
   28  CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*******************************************************************************
```

```
     * SITE REGION DESCRIPTION DATA BLOCK
     *
     * FRACTION OF AREA THAT IS LAND IN THE REGION
     *
  29 CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
     *
  30 CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
     *  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN
FARMS)
     *
  31 CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
     *  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME
CONSUMPTION)
     *
  32 CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * VALUE OF FARM WEALTH (DOLLARS/HECTARE)
     *  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
     *
  33 CHVALWF0001    50071.
     *
     * FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
     *
  34 CHFRFIM0001   0.25
     *
     * NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
     *  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
```

```
*  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
*
35  CHVALWNF001    208838.
*
* FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
*
36  CHFRNFIM001   0.8
*******************************************************************************
37  CHFDPATH001 'NEW'
*
* name of the COMIDA2 binary output file
*
38  BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
*
* Dose limits triggering first year crop disposal of the separate
* milk and non-milk components of the diet, corresponding in purpose,
* more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
*
* For NUREG-1150 calculations, the maximum allowable ground concentrations
for
* production of milk and non-milk crops contaminated by an accident occurring
* in the growing season were derived based on an assumed maximum allowable
* dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
* reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
* the prior results, it is being assumed, for simplicity, that milk and
* non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
* effective dose limit used in NUREG-1150 is equally split between milk and
* non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
* thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
* portions of the diet.
*
*             effective     thyroid  (doses in sieverts)
39  DOSEMILK001    0.025          0.075
```

```
40  DOSEOTHR001    0.025          0.075
    *
    * Annual dose limits for the subsequent year's (i.e., after the first year)
    * interdiction of BOTH the milk and non-milk (combined) components of the
diet
    *
    * Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
    * an ingestion dose integrated from zero to infinity.  It is not possible to
    * translate those parameter values into corresponding annual dose limits, as
is
    * required by the COMIDA2-based food model.  The "total" dose limits used in
    * NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are
used
    * here as annual dose limits for interdiction of food production in years the
    * years subsequent to the accident.
    *
    *             effective     thyroid  (doses in sieverts)
41  DOSELONG001    0.005          0.015
    *
    * NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
    *
42  CHNUMWPI001    4
    *
    * TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
    *
    * IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
    *  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
    *
    *                        INITIAL     ANNUAL    INGESTION FACTOR
    *             WATER      WASHOFF     WASHOFF    ((Bq INGESTED)/
    *            NUCLIDE     FRACTION     RATE       (Bq IN WATER))
    *
    *             NAMWPI      WSHFRI      WSHRTA         WINGF
43  CHWTRISO001   Sr-89        0.01       0.004          5.0E-6
```

```
   44  CHWTRISO002   Sr-90        0.01       0.004          5.0E-6
   45  CHWTRISO003   Cs-134       0.005      0.001          5.0E-6
   46  CHWTRISO004   Cs-137       0.005      0.001          5.0E-6

*******************************************************************************
       * SPECIAL OPTIONS DATA BLOCK
       *
       * DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING
ON!!
       *          KSWDSC
       *
   47  CHKSWTCH001   0

*******************************************************************************
       * DEFINE THE TYPE 9 RESULTS
       *
       * LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
       *
   48  TYPE9NUMBER   1      (UP TO 10 ALLOWED)
       *
       *              ORGNAM        INNER      OUTER
       *
   49  TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)

*******************************************************************************
       * ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
       *
   50  TYP10NUMBER   1      (UP TO 10 ALLOWED)
```

```
       *
       *               INNER      OUTER
       *
   51  TYP10OUT001      1          15    (0-50 MILES)

*****************************************************************************
       * DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
       *
       * SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
       * A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE
OUTPUT.
       *
   52  TYP11FLAG11  .FALSE.

*****************************************************************************
       * IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF
IMPACTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
       *
   53  TYP12NUMBER   0      (UP TO 10 ALLOWED)
       *
       *               INNER      OUTER
       *
       *TYP12OUT001      1          15    (0-50 MILES)

*****************************************************************************
       * Maximal annual food ingestion dose to an individual, requested by IXOT13
       *
       * This result is calculated after accounting for temporary or
       * permanent interdiction.  It is only available for the "new" food model.
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       *
```

```
  54  TYP13NUMBER   0   (UP TO 10 ALLOWED)
      *
      * IRAD13 is the radial spatial interval at which results are requested
      *
      * ORGN13 is the name of the organ for which results are requested
      *  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
      *
      *          IRAD13   ORGN13
      *
      *TYP13OUT001   2    EFFECTIVE
      *TYP13OUT002   4    EFFECTIVE
      *TYP13OUT003   6    EFFECTIVE
      *TYP13OUT004   8    EFFECTIVE
      *TYP13OUT005  10    EFFECTIVE
      *TYP13OUT006  12    EFFECTIVE
      *TYP13OUT007  15    EFFECTIVE
      *TYP13OUT008   2    THYROID
      *TYP13OUT009   4    THYROID
      *TYP13OUT010   6    THYROID
      *TYP13OUT011   8    THYROID
      *TYP13OUT012  10    THYROID
      *TYP13OUT013  12    THYROID
      *TYP13OUT014  15    THYROID
      .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********

USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  318
NUMBER OF BLANK OR COMMENT RECORDS READ         =  263
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   54
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   54
*******************************************************************************
****************
```

```
COMIDA2 binary file header =
COMIDA2 01/14/2004 13:06:02   Version 1.11.1, 01/12/2004

COMIDA2 descriptive title  =
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47

Seven new organs added with MACCS Version 1.5.11.1


A SITE DATA FILE IS BEING USED FOR BOTH "EARLY" AND "CHRONC"

 7 CANCER EFFECTS ARE DEFINED IN THE MODEL.
    INDEX  CANCER EFFECT                    ORGAN       ALPHA       BETA     CFRISK
   CIRISK
       1                       LEUKEMIA     L-RED MARR   1.000E+00  0.000E+00
9.700E-03  0.000E+00
       2                       BONE         L-BONE SUR   1.000E+00  0.000E+00
9.000E-04  0.000E+00
       3                       BREAST       L-BREAST     1.000E+00  0.000E+00
5.400E-03  1.700E-02
       4                       LUNG         L-LUNGS      1.000E+00  0.000E+00
1.550E-02  0.000E+00
       5                       THYROID      L-THYROIDH   1.000E+00  0.000E+00
7.200E-04  7.200E-03
       6                       GI           L-LOWER LI   1.000E+00  0.000E+00
3.360E-02  0.000E+00
       7                       OTHER        L-EDEWBODY   1.000E+00  0.000E+00
2.760E-02  0.000E+00

  TIME OF HOTSPOT RELOCATION IS 4.3200E+04.
  TIME OF NORMAL RETURN IS  8.640E+04 AND THE EMERGENCY PHASE ENDS AT  6.048E+05.


GROUNDSHINE SHIELDING FACTOR   = 0.400

RESUSPENSION PROTECTION FACTOR = 0.410

BREATHING RATE (CUBIC M/S) =   2.660E-04

  DISPERSION MODEL FLAG IS  2

  WINDROSE PROBABILITIES BY WIND DIRECTION AND MET BIN NUMBER
 BIN     1      2      3      4      5      6      7      8      9     10     11
12     13     14     15     16
    1 0.2657 0.0280 0.0070 0.0140 0.0420 0.1259 0.1049 0.0839 0.0699 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.2587
    2 0.0789 0.0526 0.0175 0.0000 0.0351 0.1053 0.1491 0.1053 0.2719 0.1316 0.0000
0.0000 0.0000 0.0000 0.0088 0.0439
    3 0.0979 0.0553 0.0723 0.0255 0.0426 0.0255 0.0213 0.0255 0.0426 0.0383 0.0426
0.0681 0.0766 0.1106 0.0979 0.1574
    4 0.1790 0.0953 0.0538 0.0558 0.0408 0.0442 0.0565 0.0626 0.0980 0.1007 0.0585
0.0197 0.0157 0.0116 0.0197 0.0878
    5 0.1510 0.0532 0.0228 0.0339 0.0673 0.0755 0.1123 0.0837 0.1919 0.1293 0.0275
0.0053 0.0006 0.0018 0.0018 0.0421
    6 0.0966 0.0546 0.0143 0.0179 0.0403 0.0814 0.2191 0.1154 0.1494 0.1905 0.0125
0.0000 0.0000 0.0000 0.0000 0.0081
    7 0.0000 0.0351 0.0000 0.0000 0.0175 0.0351 0.3333 0.0351 0.4737 0.0702 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    9 0.0977 0.0798 0.0605 0.0605 0.0358 0.0179 0.0193 0.0316 0.0798 0.0867 0.0757
0.0468 0.0729 0.0578 0.0729 0.1045
   10 0.1630 0.0872 0.0602 0.0427 0.0201 0.0087 0.0087 0.0166 0.0331 0.1866 0.1709
```

0.0541 0.0270 0.0218 0.0122 0.0872
11 0.1941 0.0513 0.0147 0.0220 0.0147 0.0110 0.0073 0.0037 0.0476 0.3407 0.2527
0.0037 0.0000 0.0000 0.0000 0.0366
12 0.2632 0.0263 0.0263 0.0000 0.0789 0.2105 0.0000 0.0263 0.1053 0.1053 0.0789
0.0000 0.0000 0.0000 0.0000 0.0789
13 0.0160 0.0214 0.0321 0.0321 0.0214 0.0428 0.0428 0.0909 0.2406 0.2299 0.0856
0.0642 0.0107 0.0267 0.0267 0.0160
14 0.0065 0.0130 0.0065 0.0065 0.0000 0.0000 0.0033 0.0065 0.0521 0.4788 0.2997
0.0782 0.0195 0.0098 0.0065 0.0130
15 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.3548 0.6452
0.0000 0.0000 0.0000 0.0000 0.0000
16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0714 0.1429 0.0714 0.3571 0.2857
0.0714 0.0000 0.0000 0.0000 0.0000
17 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
18 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
19 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
20 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
21 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
22 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
23 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
24 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
25 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
26 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
27 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
28 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
29 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
30 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
31 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
32 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
33 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
34 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
35 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
36 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
37 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
38 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
39 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
40 0.1560 0.0638 0.0310 0.0233 0.0147 0.0095 0.0121 0.0284 0.1172 0.2086 0.0759
0.0328 0.0362 0.0448 0.0328 0.1129
41 0.1377 0.0653 0.0361 0.0345 0.0363 0.0429 0.0715 0.0564 0.1174 0.1647 0.0822
0.0258 0.0201 0.0197 0.0192 0.0703

```
Processing a Site Data File with Header: MACCS2 Site Data File for Indian Point
Energy Center
 SITE FILE

 THIS PROGRAM CURRENTLY ALLOWS THE GENERATION OF UP TO  394 RESULTS

YOU HAVE REQUESTED  10 RESULTS FROM "EARLY" COMPOSED OF:

   4 RESULTS OF TYPE 1
   0 RESULTS OF TYPE 2
   0 RESULTS OF TYPE 3
   3 RESULTS OF TYPE 4
   1 RESULTS OF TYPE 5
   0 RESULTS OF TYPE 6
   0 RESULTS OF TYPE 7
   2 RESULTS OF TYPE 8
   0 RESULTS OF TYPE A
   0 RESULTS OF TYPE B

YOU HAVE REQUESTED   30 RESULTS FROM "CHRONC" COMPOSED OF:

  17 RESULTS OF TYPE 9
  13 RESULTS OF TYPE 10
   0 RESULTS OF TYPE 11
   0 RESULTS OF TYPE 12
   0 RESULTS OF TYPE 13


     TRIAL        DAY       HOUR        BIN     PRBMET
         1        152         22         29   5.42E-04
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
         2        153          7         35   8.85E-04
For Julian Day 153, selecting COMIDA2 results # 4 of 9
         3        153         14         37   3.42E-04
For Julian Day 153, selecting COMIDA2 results # 4 of 9
         4        153         16         36   2.28E-04
For Julian Day 153, selecting COMIDA2 results # 4 of 9
         5        160          6         15   1.77E-03
For Julian Day 160, selecting COMIDA2 results # 4 of 9
         6        161         11          1   4.08E-03
For Julian Day 161, selecting COMIDA2 results # 4 of 9
         7        161         24         21   4.59E-03
For Julian Day 161, selecting COMIDA2 results # 4 of 9
         8        162          6         18   1.60E-03
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For Julian Day 162, selecting COMIDA2 results # 4 of 9
          9        163         23          9   2.07E-02
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         10        163         24          3   6.71E-03
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         11        165         11          4   4.19E-02
For Julian Day 165, selecting COMIDA2 results # 4 of 9
         12        167         18         39   8.28E-04
For Julian Day 167, selecting COMIDA2 results # 5 of 9
         13        167         22         38   2.85E-04
For Julian Day 167, selecting COMIDA2 results # 5 of 9
         14        167         23         38   2.85E-04
For Julian Day 167, selecting COMIDA2 results # 5 of 9
         15        168          1         37   3.42E-04
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         16        168          7         23   1.20E-03
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         17        169          4         12   1.08E-03
For Julian Day 169, selecting COMIDA2 results # 5 of 9
         18        173         22         40   1.63E-03
For Julian Day 173, selecting COMIDA2 results # 5 of 9
         19        174          3         39   8.28E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         20        174         10         36   2.28E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         21        174         13         31   1.14E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         22        174         18         27   2.28E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         23        174         19         25   1.43E-04
For Julian Day 174, selecting COMIDA2 results # 5 of 9
         24        186         19         35   8.85E-04
For Julian Day 186, selecting COMIDA2 results # 5 of 9
         25        188         24         20   1.77E-03
For Julian Day 188, selecting COMIDA2 results # 5 of 9
         26        189          4         24   1.43E-04
For Julian Day 189, selecting COMIDA2 results # 5 of 9
         27        189          5         24   1.43E-04
For Julian Day 189, selecting COMIDA2 results # 5 of 9
         28        190          3         10   3.27E-02
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         29        191         20         34   2.85E-04
For Julian Day 191, selecting COMIDA2 results # 5 of 9
         30        191         22         34   2.85E-04
For Julian Day 191, selecting COMIDA2 results # 5 of 9
         31        191         24         34   2.85E-04
For Julian Day 191, selecting COMIDA2 results # 5 of 9
         32        192          1         33   2.00E-04
For Julian Day 192, selecting COMIDA2 results # 6 of 9
         33        192          3         33   2.00E-04
For Julian Day 192, selecting COMIDA2 results # 6 of 9
         34        192          4         33   2.00E-04
For Julian Day 192, selecting COMIDA2 results # 6 of 9
         35        192          6         31   1.14E-04
For Julian Day 192, selecting COMIDA2 results # 6 of 9
         36        197         16         28   4.00E-04
For Julian Day 197, selecting COMIDA2 results # 6 of 9
         37        197         20         28   4.00E-04
For Julian Day 197, selecting COMIDA2 results # 6 of 9
         38        197         21         27   2.28E-04
For Julian Day 197, selecting COMIDA2 results # 6 of 9
         39        197         23         27   2.28E-04
For Julian Day 197, selecting COMIDA2 results # 6 of 9
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        40        198          1         26   1.14E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
        41        198          2         26   1.14E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
        42        198          3         25   1.43E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
        43        198          4         25   1.43E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
        44        198          5         24   1.43E-04
For Julian Day 198, selecting COMIDA2 results # 6 of 9
        45        205         14          2   3.25E-03
For Julian Day 205, selecting COMIDA2 results # 6 of 9
        46        205         15          6   3.19E-02
For Julian Day 205, selecting COMIDA2 results # 6 of 9
        47        207         24          5   4.88E-02
For Julian Day 207, selecting COMIDA2 results # 6 of 9
        48        213          3         14   8.76E-03
For Julian Day 213, selecting COMIDA2 results # 6 of 9
        49        215         16         39   8.28E-04
For Julian Day 215, selecting COMIDA2 results # 6 of 9
        50        216         10         40   1.63E-03
For Julian Day 216, selecting COMIDA2 results # 6 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
        51        216         17         38   2.85E-04
For Julian Day 216, selecting COMIDA2 results # 6 of 9
        52        216         19         36   2.28E-04
For Julian Day 216, selecting COMIDA2 results # 6 of 9
        53        221         24         11   7.79E-03
For Julian Day 221, selecting COMIDA2 results # 6 of 9
        54        224          7          4   4.19E-02
For Julian Day 224, selecting COMIDA2 results # 7 of 9
        55        225          4         40   1.63E-03
For Julian Day 225, selecting COMIDA2 results # 7 of 9
        56        225         13         39   8.28E-04
For Julian Day 225, selecting COMIDA2 results # 7 of 9
        57        225         15         37   3.42E-04
For Julian Day 225, selecting COMIDA2 results # 7 of 9
        58        231         23         22   8.70E-03
For Julian Day 231, selecting COMIDA2 results # 7 of 9
        59        234          4         13   5.34E-03
For Julian Day 234, selecting COMIDA2 results # 7 of 9
        60        235         14         19   1.86E-03
For Julian Day 235, selecting COMIDA2 results # 7 of 9
        61        239         11         38   2.85E-04
For Julian Day 239, selecting COMIDA2 results # 7 of 9
        62        239         13         36   2.28E-04
For Julian Day 239, selecting COMIDA2 results # 7 of 9
        63        243         18         34   2.85E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
        64        243         19         33   2.00E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
        65        243         21         32   1.14E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
        66        243         22         32   1.14E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
        67        243         23         30   1.14E-04
For Julian Day 243, selecting COMIDA2 results # 7 of 9
        68        244         16          1   4.08E-03
For Julian Day 244, selecting COMIDA2 results # 7 of 9
        69        245          1         11   7.79E-03
For Julian Day 245, selecting COMIDA2 results # 7 of 9
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         70        253         18         35   8.85E-04
For Julian Day 253, selecting COMIDA2 results # 7 of 9
         71        255          5         10   3.27E-02
For Julian Day 255, selecting COMIDA2 results # 7 of 9
         72        257          1         29   5.42E-04
For Julian Day 257, selecting COMIDA2 results # 8 of 9
         73        257          4         26   1.14E-04
For Julian Day 257, selecting COMIDA2 results # 8 of 9
         74        259          3         16   4.00E-04
For Julian Day 259, selecting COMIDA2 results # 8 of 9
         75        262          6         15   1.77E-03
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         76        263          1         28   4.00E-04
For Julian Day 263, selecting COMIDA2 results # 8 of 9
         77        263          6         28   4.00E-04
For Julian Day 263, selecting COMIDA2 results # 8 of 9
         78        263          9         27   2.28E-04
For Julian Day 263, selecting COMIDA2 results # 8 of 9
         79        263         10         26   1.14E-04
For Julian Day 263, selecting COMIDA2 results # 8 of 9
         80        263         12         23   1.20E-03
For Julian Day 263, selecting COMIDA2 results # 8 of 9
         81        264          4         17   6.96E-03
For Julian Day 264, selecting COMIDA2 results # 8 of 9
         82        267          9          3   6.71E-03
For Julian Day 267, selecting COMIDA2 results # 8 of 9
         83        276         14          5   4.88E-02
For Julian Day 276, selecting COMIDA2 results # 8 of 9
         84        282          2         14   8.76E-03
For Julian Day 282, selecting COMIDA2 results # 8 of 9
         85        284         23         13   5.34E-03
For Julian Day 284, selecting COMIDA2 results # 8 of 9
         86        285          6          9   2.07E-02
For Julian Day 285, selecting COMIDA2 results # 8 of 9
         87        291         12          1   4.08E-03
For Julian Day 291, selecting COMIDA2 results # 9 of 9
         88        306         16         12   1.08E-03
For Julian Day 306, selecting COMIDA2 results # 9 of 9
         89        308         13         22   8.70E-03
For Julian Day 308, selecting COMIDA2 results # 9 of 9
         90        315          9          6   3.19E-02
For Julian Day 315, selecting COMIDA2 results # 9 of 9
         91        316         13          2   3.25E-03
For Julian Day 316, selecting COMIDA2 results # 9 of 9
         92        320          8          9   2.07E-02
For Julian Day 320, selecting COMIDA2 results # 9 of 9
         93        327          2         15   1.77E-03
For Julian Day 327, selecting COMIDA2 results # 9 of 9
         94        327          8         14   8.76E-03
For Julian Day 327, selecting COMIDA2 results # 9 of 9
         95        329         20         23   1.20E-03
For Julian Day 329, selecting COMIDA2 results # 9 of 9
         96        334         20         11   7.79E-03
For Julian Day 334, selecting COMIDA2 results # 1 of 9
         97        334         22         12   1.08E-03
For Julian Day 334, selecting COMIDA2 results # 1 of 9
         98        336         13          4   4.19E-02
For Julian Day 336, selecting COMIDA2 results # 1 of 9
         99        351         16         20   1.77E-03
For Julian Day 351, selecting COMIDA2 results # 1 of 9
        100        352          9          7   1.63E-03
For Julian Day 352, selecting COMIDA2 results # 1 of 9
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     TRIAL        DAY       HOUR        BIN     PRBMET
       101        358          7         10   3.27E-02
For Julian Day 358, selecting COMIDA2 results # 1 of 9
       102          8         18         19   1.86E-03
For Julian Day   8, selecting COMIDA2 results # 1 of 9
       103         14          2         13   5.34E-03
For Julian Day  14, selecting COMIDA2 results # 1 of 9
       104         15          1         21   4.59E-03
For Julian Day  15, selecting COMIDA2 results # 1 of 9
       105         15          6         17   6.96E-03
For Julian Day  15, selecting COMIDA2 results # 1 of 9
       106         18         16         22   8.70E-03
For Julian Day  18, selecting COMIDA2 results # 1 of 9
       107         19          6         18   1.60E-03
For Julian Day  19, selecting COMIDA2 results # 1 of 9
       108         20         17          6   3.19E-02
For Julian Day  20, selecting COMIDA2 results # 1 of 9
       109         27         15          5   4.88E-02
For Julian Day  27, selecting COMIDA2 results # 1 of 9
       110         36         10         20   1.77E-03
For Julian Day  36, selecting COMIDA2 results # 2 of 9
       111         40          5          3   6.71E-03
For Julian Day  40, selecting COMIDA2 results # 2 of 9
       112         47         13         21   4.59E-03
For Julian Day  47, selecting COMIDA2 results # 2 of 9
       113         47         20         17   6.96E-03
For Julian Day  47, selecting COMIDA2 results # 2 of 9
       114         50         21         12   1.08E-03
For Julian Day  50, selecting COMIDA2 results # 2 of 9
       115         62          4          9   2.07E-02
For Julian Day  62, selecting COMIDA2 results # 2 of 9
       116         65         10          7   1.63E-03
For Julian Day  65, selecting COMIDA2 results # 2 of 9
       117         68         14         19   1.86E-03
For Julian Day  68, selecting COMIDA2 results # 2 of 9
       118         71         13          5   4.88E-02
For Julian Day  71, selecting COMIDA2 results # 2 of 9
       119         71         24         18   1.60E-03
For Julian Day  71, selecting COMIDA2 results # 2 of 9
       120         80         13         22   8.70E-03
For Julian Day  80, selecting COMIDA2 results # 2 of 9
       121         81         22         16   4.00E-04
For Julian Day  81, selecting COMIDA2 results # 2 of 9
       122         82          6          7   1.63E-03
For Julian Day  82, selecting COMIDA2 results # 2 of 9
       123         87         12          2   3.25E-03
For Julian Day  87, selecting COMIDA2 results # 2 of 9
       124         88         18         18   1.60E-03
For Julian Day  88, selecting COMIDA2 results # 2 of 9
       125         89          6         29   5.42E-04
For Julian Day  89, selecting COMIDA2 results # 2 of 9
       126         94         16          6   3.19E-02
For Julian Day  94, selecting COMIDA2 results # 3 of 9
       127         95         14          1   4.08E-03
For Julian Day  95, selecting COMIDA2 results # 3 of 9
       128         96         13         19   1.86E-03
For Julian Day  96, selecting COMIDA2 results # 3 of 9
       129         99         19         31   1.14E-04
For Julian Day  99, selecting COMIDA2 results # 3 of 9
       130         99         21         35   8.85E-04
For Julian Day  99, selecting COMIDA2 results # 3 of 9
       131        103          8         16   4.00E-04
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For Julian Day 103, selecting COMIDA2 results # 3 of 9
        132        107          5         10   3.27E-02
For Julian Day 107, selecting COMIDA2 results # 3 of 9
        133        111         18         21   4.59E-03
For Julian Day 111, selecting COMIDA2 results # 3 of 9
        134        114          8          4   4.19E-02
For Julian Day 114, selecting COMIDA2 results # 3 of 9
        135        114         17          7   1.63E-03
For Julian Day 114, selecting COMIDA2 results # 3 of 9
        136        116          3         15   1.77E-03
For Julian Day 116, selecting COMIDA2 results # 3 of 9
        137        120          3         14   8.76E-03
For Julian Day 120, selecting COMIDA2 results # 3 of 9
        138        121          7         13   5.34E-03
For Julian Day 121, selecting COMIDA2 results # 3 of 9
        139        124         10         11   7.79E-03
For Julian Day 124, selecting COMIDA2 results # 3 of 9
        140        128         14          2   3.25E-03
For Julian Day 128, selecting COMIDA2 results # 3 of 9
        141        130          5         16   4.00E-04
For Julian Day 130, selecting COMIDA2 results # 3 of 9
        142        140          5          3   6.71E-03
For Julian Day 140, selecting COMIDA2 results # 4 of 9
        143        142          5         25   1.43E-04
For Julian Day 142, selecting COMIDA2 results # 4 of 9
        144        142          6         24   1.43E-04
For Julian Day 142, selecting COMIDA2 results # 4 of 9
        145        142         10         23   1.20E-03
For Julian Day 142, selecting COMIDA2 results # 4 of 9
        146        143         10         17   6.96E-03
For Julian Day 143, selecting COMIDA2 results # 4 of 9
        147        147          2         29   5.42E-04
For Julian Day 147, selecting COMIDA2 results # 4 of 9
        148        147          5         20   1.77E-03
For Julian Day 147, selecting COMIDA2 results # 4 of 9
        149        147         11         40   1.63E-03
For Julian Day 147, selecting COMIDA2 results # 4 of 9
        150        147         18         37   3.42E-04
For Julian Day 147, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 153, selecting COMIDA2 results # 4 of 9
For Julian Day 153, selecting COMIDA2 results # 4 of 9
For Julian Day 153, selecting COMIDA2 results # 4 of 9
For Julian Day 160, selecting COMIDA2 results # 4 of 9
For Julian Day 161, selecting COMIDA2 results # 4 of 9
For Julian Day 161, selecting COMIDA2 results # 4 of 9
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For Julian Day 162, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 165, selecting COMIDA2 results # 4 of 9
For Julian Day 167, selecting COMIDA2 results # 5 of 9
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For Julian Day 167, selecting COMIDA2 results # 5 of 9
For Julian Day 168, selecting COMIDA2 results # 5 of 9
For Julian Day 168, selecting COMIDA2 results # 5 of 9
For Julian Day 169, selecting COMIDA2 results # 5 of 9
For Julian Day 173, selecting COMIDA2 results # 5 of 9
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For Julian Day 207, selecting COMIDA2 results # 6 of 9
For Julian Day 213, selecting COMIDA2 results # 6 of 9
For Julian Day 215, selecting COMIDA2 results # 6 of 9
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For Julian Day 224, selecting COMIDA2 results # 7 of 9
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For Julian Day 225, selecting COMIDA2 results # 7 of 9
For Julian Day 231, selecting COMIDA2 results # 7 of 9
For Julian Day 234, selecting COMIDA2 results # 7 of 9
For Julian Day 235, selecting COMIDA2 results # 7 of 9
For Julian Day 239, selecting COMIDA2 results # 7 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.81 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  23.58 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

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A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 24.00 HOURS

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 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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For Julian Day  36, selecting COMIDA2 results # 2 of 9
For Julian Day  40, selecting COMIDA2 results # 2 of 9
For Julian Day  47, selecting COMIDA2 results # 2 of 9
For Julian Day  47, selecting COMIDA2 results # 2 of 9
For Julian Day  50, selecting COMIDA2 results # 2 of 9
For Julian Day  62, selecting COMIDA2 results # 2 of 9
For Julian Day  65, selecting COMIDA2 results # 2 of 9
For Julian Day  68, selecting COMIDA2 results # 2 of 9
For Julian Day  71, selecting COMIDA2 results # 2 of 9
For Julian Day  71, selecting COMIDA2 results # 2 of 9
For Julian Day  80, selecting COMIDA2 results # 2 of 9
For Julian Day  81, selecting COMIDA2 results # 2 of 9
For Julian Day  82, selecting COMIDA2 results # 2 of 9
For Julian Day  87, selecting COMIDA2 results # 2 of 9
For Julian Day  88, selecting COMIDA2 results # 2 of 9
For Julian Day  89, selecting COMIDA2 results # 2 of 9
For Julian Day  94, selecting COMIDA2 results # 3 of 9
For Julian Day  95, selecting COMIDA2 results # 3 of 9
For Julian Day  96, selecting COMIDA2 results # 3 of 9
For Julian Day  99, selecting COMIDA2 results # 3 of 9
For Julian Day  99, selecting COMIDA2 results # 3 of 9
For Julian Day 103, selecting COMIDA2 results # 3 of 9
For Julian Day 107, selecting COMIDA2 results # 3 of 9
For Julian Day 111, selecting COMIDA2 results # 3 of 9
For Julian Day 114, selecting COMIDA2 results # 3 of 9
For Julian Day 114, selecting COMIDA2 results # 3 of 9
For Julian Day 116, selecting COMIDA2 results # 3 of 9
For Julian Day 120, selecting COMIDA2 results # 3 of 9
For Julian Day 121, selecting COMIDA2 results # 3 of 9
For Julian Day 124, selecting COMIDA2 results # 3 of 9
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For Julian Day 128, selecting COMIDA2 results # 3 of 9
For Julian Day 130, selecting COMIDA2 results # 3 of 9
For Julian Day 140, selecting COMIDA2 results # 4 of 9
For Julian Day 142, selecting COMIDA2 results # 4 of 9
For Julian Day 142, selecting COMIDA2 results # 4 of 9
For Julian Day 142, selecting COMIDA2 results # 4 of 9
For Julian Day 143, selecting COMIDA2 results # 4 of 9
For Julian Day 147, selecting COMIDA2 results # 4 of 9
For Julian Day 147, selecting COMIDA2 results # 4 of 9
For Julian Day 147, selecting COMIDA2 results # 4 of 9
For Julian Day 147, selecting COMIDA2 results # 4 of 9
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH
THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:


FRACTION OF THE PEOPLE

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    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
                1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC"
DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN
LATER SECTIONS.

13-NOV-09  10:26:16    PAGE   1          PROB                           QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  3.70E+00  3.03E+00  6.35E+00
8.28E+00  1.67E+01  2.55E+01  4.54E+01  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.47E+00  1.22E+00  2.76E+00
3.07E+00  3.33E+00  3.45E+00  4.78E+00  7.95E-06    1

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  8.26E+01  6.89E+01  1.49E+02
1.96E+02  3.55E+02  4.64E+02  1.01E+03  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.73E-06  3.29E-06  6.97E-06
7.55E-06  9.03E-06  9.76E-06  1.21E-05  7.95E-06    1
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS
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  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  1 OF  8:
    NCF

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  10:26:16    PAGE   2          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.69E-01  2.31E-01  4.91E-01
6.10E-01  9.62E-01  1.67E+00  2.11E+00  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.17E-01  1.04E-01  2.08E-01
2.48E-01  3.13E-01  3.23E-01  3.64E-01  4.28E-04    6
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.76E+00  5.09E+00  1.05E+01
1.29E+01  2.13E+01  2.78E+01  4.62E+01  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.99E-07  2.77E-07  5.52E-07
7.04E-07  7.75E-07  8.07E-07  9.33E-07  4.28E-04    6
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  10:26:16    PAGE   3          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  3.43E+00  2.76E+00  6.05E+00
7.81E+00  1.40E+01  1.85E+01  4.33E+01  4.11E-03   54
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.35E+00  1.16E+00  2.64E+00
3.05E+00  3.27E+00  3.38E+00  4.49E+00  7.95E-06    1

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  7.68E+01  6.28E+01  1.32E+02
1.74E+02  3.48E+02  4.62E+02  9.66E+02  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.43E-06  3.13E-06  6.50E-06
7.32E-06  8.44E-06  8.97E-06  1.14E-05  7.95E-06    1

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  7.68E+01  6.28E+01  1.32E+02
1.74E+02  3.48E+02  4.62E+02  9.66E+02  4.11E-03   54
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  7.59E+01  6.26E+01  1.32E+02
1.74E+02  3.48E+02  4.62E+02  9.66E+02  4.11E-03   54
 TOTAL INGESTION PATHWAYS DOSE          1.0000  9.11E-01  3.09E-01  2.64E+00
3.65E+00  5.44E+00  5.80E+00  7.23E+00  6.56E-04   54
 LONG-TERM GROUNDSHINE DOSE             1.0000  7.35E+01  6.03E+01  1.27E+02
1.66E+02  3.45E+02  4.61E+02  9.36E+02  4.11E-03   54
 LONG-TERM RESUSPENSION DOSE            1.0000  2.37E+00  1.96E+00  4.28E+00
5.53E+00  1.20E+01  1.79E+01  3.02E+01  4.11E-03   54
 WATER INGESTION DOSE                   1.0000  4.18E-02  3.52E-02  7.46E-02
8.48E-02  1.12E-01  1.24E-01  1.44E-01  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE    0.6699  1.13E-02  9.36E-03  2.25E-02
2.49E-02  3.38E-02  4.40E-02  1.01E-01  2.24E-04    1
 FARM-DEPENDENT DECONTAMINATION DOSE    0.6699  1.21E-06  9.82E-07  2.70E-06
3.29E-06  4.78E-06  5.55E-06  3.42E-05  4.96E-04   80
 INGESTION OF GRAINS                    1.0000  2.71E-02  7.62E-03  8.50E-02
1.18E-01  2.05E-01  2.16E-01  2.53E-01  6.56E-04   54
 INGESTION OF LEAF VEG                  1.0000  5.20E-02  9.47E-03  1.37E-01
2.74E-01  5.31E-01  6.16E-01  7.45E-01  1.79E-05   76
 INGESTION OF ROOT CROPS                1.0000  3.57E-02  1.01E-02  1.06E-01
1.38E-01  3.02E-01  3.09E-01  3.30E-01  6.56E-04   54
 INGESTION OF FRUITS                    1.0000  5.27E-02  1.41E-02  1.61E-01
2.24E-01  3.28E-01  3.63E-01  4.86E-01  6.56E-04   54
 INGESTION OF LEGUMES                   1.0000  3.06E-02  8.27E-03  9.29E-02
1.23E-01  2.07E-01  2.24E-01  2.82E-01  6.56E-04   54
 INGESTION OF BEEF                      1.0000  2.70E-01  9.08E-02  7.95E-01
1.04E+00  1.33E+00  1.47E+00  2.08E+00  6.56E-04   54
 INGESTION OF MILK                      1.0000  3.08E-01  8.67E-02  9.61E-01
1.25E+00  2.05E+00  2.18E+00  2.59E+00  6.56E-04   54
 INGESTION OF POULTRY                   1.0000  7.57E-02  1.97E-02  1.89E-01
3.57E-01  7.03E-01  7.26E-01  9.45E-01  1.79E-05   76
 INGESTION OF OTHER MEAT CROPS          1.0000  1.70E-02  8.27E-03  3.96E-02
6.62E-02  1.09E-01  1.15E-01  1.79E-01  1.79E-05   76

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   0.8667  2.37E+05  1.81E+05  3.71E+05
4.08E+05  6.04E+05  1.03E+06  1.65E+06  5.14E-06    1
 POP.-DEPENDENT COSTS                   0.6699  2.22E+05  1.79E+05  3.68E+05
4.03E+05  4.99E+05  1.09E+06  1.53E+06  8.86E-04    1
 FARM-DEPENDENT COSTS                   0.8667  1.45E+04  1.79E+03  5.57E+04
7.31E+04  8.74E+04  9.44E+04  1.76E+05  4.28E-04  127
 POP.-DEPENDENT DECONTAMINATION COST    0.6699  4.76E+04  4.26E+04  8.07E+04
8.60E+04  9.98E+04  2.23E+05  4.11E+05  8.86E-04    1
 FARM-DEPENDENT DECONTAMINATION COST    0.6699  3.81E+01  2.82E+01  8.02E+01
8.57E+01  9.98E+01  2.13E+02  2.97E+02  8.86E-04    1
 POP.-DEPENDENT INTERDICTION COST       0.6699  1.75E+05  1.61E+05  3.66E+05
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4.01E+05  4.94E+05  7.60E+05  1.12E+06  8.86E-04    1
 FARM-DEPENDENT INTERDICTION COST       0.8667  1.15E+04  1.29E+03  4.01E+04
5.22E+04  6.23E+04  6.72E+04  1.39E+05  4.28E-04  127
 POP.-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 FARM-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 EMERGENCY PHASE COST                   0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  10:26:16    PAGE   4          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     0.7671  4.14E+01  1.54E+00  1.24E+02
1.98E+02  4.36E+02  5.20E+02  6.27E+02  9.17E-04   11
 CROP DISPOSAL COST                     0.7671  2.99E+03  2.72E+02  1.03E+04
1.18E+04  1.60E+04  1.83E+04  3.62E+04  4.28E-04  127
XXXX
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XXXX

XXXX

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1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  10:26:16    PAGE   6          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.9933  1.12E+02  5.25E+01  3.11E+02
3.33E+02  3.93E+02  4.23E+02  7.04E+02  5.55E-05    7
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.71E+04  1.14E+04  3.52E+04
5.19E+04  9.79E+04  1.03E+05  1.19E+05  2.85E-04  127
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.46E+03  4.02E+03  7.32E+03
8.46E+03  1.05E+04  1.10E+04  1.51E+04  2.85E-05   48
 ERL FAT/TOTAL               0-16.1 km  0.9933  1.12E+02  5.25E+01  3.11E+02
3.33E+02  3.93E+02  4.23E+02  7.04E+02  5.55E-05    7

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.9933  1.52E-01  1.34E-01  2.05E-01
2.11E-01  2.23E-01  2.29E-01  2.31E-01  4.08E-03    6
 ERL FAT/TOTAL              0.3-1.6 km  0.8249  2.31E-02  8.45E-03  5.23E-02
5.41E-02  5.84E-02  6.04E-02  6.82E-02  4.00E-04   77
 ERL FAT/TOTAL              1.6-3.2 km  0.4823  3.97E-04  0.00E+00  1.04E-03
1.47E-03  3.81E-03  4.85E-03  1.52E-02  4.59E-03    7

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  2.21E+05  1.27E+05  5.40E+05
7.54E+05  1.05E+06  1.14E+06  1.55E+06  2.85E-04  127

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.9933  6.70E-03  3.18E-03  2.03E-02
2.15E-02  2.47E-02  2.61E-02  4.18E-02  5.55E-05    7
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.14E-02  1.06E-02  1.90E-02
2.17E-02  2.74E-02  3.01E-02  3.85E-02  2.85E-05   48
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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                                PROB                                QUANTILES
                          PEAK      PEAK  PEAK
                                   NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.13E+04  5.64E+03  2.95E+04
3.47E+04  4.97E+04 NOT-FOUND  5.76E+04  9.36E-03   83
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.49E+02  3.24E+02  4.64E+02
5.16E+02  5.96E+02  6.34E+02  8.26E+02  1.71E-04    6

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  2.53E+05  1.22E+05  6.56E+05
7.68E+05  1.21E+06 NOT-FOUND  1.31E+06  9.36E-03   83

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  0.9954  3.74E-04  3.38E-04  6.15E-04
7.14E-04  9.14E-04  1.01E-03  1.37E-03  1.71E-04    6

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  2.53E+05  1.22E+05  6.56E+05
7.68E+05  1.21E+06 NOT-FOUND  1.31E+06  9.36E-03   83
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  2.08E+05  9.80E+04  5.34E+05
6.14E+05 NOT-FOUND NOT-FOUND  9.36E+05  1.38E-02   83
 TOTAL INGESTION PATHWAYS DOSE          1.0000  2.73E+03  2.43E+03  4.68E+03
5.15E+03  5.66E+03  5.89E+03  7.84E+03  8.46E-05    1
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.99E+05  9.75E+04  5.26E+05
5.97E+05 NOT-FOUND NOT-FOUND  9.11E+05  1.38E-02   83
 LONG-TERM RESUSPENSION DOSE            1.0000  9.24E+03  4.05E+03  2.29E+04
2.61E+04  3.17E+04  3.31E+04  3.69E+04  8.85E-04   91
 WATER INGESTION DOSE                   1.0000  2.57E+03  2.29E+03  4.18E+03
5.02E+03  5.55E+03  5.79E+03  7.38E+03  8.46E-05    1
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.15E+04  2.19E+04  1.03E+05
1.36E+05  3.00E+05  3.14E+05  3.75E+05  3.71E-04   96
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  2.94E+01  1.30E+01  7.65E+01
9.09E+01  1.18E+02  1.29E+02  1.76E+02  5.14E-04   82
 INGESTION OF GRAINS                    1.0000  2.89E+00  1.39E+00  6.69E+00
8.33E+00  1.40E+01  1.76E+01  3.35E+01  6.41E-05   25
 INGESTION OF LEAF VEG                  1.0000  2.12E+01  9.83E+00  5.32E+01
6.05E+01  7.61E+01  8.16E+01  1.39E+02  1.71E-04   84
 INGESTION OF ROOT CROPS                1.0000  1.27E+01  5.81E+00  3.14E+01
3.47E+01  4.39E+01  4.86E+01  5.72E+01  1.46E-05   22
 INGESTION OF FRUITS                    1.0000  1.18E+01  5.57E+00  3.02E+01
3.40E+01  4.48E+01  5.02E+01  7.06E+01  8.27E-06   38
 INGESTION OF LEGUMES                   1.0000  2.46E+01  1.16E+01  6.13E+01
7.21E+01  8.87E+01  9.69E+01  1.16E+02  1.08E-03   87
 INGESTION OF BEEF                      1.0000  3.87E+01  9.87E+00  1.25E+02
1.79E+02  3.25E+02  4.27E+02  6.15E+02  5.14E-04  111
 INGESTION OF MILK                      1.0000  3.22E+01  1.09E+01  1.02E+02
1.32E+02  3.08E+02  4.18E+02  5.68E+02  3.71E-04  111
 INGESTION OF POULTRY                   1.0000  8.94E+00  2.63E+00  3.01E+01
3.78E+01  5.86E+01  6.77E+01  1.23E+02  1.14E-04   84
 INGESTION OF OTHER MEAT CROPS          1.0000  4.00E+00  1.15E+00  1.31E+01
2.02E+01  2.91E+01  3.11E+01  3.57E+01  5.14E-04  111

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  1.51E+11  8.10E+10  3.53E+11
4.28E+11  7.01E+11  7.29E+11  8.45E+11  3.71E-04   96
 POP.-DEPENDENT COSTS                   1.0000  1.51E+11  8.08E+10  3.52E+11
4.28E+11  7.01E+11  7.29E+11  8.45E+11  3.71E-04   96
 FARM-DEPENDENT COSTS                   1.0000  3.95E+08  2.21E+08  1.01E+09
1.04E+09  1.11E+09  1.14E+09  1.29E+09  2.57E-04  140
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  3.58E+10  1.58E+10  1.01E+11
1.07E+11  1.25E+11  1.33E+11  1.75E+11  2.85E-04    6
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 FARM-DEPENDENT DECONTAMINATION COST    1.0000  3.43E+07  1.66E+07  7.76E+07
8.52E+07  1.03E+08  1.09E+08  1.29E+08  5.14E-04   82
 POP.-DEPENDENT INTERDICTION COST       1.0000  1.08E+11  5.54E+10  2.98E+11
3.50E+11  5.02E+11  5.38E+11  7.06E+11  3.71E-04   96
 FARM-DEPENDENT INTERDICTION COST       1.0000  3.14E+08  1.49E+08  7.43E+08
7.87E+08  8.98E+08  9.51E+08  1.11E+09  2.57E-04  140
 POP.-DEPENDENT CONDEMNATION COST       1.0000  7.37E+09  5.54E+09  1.21E+10
1.58E+10  5.10E+10  5.62E+10  6.34E+10  2.15E-03  106
 FARM-DEPENDENT CONDEMNATION COST       1.0000  6.47E+06  4.78E+06  1.17E+07
1.58E+07  5.03E+07  5.13E+07  5.86E+07  5.24E-05  124
 EMERGENCY PHASE COST                   1.0000  1.18E+08  5.42E+07  2.17E+08
3.45E+08  1.64E+09 NOT-FOUND  2.32E+09  9.36E-03   83
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  10:26:16    PAGE   8          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.06E+06  2.85E+05  2.85E+06
3.45E+06  5.03E+06  5.16E+06  6.26E+06  2.85E-05  140
 CROP DISPOSAL COST                     1.0000  3.98E+07  3.84E+07  5.88E+07
6.41E+07  7.38E+07  7.68E+07  8.95E+07  3.42E-04  140
XXXX
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XXXX

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XXXX
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 CAN FAT/TOTAL                0-16.1 km  1.0000  4.52E-03  4.07E-03  7.12E-03
8.20E-03  1.03E-02  1.06E-02  1.32E-02  5.55E-05    7
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  10:26:16    PAGE  10          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.9132  1.08E+01  6.35E+00  2.59E+01
3.09E+01  3.88E+01  4.28E+01  5.31E+01  5.55E-05    7
 CAN FAT/TOTAL                0-80.5 km  1.0000  5.99E+03  4.32E+03  1.11E+04
1.48E+04  3.80E+04 NOT-FOUND  5.11E+04  9.36E-03   83
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.63E+03  1.40E+03  2.74E+03
3.08E+03  3.45E+03  3.63E+03  5.02E+03  5.55E-05    7
 ERL FAT/TOTAL                0-16.1 km  0.9132  1.08E+01  6.35E+00  2.59E+01
3.09E+01  3.88E+01  4.28E+01  5.31E+01  5.55E-05    7

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.9132  5.16E-02  5.01E-02  1.02E-01
1.04E-01  1.09E-01  1.10E-01  1.18E-01  4.00E-04   77
 ERL FAT/TOTAL               0.3-1.6 km  0.1402  6.99E-05  0.00E+00  2.58E-04
5.04E-04  6.29E-04  6.92E-04  4.30E-03  4.59E-03    7
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  7.33E+04  5.02E+04  1.63E+05
2.20E+05  4.90E+05  5.19E+05  6.00E+05  3.71E-04   96

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.9132  6.50E-04  4.07E-04  1.16E-03
1.29E-03  1.63E-03  1.80E-03  3.18E-03  5.55E-05    7
 CAN FAT/TOTAL                0-16.1 km  1.0000  4.18E-03  3.88E-03  6.97E-03
7.79E-03  1.00E-02  1.03E-02  1.29E-02  5.55E-05    7
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE
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13-NOV-09  10:26:16    PAGE  11          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  4.78E+03  2.44E+03  1.15E+04
1.40E+04  2.05E+04  2.15E+04  2.62E+04  2.85E-04    6
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.01E+02  2.83E+02  4.50E+02
5.17E+02  6.20E+02  6.71E+02  8.38E+02  4.18E-06   61

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.05E+05  5.43E+04  2.77E+05
3.19E+05  3.87E+05  4.20E+05  5.74E+05  2.85E-04    6

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.45E-04  3.15E-04  5.14E-04
5.43E-04  6.16E-04  6.50E-04  8.13E-04  4.18E-06   61

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.05E+05  5.43E+04  2.77E+05
3.19E+05  3.87E+05  4.20E+05  5.74E+05  2.85E-04    6
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  9.26E+04  4.54E+04  2.33E+05
2.82E+05  3.46E+05  3.72E+05  5.33E+05  2.85E-04    6
 TOTAL INGESTION PATHWAYS DOSE          1.0000  3.69E+02  3.10E+02  6.79E+02
7.22E+02  7.84E+02  8.12E+02  1.04E+03  6.23E-05   77
 LONG-TERM GROUNDSHINE DOSE             1.0000  8.23E+04  3.90E+04  2.16E+05
2.50E+05  3.24E+05  3.49E+05  4.73E+05  2.85E-04    6
 LONG-TERM RESUSPENSION DOSE            1.0000  1.03E+04  4.65E+03  2.61E+04
3.20E+04  4.44E+04  5.03E+04  6.06E+04  2.85E-04    6
 WATER INGESTION DOSE                   1.0000  1.97E+02  1.83E+02  3.20E+02
3.49E+02  4.27E+02  4.65E+02  5.67E+02  5.71E-05  137
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  1.22E+04  8.44E+03  2.54E+04
3.43E+04  7.00E+04  7.45E+04  9.42E+04  3.71E-04   96
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  8.05E+00  3.52E+00  2.20E+01
2.94E+01  3.39E+01  3.58E+01  5.01E+01  7.29E-05  149
 INGESTION OF GRAINS                    1.0000  5.16E+00  1.18E+00  1.58E+01
2.05E+01  2.37E+01  2.52E+01  3.00E+01  7.42E-04   10
 INGESTION OF LEAF VEG                  1.0000  1.32E+01  5.29E+00  3.18E+01
4.78E+01  1.06E+02  1.18E+02  1.72E+02  4.44E-04   81
 INGESTION OF ROOT CROPS                1.0000  7.62E+00  2.72E+00  2.38E+01
2.98E+01  3.35E+01  3.52E+01  4.02E+01  7.42E-04   10
 INGESTION OF FRUITS                    1.0000  1.10E+01  3.86E+00  3.26E+01
3.68E+01  4.86E+01  5.18E+01  5.87E+01  7.42E-04   10
 INGESTION OF LEGUMES                   1.0000  9.35E+00  4.26E+00  2.45E+01
3.01E+01  3.26E+01  3.37E+01  3.71E+01  7.42E-04   10
 INGESTION OF BEEF                      1.0000  6.76E+01  2.90E+01  1.57E+02
2.04E+02  2.80E+02  3.12E+02  4.27E+02  3.15E-04  120
 INGESTION OF MILK                      1.0000  3.85E+01  1.61E+01  9.14E+01
1.23E+02  2.27E+02  2.69E+02  4.35E+02  5.14E-04  111
 INGESTION OF POULTRY                   1.0000  1.48E+01  7.34E+00  3.48E+01
4.24E+01  7.02E+01  7.60E+01  1.07E+02  4.44E-04   81
 INGESTION OF OTHER MEAT CROPS          1.0000  4.73E+00  2.36E+00  1.17E+01
1.58E+01  2.40E+01  2.70E+01  4.17E+01  1.08E-03   87

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.13E+10  2.43E+10  1.56E+11
2.23E+11  3.12E+11 NOT-FOUND  3.53E+11  9.36E-03   83
 POP.-DEPENDENT COSTS                   1.0000  5.12E+10  2.42E+10  1.56E+11
2.23E+11  3.12E+11 NOT-FOUND  3.53E+11  9.36E-03   83
 FARM-DEPENDENT COSTS                   1.0000  1.61E+08  8.68E+07  4.27E+08
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5.47E+08  7.34E+08  7.70E+08  1.02E+09  1.14E-04    6
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.24E+10  5.75E+09  3.17E+10
5.05E+10  9.51E+10 NOT-FOUND  1.16E+11  9.36E-03   83
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.34E+07  6.25E+06  3.36E+07
3.92E+07  5.25E+07  5.59E+07  6.65E+07  7.42E-04   82
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.81E+10  1.60E+10  1.00E+11
1.26E+11  2.27E+11 NOT-FOUND  2.37E+11  9.36E-03   83
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.29E+08  5.38E+07  3.60E+08
4.37E+08  6.49E+08  7.19E+08  9.43E+08  1.14E-04    6
 POP.-DEPENDENT CONDEMNATION COST       0.9933  7.14E+08  5.78E+08  1.37E+09
1.76E+09  2.23E+09  2.37E+09  4.10E+09  5.71E-05   48
 FARM-DEPENDENT CONDEMNATION COST       0.9933  2.88E+05  2.77E+05  5.61E+05
7.23E+05  9.07E+05  1.00E+06  1.28E+06  3.25E-06  150
 EMERGENCY PHASE COST                   1.0000  1.71E+07  1.17E+07  2.97E+07
5.77E+07  7.64E+07  8.08E+07  3.77E+08  1.14E-04   97
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  10:26:16    PAGE  12          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  5.94E+05  4.45E+04  1.75E+06
2.45E+06  3.52E+06  3.88E+06  5.51E+06  8.28E-04   82
 CROP DISPOSAL COST                     1.0000  1.71E+07  1.23E+07  3.87E+07
5.02E+07  6.32E+07  6.98E+07  8.16E+07  5.14E-04    6
XXXX
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XXXX

XXXX

1.45E+05 2.95E+05 NOT-FOUND 4.16E+05 9.36E-03 83

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL 0-16.1 km 1.0000 8.71E-04 7.98E-04 1.21E-03
1.35E-03 1.72E-03 1.91E-03 2.10E-03 3.35E-06 39
  DATE AND TIME OF RUN = MACCS2 13-NOV-09 10:26:16 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

SOURCE TERM 4 OF 8:
    EARLY LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE

13-NOV-09 10:26:16 PAGE 14 PROB QUANTILES
  PEAK PEAK PEAK
  NON-ZERO MEAN 50TH 90TH 95TH
  99TH 99.5TH CONS PROB TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL 0-80.5 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
 CAN FAT/TOTAL 0-80.5 km 1.0000 6.41E+02 5.27E+02 1.17E+03
1.47E+03 2.95E+03 3.17E+03 3.92E+03 3.71E-04 96
 CAN FAT/TOTAL 0-16.1 km 1.0000 2.46E+02 2.29E+02 3.88E+02
4.50E+02 5.24E+02 5.40E+02 6.56E+02 5.55E-05 7
 ERL FAT/TOTAL 0-16.1 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL 0-0.3 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
 ERL FAT/TOTAL 0.3-1.6 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
 ERL FAT/TOTAL 1.6-3.2 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0

POPULATION DOSE (Sv)
 L-EDEWBODY TOT LIF 0-80.5 km 1.0000 9.27E+03 7.22E+03 2.01E+04
2.40E+04 4.91E+04 5.26E+04 6.41E+04 3.71E-04 96

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL 0-3.2 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
 CAN FAT/TOTAL 0-16.1 km 1.0000 6.31E-04 5.80E-04 1.02E-03
1.07E-03 1.19E-03 1.24E-03 1.68E-03 5.55E-05 7
  DATE AND TIME OF RUN = MACCS2 13-NOV-09 10:26:16 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 4 OF 8:
    EARLY LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

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13-NOV-09  10:26:16    PAGE  15          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.71E+03  8.25E+02  4.35E+03
6.44E+03  1.17E+04 NOT-FOUND  1.61E+04  9.36E-03   83
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.23E+02  1.09E+02  1.85E+02
2.04E+02  2.18E+02  2.25E+02  2.86E+02  1.54E-05   18

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.74E+04  1.79E+04  9.96E+04
1.33E+05  2.88E+05 NOT-FOUND  3.53E+05  9.36E-03   83

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.40E-04  2.19E-04  3.36E-04
3.66E-04  4.43E-04  4.81E-04  5.29E-04  1.54E-05   50

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  3.74E+04  1.79E+04  9.96E+04
1.33E+05  2.88E+05 NOT-FOUND  3.53E+05  9.36E-03   83
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  3.64E+04  1.58E+04  9.96E+04
1.33E+05  2.88E+05 NOT-FOUND  3.52E+05  9.36E-03   83
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.34E+02  6.84E+01  3.16E+02
3.38E+02  3.98E+02  4.26E+02  5.89E+02  1.96E-05   72
 LONG-TERM GROUNDSHINE DOSE             1.0000  3.29E+04  1.43E+04  8.24E+04
1.16E+05  2.29E+05 NOT-FOUND  3.17E+05  9.36E-03   83
 LONG-TERM RESUSPENSION DOSE            1.0000  3.55E+03  1.54E+03  9.93E+03
1.25E+04  2.65E+04 NOT-FOUND  3.46E+04  9.36E-03   83
 WATER INGESTION DOSE                   1.0000  2.59E+01  2.30E+01  4.33E+01
5.07E+01  5.58E+01  5.82E+01  7.46E+01  5.71E-05  137
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  8.41E+02  7.57E+02  1.33E+03
1.58E+03  2.17E+03  2.38E+03  6.91E+03  3.71E-04   96
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.52E-01  3.25E-01  9.68E-01
1.21E+00  1.97E+00  2.21E+00  3.62E+00  8.56E-05  137
 INGESTION OF GRAINS                    1.0000  4.09E+00  6.49E-01  1.22E+01
1.50E+01  2.03E+01  2.07E+01  2.37E+01  1.96E-05   72
 INGESTION OF LEAF VEG                  1.0000  9.25E+00  1.57E+00  2.63E+01
4.10E+01  8.60E+01  9.70E+01  1.37E+02  1.96E-05   72
 INGESTION OF ROOT CROPS                1.0000  5.48E+00  8.83E-01  1.71E+01
2.06E+01  2.28E+01  2.38E+01  3.12E+01  1.96E-05   72
 INGESTION OF FRUITS                    1.0000  8.08E+00  1.46E+00  2.62E+01
3.06E+01  3.32E+01  3.44E+01  4.59E+01  1.96E-05   72
 INGESTION OF LEGUMES                   1.0000  5.06E+00  1.37E+00  1.44E+01
1.96E+01  2.13E+01  2.19E+01  2.75E+01  1.96E-05   72
 INGESTION OF BEEF                      1.0000  4.12E+01  1.66E+01  1.11E+02
1.37E+02  2.03E+02  2.08E+02  2.25E+02  5.14E-04  142
 INGESTION OF MILK                      1.0000  2.24E+01  1.05E+01  5.84E+01
7.11E+01  8.30E+01  8.87E+01  1.58E+02  1.71E-04  140
 INGESTION OF POULTRY                   1.0000  1.04E+01  4.35E+00  3.16E+01
4.21E+01  6.40E+01  7.11E+01  9.97E+01  1.96E-05   72
 INGESTION OF OTHER MEAT CROPS          1.0000  2.52E+00  1.21E+00  6.01E+00
7.50E+00  1.08E+01  1.14E+01  1.78E+01  1.96E-05   72

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  3.82E+09  2.96E+09  6.04E+09
6.81E+09  1.55E+10  3.13E+10  1.23E+11  3.71E-04   96
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 POP.-DEPENDENT COSTS                    1.0000  3.79E+09  2.91E+09  6.02E+09
6.77E+09  1.55E+10  3.13E+10  1.23E+11  3.71E-04   96
 FARM-DEPENDENT COSTS                    1.0000  3.43E+07  1.13E+07  1.11E+08
1.49E+08  2.52E+08  2.99E+08  3.79E+08  1.08E-03  127
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  8.66E+08  6.79E+08  1.39E+09
1.65E+09  3.96E+09  7.21E+09  2.63E+10  3.71E-04   96
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.45E+06  5.78E+05  3.89E+06
4.76E+06  7.28E+06  1.01E+07  1.54E+07  1.51E-03   96
 POP.-DEPENDENT INTERDICTION COST        1.0000  2.88E+09  2.07E+09  5.00E+09
5.84E+09  1.48E+10  2.07E+10  9.67E+10  3.71E-04   96
 FARM-DEPENDENT INTERDICTION COST        1.0000  2.81E+07  6.04E+06  9.00E+07
1.31E+08  2.23E+08  2.45E+08  3.62E+08  1.08E-03  127
 POP.-DEPENDENT CONDEMNATION COST        0.9730  3.71E+07  1.32E+07  1.08E+08
1.16E+08  1.38E+08  1.48E+08  4.72E+08  6.54E-06    1
 FARM-DEPENDENT CONDEMNATION COST        0.9625  1.07E+04  4.56E+03  3.00E+04
7.03E+04  7.58E+04 NOT-FOUND  7.73E+04  6.58E-03    1
 EMERGENCY PHASE COST                    1.0000  2.02E+06  1.79E+06  3.67E+06
4.61E+06  6.64E+06  7.20E+06  1.02E+07  2.85E-05  137
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  10:26:16    PAGE  16          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  2.33E+05  1.31E+04  8.05E+05
1.10E+06  2.09E+06  2.38E+06  4.14E+06  7.42E-04   82
 CROP DISPOSAL COST                      1.0000  4.52E+06  1.86E+06  1.10E+07
1.51E+07  3.14E+07  3.35E+07  4.63E+07  1.43E-04   82
XXXX
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XXXX

XXXX

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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.61E+05  8.20E+04  4.56E+05
5.34E+05  6.50E+05  7.84E+05  1.07E+06  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.52E-03  1.27E-03  2.50E-03
2.97E-03  3.15E-03  3.22E-03  3.63E-03  1.14E-04  103
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  10:26:16    PAGE  18          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.3347  1.10E-01  0.00E+00  4.19E-01
7.31E-01  9.55E-01  1.35E+00  3.61E+00  1.83E-03    6
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.63E+03  1.16E+03  3.29E+03
4.27E+03  7.39E+03  9.35E+03  1.60E+04  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.39E+02  3.97E+02  7.75E+02
9.55E+02  1.04E+03  1.06E+03  1.14E+03  4.28E-04    6
 ERL FAT/TOTAL               0-16.1 km  0.3347  1.10E-01  0.00E+00  4.19E-01
7.31E-01  9.55E-01  1.35E+00  3.61E+00  1.83E-03    6

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.3347  5.20E-04  0.00E+00  2.05E-03
2.32E-03  5.46E-03  1.06E-02  1.33E-02  4.08E-03    6
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.54E+04  2.40E+04  7.55E+04
1.05E+05  1.75E+05  2.54E+05  3.71E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.3347  6.60E-06  0.00E+00  2.57E-05
3.37E-05  4.73E-05  8.24E-05  2.16E-04  1.83E-03    6
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.13E-03  1.03E-03  1.94E-03
2.09E-03  2.34E-03  2.45E-03  2.91E-03  4.28E-04    6
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  10:26:16    PAGE  19          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.61E+03  2.50E+03  1.53E+04
2.06E+04  2.65E+04  2.95E+04  3.29E+04  3.71E-04   69
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.25E+02  2.11E+02  3.13E+02
3.25E+02  3.57E+02  3.71E+02  5.15E+02  2.59E-05  148

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.26E+05  5.63E+04  3.27E+05
4.01E+05  5.94E+05  6.85E+05  7.37E+05  4.48E-03   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.96E-04  3.57E-04  6.02E-04
6.81E-04  7.26E-04  7.39E-04  8.42E-04  2.59E-05  148

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.26E+05  5.63E+04  3.27E+05
4.01E+05  5.94E+05  6.85E+05  7.37E+05  4.48E-03   69
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.20E+05  5.02E+04  3.19E+05
3.88E+05  5.31E+05  5.63E+05  7.18E+05  3.71E-04   69
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.21E+02  3.59E+02  7.28E+02
7.75E+02  8.94E+02  9.51E+02  1.22E+03  1.86E-03   54
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.17E+05  4.86E+04  3.16E+05
3.78E+05  5.24E+05  5.57E+05  7.03E+05  3.71E-04   69
 LONG-TERM RESUSPENSION DOSE            1.0000  2.65E+03  1.07E+03  7.43E+03
9.54E+03  1.14E+04  1.21E+04  1.53E+04  3.71E-04   69
 WATER INGESTION DOSE                   1.0000  3.50E+02  3.12E+02  6.59E+02
7.37E+02  8.57E+02  9.15E+02  1.21E+03  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  5.16E+03  3.18E+03  1.03E+04
1.36E+04  3.55E+04  4.64E+04  1.10E+05  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.12E+00  1.86E+00  1.10E+01
1.38E+01  2.12E+01  2.32E+01  3.09E+01  6.56E-04   54
 INGESTION OF GRAINS                    1.0000  2.40E+00  8.28E-01  7.31E+00
8.80E+00  1.20E+01  1.33E+01  1.57E+01  1.74E-03   46
 INGESTION OF LEAF VEG                  1.0000  4.66E+00  2.34E+00  1.21E+01
1.62E+01  2.43E+01  2.74E+01  4.01E+01  4.44E-04   81
 INGESTION OF ROOT CROPS                1.0000  3.50E+00  1.41E+00  1.02E+01
1.14E+01  1.49E+01  1.68E+01  2.08E+01  1.74E-03   46
 INGESTION OF FRUITS                    1.0000  6.44E+00  3.29E+00  1.64E+01
2.07E+01  2.47E+01  2.67E+01  3.11E+01  1.74E-03   46
 INGESTION OF LEGUMES                   1.0000  3.92E+00  2.13E+00  1.01E+01
1.11E+01  1.41E+01  1.55E+01  1.81E+01  1.74E-03   46
 INGESTION OF BEEF                      1.0000  2.46E+01  9.87E+00  6.81E+01
1.01E+02  1.18E+02  1.27E+02  2.69E+02  5.71E-05  116
 INGESTION OF MILK                      1.0000  1.47E+01  5.19E+00  4.67E+01
6.42E+01  9.31E+01  1.05E+02  2.30E+02  5.71E-05  116
 INGESTION OF POULTRY                   1.0000  6.76E+00  3.99E+00  1.46E+01
1.86E+01  3.31E+01  3.62E+01  4.99E+01  4.44E-04   81
 INGESTION OF OTHER MEAT CROPS          1.0000  3.37E+00  1.34E+00  1.04E+01
1.22E+01  1.75E+01  2.03E+01  4.11E+01  5.71E-05  116
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ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  3.97E+10  1.96E+10  1.00E+11
1.65E+11  2.55E+11  2.89E+11  3.98E+11  4.11E-03   54
 POP.-DEPENDENT COSTS                    1.0000  3.94E+10  1.92E+10  9.66E+10
1.63E+11  2.55E+11  2.89E+11  3.98E+11  4.11E-03   54
 FARM-DEPENDENT COSTS                    1.0000  2.50E+08  1.40E+08  7.04E+08
7.69E+08  9.43E+08  1.01E+09  1.06E+09  5.14E-04  142
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  9.73E+09  4.03E+09  2.45E+10
3.72E+10  7.05E+10  9.26E+10  1.25E+11  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.14E+07  4.48E+06  3.09E+07
3.70E+07  5.24E+07  5.64E+07  7.10E+07  6.56E-04   54
 POP.-DEPENDENT INTERDICTION COST       1.0000  2.84E+10  1.17E+10  7.46E+10
1.15E+11  2.01E+11  2.55E+11  2.73E+11  4.11E-03   54
 FARM-DEPENDENT INTERDICTION COST       1.0000  2.06E+08  8.39E+07  5.92E+08
7.15E+08  7.91E+08  8.26E+08  9.53E+08  5.14E-04  142
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.32E+09  1.13E+09  2.64E+09
3.23E+09  4.34E+09  4.92E+09  5.78E+09  9.58E-04   86
 FARM-DEPENDENT CONDEMNATION COST       1.0000  4.54E+05  3.45E+05  1.02E+06
1.20E+06  1.75E+06 NOT-FOUND  1.90E+06  7.03E-03   16
 EMERGENCY PHASE COST                    1.0000  7.49E+06  7.12E+06  1.25E+07
1.46E+07  2.01E+07  2.04E+07  2.32E+07  2.59E-05  148
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  10:26:16    PAGE  20          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  9.77E+05  2.69E+05  2.71E+06
3.33E+06  4.91E+06  5.15E+06  6.26E+06  8.56E-05   47
 CROP DISPOSAL COST                      1.0000  3.11E+07  3.00E+07  5.32E+07
5.77E+07  6.96E+07  7.78E+07  8.18E+07  3.68E-03   47
XXXX
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1.08E+04  1.51E+04  1.74E+04  2.12E+04  1.28E-03   59
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.05E+02  2.79E+02  5.06E+02
5.42E+02  6.35E+02  6.80E+02  7.52E+02  1.14E-04   45

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  6.34E+04  3.29E+04  1.70E+05
2.29E+05  3.37E+05  3.77E+05  4.69E+05  1.28E-03   59

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.17E-04  6.61E-04  1.06E-03
1.11E-03  1.26E-03  1.33E-03  1.79E-03  1.14E-04   45
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  10:26:16    PAGE  22          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  4.28E+02  3.46E+02  8.04E+02
1.06E+03  1.71E+03  2.40E+03  3.33E+03  4.11E-03   54
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.63E+02  1.36E+02  3.01E+02
3.15E+02  3.50E+02  3.66E+02  4.40E+02  2.85E-04  111
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  7.88E+03  6.26E+03  1.58E+04
2.11E+04  3.47E+04  4.61E+04  7.11E+04  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.17E-04  3.65E-04  7.43E-04
8.44E-04  1.02E-03  1.04E-03  1.13E-03  2.85E-04  111
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES
```

"CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 6 OF 8:
LATE MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

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13-NOV-09  10:26:16    PAGE  23          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL                0-80.5 km  1.0000  2.49E+03  1.15E+03  6.64E+03
1.01E+04  1.34E+04  1.51E+04  1.92E+04  1.28E-03   59
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.42E+02  1.20E+02  2.08E+02
2.22E+02  2.56E+02  2.73E+02  3.28E+02  3.35E-06   20

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  5.56E+04  2.52E+04  1.57E+05
2.18E+05  3.15E+05  3.50E+05  4.28E+05  1.28E-03   59

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  3.00E-04  2.88E-04  4.56E-04
5.05E-04  5.29E-04  5.39E-04  6.73E-04  2.17E-06   20

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  5.56E+04  2.52E+04  1.57E+05
2.18E+05  3.15E+05  3.50E+05  4.28E+05  1.28E-03   59
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  5.46E+04  2.47E+04  1.53E+05
2.15E+05  3.15E+05  3.49E+05  4.27E+05  1.28E-03   59
 TOTAL INGESTION PATHWAYS DOSE           1.0000  1.54E+02  1.19E+02  2.91E+02
3.26E+02  4.08E+02 NOT-FOUND  4.26E+02  7.36E-03  118
 LONG-TERM GROUNDSHINE DOSE              1.0000  5.24E+04  2.37E+04  1.48E+05
2.09E+05  2.83E+05  3.21E+05  4.10E+05  1.28E-03   59
 LONG-TERM RESUSPENSION DOSE             1.0000  2.12E+03  9.35E+02  5.84E+03
7.77E+03  1.11E+04  1.28E+04  1.68E+04  1.28E-03   59
 WATER INGESTION DOSE                    1.0000  6.62E+01  5.90E+01  1.09E+02
1.21E+02  1.55E+02  1.72E+02  2.29E+02  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  8.55E+02  6.33E+02  1.27E+03
1.49E+03  5.33E+03  8.68E+03  2.02E+04  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  5.49E-01  3.06E-01  1.10E+00
1.76E+00  3.13E+00  3.33E+00  4.01E+00  6.56E-04   54
 INGESTION OF GRAINS                     1.0000  2.87E+00  5.57E-01  9.42E+00
1.20E+01  2.00E+01  2.15E+01  2.30E+01  2.60E-03   47
 INGESTION OF LEAF VEG                   1.0000  4.85E+00  1.33E+00  1.47E+01
2.03E+01  2.51E+01  2.74E+01  5.57E+01  1.96E-05   72
 INGESTION OF ROOT CROPS                 1.0000  3.90E+00  8.42E-01  1.17E+01
1.42E+01  2.17E+01  2.56E+01  3.02E+01  2.60E-03   47
 INGESTION OF FRUITS                     1.0000  5.99E+00  1.70E+00  1.84E+01
2.27E+01  3.25E+01  3.82E+01  4.45E+01  2.60E-03   47
 INGESTION OF LEGUMES                    1.0000  3.64E+00  1.23E+00  1.13E+01
1.37E+01  2.07E+01  2.32E+01  2.59E+01  2.60E-03   47
 INGESTION OF BEEF                       1.0000  3.33E+01  1.60E+01  8.67E+01
1.06E+02  1.40E+02  1.58E+02  1.78E+02  2.60E-03   47
 INGESTION OF MILK                       1.0000  2.14E+01  9.02E+00  5.59E+01
7.22E+01  1.03E+02  1.07E+02  1.28E+02  3.15E-04  120
 INGESTION OF POULTRY                    1.0000  8.30E+00  4.27E+00  1.92E+01
2.52E+01  3.64E+01  4.09E+01  6.67E+01  1.14E-04   84
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 INGESTION OF OTHER MEAT CROPS          1.0000  3.39E+00  1.60E+00  1.03E+01
1.19E+01  1.68E+01  1.95E+01  2.58E+01  1.71E-04   94

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  7.66E+09  4.92E+09  1.17E+10
1.67E+10  7.37E+10  9.65E+10  2.61E+11  4.11E-03   54
 POP.-DEPENDENT COSTS                   1.0000  7.56E+09  4.71E+09  1.17E+10
1.67E+10  7.37E+10  9.65E+10  2.61E+11  4.11E-03   54
 FARM-DEPENDENT COSTS                   1.0000  1.04E+08  3.72E+07  3.17E+08
3.99E+08  6.02E+08  6.90E+08  7.11E+08  6.56E-04   54
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.81E+09  1.03E+09  3.30E+09
4.35E+09  2.11E+10  2.78E+10  7.40E+10  4.11E-03   54
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.61E+06  1.07E+06  6.46E+06
8.69E+06  2.33E+07  2.93E+07  3.16E+07  6.56E-04   54
 POP.-DEPENDENT INTERDICTION COST       1.0000  5.57E+09  3.27E+09  1.05E+10
1.52E+10  5.51E+10  8.83E+10  1.87E+11  4.11E-03   54
 FARM-DEPENDENT INTERDICTION COST       1.0000  8.76E+07  2.31E+07  2.91E+08
3.57E+08  5.34E+08  6.07E+08  6.33E+08  4.00E-03   54
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.82E+08  1.17E+08  4.30E+08
5.40E+08  1.00E+09  1.03E+09  1.05E+09  3.24E-03    6
 FARM-DEPENDENT CONDEMNATION COST       0.9407  3.43E+04  9.19E+03  7.73E+04
8.23E+04  9.52E+04  1.24E+05  4.22E+05  5.14E-06    1
 EMERGENCY PHASE COST                   1.0000  1.54E+06  1.18E+06  3.26E+06
4.57E+06  5.55E+06  5.84E+06  7.86E+06  5.71E-05  139
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  10:26:16    PAGE  24          PROB                           QUANTILES
                           PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  5.58E+05  4.34E+04  1.79E+06
2.47E+06  3.66E+06  4.14E+06  5.55E+06  1.71E-04   47
 CROP DISPOSAL COST                     1.0000  1.34E+07  8.21E+06  3.22E+07
3.79E+07  5.36E+07  5.98E+07  7.81E+07  1.86E-03   54
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XXXX

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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  7.43E+02  4.23E+02  1.61E+03
2.23E+03  4.21E+03  6.12E+03  1.29E+04  4.11E-03   54
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.08E+02  1.03E+02  1.68E+02
2.01E+02  2.12E+02  2.17E+02  2.62E+02  1.68E-05  148

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.66E+04  1.03E+04  3.36E+04
4.49E+04  1.20E+05  1.79E+05  2.90E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.66E-04  2.47E-04  4.17E-04
4.97E-04  5.26E-04  5.39E-04  6.48E-04  1.68E-05  148
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  10:26:16    PAGE  26          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  7.50E+01  6.44E+01  1.28E+02
1.68E+02  2.70E+02  4.04E+02  6.20E+02  4.11E-03   54
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.95E+01  2.74E+01  5.35E+01
6.94E+01  7.48E+01  7.70E+01  8.34E+01  7.42E-04   86
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.60E+03  1.17E+03  3.07E+03
3.77E+03  6.15E+03  8.62E+03  1.38E+04  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.55E-05  7.14E-05  1.29E-04
1.59E-04  2.03E-04  2.06E-04  2.13E-04  7.42E-04   86
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
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  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  10:26:16    PAGE  27          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.67E+02  3.69E+02  1.41E+03
1.99E+03  4.09E+03  6.12E+03  1.23E+04  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.88E+01  7.47E+01  1.07E+02
1.12E+02  1.25E+02  1.31E+02  2.01E+02  3.79E-06   76

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.50E+04  8.47E+03  3.22E+04
4.26E+04  8.62E+04  1.52E+05  2.76E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.90E-04  1.69E-04  3.04E-04
3.14E-04  3.39E-04  3.50E-04  4.90E-04  3.79E-06   76

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.50E+04  8.47E+03  3.22E+04
4.26E+04  8.62E+04  1.52E+05  2.76E+05  4.11E-03   54
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.48E+04  8.23E+03  3.21E+04
4.26E+04  8.62E+04  1.52E+05  2.76E+05  4.11E-03   54
 TOTAL INGESTION PATHWAYS DOSE          1.0000  8.28E+01  3.96E+01  2.23E+02
2.72E+02  3.84E+02  4.41E+02  6.25E+02  1.71E-04   84
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.42E+04  7.91E+03  3.02E+04
4.10E+04  8.58E+04  1.52E+05  2.64E+05  4.11E-03   54
 LONG-TERM RESUSPENSION DOSE            1.0000  6.43E+02  3.43E+02  1.39E+03
1.96E+03  4.09E+03  6.12E+03  1.21E+04  4.11E-03   54
 WATER INGESTION DOSE                   1.0000  1.35E+01  1.12E+01  2.28E+01
2.65E+01  3.53E+01  3.92E+01  4.57E+01  1.86E-03   54
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  8.28E+01  7.30E+01  1.70E+02
2.03E+02  2.16E+02  2.22E+02  2.85E+02  9.99E-06   19
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.57E-02  2.49E-02  7.87E-02
9.45E-02  2.02E-01  2.10E-01  2.49E-01  2.85E-04  139
 INGESTION OF GRAINS                    1.0000  2.63E+00  3.68E-01  9.83E+00
1.15E+01  1.60E+01  1.85E+01  2.43E+01  1.51E-03   69
 INGESTION OF LEAF VEG                  1.0000  4.60E+00  7.15E-01  1.44E+01
2.18E+01  3.64E+01  4.15E+01  9.93E+01  1.71E-04   84
 INGESTION OF ROOT CROPS                1.0000  3.56E+00  5.58E-01  1.14E+01
1.45E+01  2.26E+01  2.56E+01  3.18E+01  1.51E-03   69
 INGESTION OF FRUITS                    1.0000  5.17E+00  7.63E-01  1.84E+01
2.31E+01  3.29E+01  3.74E+01  4.67E+01  1.51E-03   69
 INGESTION OF LEGUMES                   1.0000  3.17E+00  6.99E-01  1.07E+01
1.29E+01  1.96E+01  2.23E+01  2.74E+01  1.51E-03   69
 INGESTION OF BEEF                      1.0000  2.42E+01  8.64E+00  7.43E+01
9.66E+01  1.21E+02  1.32E+02  1.77E+02  5.14E-04  142
 INGESTION OF MILK                      1.0000  1.75E+01  6.87E+00  5.16E+01
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6.27E+01  8.41E+01  9.34E+01  1.06E+02  1.51E-03    9
 INGESTION OF POULTRY                    1.0000  7.02E+00  2.42E+00  2.13E+01
3.09E+01  4.98E+01  5.65E+01  1.29E+02  1.71E-04   84
 INGESTION OF OTHER MEAT CROPS           1.0000  1.55E+00  6.58E-01  4.05E+00
5.44E+00  8.96E+00  1.06E+01  2.30E+01  1.71E-04   84

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  6.74E+08  6.11E+08  1.05E+09
1.09E+09  1.20E+09  1.25E+09  1.98E+09  2.09E-06   26
 POP.-DEPENDENT COSTS                    1.0000  6.55E+08  5.86E+08  1.04E+09
1.09E+09  1.19E+09  1.24E+09  1.96E+09  2.09E-06   26
 FARM-DEPENDENT COSTS                    1.0000  1.91E+07  4.44E+06  6.22E+07
8.35E+07  2.07E+08  2.30E+08  2.38E+08  4.00E-03   54
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.62E+08  1.35E+08  3.02E+08
3.14E+08  3.45E+08  3.60E+08  4.89E+08  2.59E-05  148
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  2.01E+05  9.59E+04  4.46E+05
7.80E+05  1.08E+06  1.14E+06  1.40E+06  2.85E-04  139
 POP.-DEPENDENT INTERDICTION COST        1.0000  4.85E+08  4.39E+08  9.43E+08
1.02E+09  1.08E+09  1.11E+09  1.47E+09  2.09E-06   26
 FARM-DEPENDENT INTERDICTION COST        1.0000  1.64E+07  2.79E+06  5.51E+07
7.80E+07  2.02E+08  2.07E+08  2.25E+08  6.56E-04   54
 POP.-DEPENDENT CONDEMNATION COST        0.8577  7.58E+06  4.39E+06  1.26E+07
1.42E+07  1.90E+07  1.03E+08  1.25E+08  9.46E-04    1
 FARM-DEPENDENT CONDEMNATION COST        0.8593  1.04E+04  3.88E+03  9.84E+03
7.07E+04 NOT-FOUND NOT-FOUND  7.73E+04  1.64E-02    1
 EMERGENCY PHASE COST                    0.9914  1.63E+05  8.76E+04  4.03E+05
5.11E+05  8.08E+05  8.94E+05  1.13E+06  4.28E-04    6
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  10:26:16    PAGE  28          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  1.23E+05  4.99E+03  4.99E+05
6.83E+05  1.30E+06  1.53E+06  2.34E+06  2.28E-04   59
 CROP DISPOSAL COST                      1.0000  2.37E+06  1.05E+06  6.08E+06
9.96E+06  1.91E+07  2.39E+07  4.23E+07  2.37E-03   54
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13-NOV-09  10:26:16    PAGE  29          PROB                          QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.31E+02  3.68E+02  1.30E+03
1.77E+03  3.63E+03  4.66E+03  1.10E+04  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  9.41E+01  8.87E+01  1.36E+02
1.58E+02  2.02E+02  2.06E+02  2.33E+02  2.59E-05  148

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.41E+04  8.46E+03  2.92E+04
4.01E+04  8.49E+04  1.52E+05  2.46E+05  4.11E-03   54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.32E-04  2.17E-04  3.57E-04
4.04E-04  5.05E-04  5.13E-04  5.79E-04  2.59E-05  148
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  10:26:16   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  10:26:16    PAGE  30          PROB                          QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  4.97E+01  4.17E+01  9.00E+01
1.15E+02  1.87E+02  2.67E+02  3.96E+02  4.11E-03   54
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.94E+01  1.72E+01  3.40E+01
4.15E+01  5.16E+01  5.28E+01  5.73E+01  4.28E-04  127
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.10E+03  9.61E+02  2.10E+03
2.58E+03  4.04E+03  4.88E+03  8.87E+03  4.11E-03   54

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.97E-05  4.63E-05  9.27E-05
```

1.04E-04 1.17E-04 1.23E-04 1.47E-04 4.28E-04 127
  DATE AND TIME OF RUN = MACCS2 13-NOV-09 10:26:16 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 8 OF 8:
    LATE LOWLOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

13-NOV-09 10:26:16 PAGE 31 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL 0-80.5 km 1.0000 5.81E+02 3.33E+02 1.22E+03
1.66E+03 3.58E+03 4.64E+03 1.06E+04 4.11E-03 54
 CAN FAT/TOTAL 0-16.1 km 1.0000 7.47E+01 7.11E+01 1.06E+02
1.12E+02 1.26E+02 1.32E+02 1.94E+02 2.59E-05 148

POPULATION DOSE (Sv)
 L-EDEWBODY TOT LIF 0-80.5 km 1.0000 1.30E+04 7.62E+03 2.81E+04
3.70E+04 8.44E+04 1.52E+05 2.37E+05 4.11E-03 54

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL 0-16.1 km 1.0000 1.82E-04 1.63E-04 3.01E-04
3.13E-04 3.42E-04 3.56E-04 4.77E-04 2.59E-05 148

L-EDEWBODY POP. DOSE (Sv) 0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE 1.0000 1.30E+04 7.62E+03 2.81E+04
3.70E+04 8.44E+04 1.52E+05 2.37E+05 4.11E-03 54
 LONG-TERM DIRECT EXPOSURE PATHWAYS 1.0000 1.29E+04 7.45E+03 2.81E+04
3.70E+04 8.44E+04 1.52E+05 2.37E+05 4.11E-03 54
 TOTAL INGESTION PATHWAYS DOSE 1.0000 8.12E+01 3.44E+01 2.45E+02
3.11E+02 3.80E+02 4.14E+02 6.20E+02 1.71E-04 84
 LONG-TERM GROUNDSHINE DOSE 1.0000 1.25E+04 7.33E+03 2.80E+04
3.70E+04 8.44E+04 1.52E+05 2.31E+05 4.11E-03 54
 LONG-TERM RESUSPENSION DOSE 1.0000 3.54E+02 2.05E+02 7.84E+02
1.14E+03 2.29E+03 2.83E+03 6.58E+03 4.11E-03 54
 WATER INGESTION DOSE 1.0000 1.12E+01 1.02E+01 2.03E+01
2.19E+01 2.61E+01 2.81E+01 3.84E+01 1.86E-03 54
 POP.-DEPENDENT DECONTAMINATION DOSE 1.0000 6.50E+01 5.65E+01 1.09E+02
1.21E+02 1.52E+02 1.67E+02 2.24E+02 9.99E-06 19
 FARM-DEPENDENT DECONTAMINATION DOSE 1.0000 2.98E-02 2.15E-02 6.61E-02
8.23E-02 1.22E-01 1.41E-01 1.95E-01 1.06E-03 127
 INGESTION OF GRAINS 1.0000 2.77E+00 3.79E-01 1.00E+01
1.19E+01 1.78E+01 2.04E+01 2.53E+01 3.15E-04 58
 INGESTION OF LEAF VEG 1.0000 4.83E+00 5.60E-01 1.68E+01
2.50E+01 3.98E+01 4.69E+01 8.49E+01 1.71E-04 84
 INGESTION OF ROOT CROPS 1.0000 3.69E+00 5.33E-01 1.29E+01
1.97E+01 2.42E+01 2.63E+01 3.31E+01 3.15E-04 58
 INGESTION OF FRUITS 1.0000 5.43E+00 7.66E-01 1.92E+01
2.73E+01 3.45E+01 3.70E+01 4.87E+01 3.15E-04 58
 INGESTION OF LEGUMES 1.0000 3.21E+00 4.88E-01 1.07E+01
1.37E+01 2.10E+01 2.23E+01 2.83E+01 3.15E-04 58

```
 INGESTION OF BEEF                        1.0000  2.46E+01  8.02E+00  7.62E+01
1.03E+02  1.29E+02  1.42E+02  1.95E+02  5.14E-04  142
 INGESTION OF MILK                        1.0000  1.63E+01  6.18E+00  4.64E+01
6.24E+01  9.15E+01  1.02E+02  1.37E+02  1.71E-04   84
 INGESTION OF POULTRY                     1.0000  7.64E+00  2.32E+00  2.55E+01
3.51E+01  5.51E+01  6.54E+01  1.17E+02  1.71E-04   84
 INGESTION OF OTHER MEAT CROPS            1.0000  1.50E+00  5.90E-01  4.31E+00
6.08E+00  8.75E+00  9.93E+00  1.95E+01  1.71E-04   84

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                     1.0000  5.93E+08  5.47E+08  1.02E+09
1.06E+09  1.16E+09  1.20E+09  1.75E+09  4.18E-06   13
 POP.-DEPENDENT COSTS                     1.0000  5.79E+08  5.30E+08  1.02E+09
1.06E+09  1.15E+09  1.20E+09  1.74E+09  4.18E-06   13
 FARM-DEPENDENT COSTS                     1.0000  1.44E+07  3.52E+06  4.56E+07
6.03E+07  1.34E+08  1.77E+08  1.93E+08  4.00E-03   54
 POP.-DEPENDENT DECONTAMINATION COST      1.0000  1.44E+08  1.23E+08  2.71E+08
3.06E+08  3.31E+08  3.42E+08  4.42E+08  2.55E-05   12
 FARM-DEPENDENT DECONTAMINATION COST      1.0000  1.77E+05  8.74E+04  4.04E+05
7.28E+05  1.05E+06  1.11E+06  1.25E+06  1.20E-03   86
 POP.-DEPENDENT INTERDICTION COST         1.0000  4.28E+08  3.75E+08  8.25E+08
1.00E+09  1.06E+09  1.08E+09  1.31E+09  2.38E-05   18
 FARM-DEPENDENT INTERDICTION COST         1.0000  1.24E+07  2.29E+06  3.82E+07
5.61E+07  1.10E+08  1.25E+08  1.85E+08  6.56E-04   54
 POP.-DEPENDENT CONDEMNATION COST         0.8507  6.73E+06  3.95E+06  1.20E+07
1.35E+07  1.77E+07  1.99E+07  1.25E+08  4.57E-04    1
 FARM-DEPENDENT CONDEMNATION COST         0.7221  1.90E+03  2.01E+03  2.70E+03
4.27E+03 NOT-FOUND NOT-FOUND  8.49E+03  4.03E-02    1
 EMERGENCY PHASE COST                     0.9407  6.28E+04  1.62E+04  1.47E+05
1.87E+05  4.55E+05 NOT-FOUND  4.97E+05  7.85E-03    6
 INTERMEDIATE PHASE COST                  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  10:26:16    PAGE  32          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                       1.0000  1.04E+05  3.70E+03  4.00E+05
6.06E+05  1.15E+06  1.31E+06  2.07E+06  4.85E-04   54
 CROP DISPOSAL COST                       1.0000  1.72E+06  7.25E+05  4.00E+06
6.05E+06  1.48E+07  2.28E+07  3.98E+07  2.37E-03   54

Successful completion of MACCS2 was achieved!
This job required a total of     24.711 CPU seconds

   Input processing required      0.199 CPU seconds
         Simulation required     23.980 CPU seconds
  Output processing required      0.531 CPU seconds
```

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MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised 1/8/04, K. McFadden
P1:  ATMOS USER INPUT (UNIT 24) = atmbi3NS.INP


P2:  EARLY USER INPUT (UNIT 25) = earbi-noE.INP


P3: CHRONC USER INPUT (UNIT 26) = chrbiEC.INP


P4:  METEOROLOGY DATA (UNIT 28) = meti02.INP


P5:   SITE DATA INPUT (UNIT 29) = siteiEC.INP


P6:       LIST OUTPUT (UNIT 06) = conbi3NS-noE-Nmet02EC.OUT




USER INPUT IS READ FROM UNIT 24
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT

       *

    1  RIATNAM1001 'ATMOS INPUT FOR IPEC CALCULATIONS'

*******************************************************************************

       * GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/

       *

       * NUMBER OF RADIAL SPATIAL ELEMENTS

       *

    2  GENUMRAD001  15

       *

       *

       *

    3  GESPAEND001     0.32      1.61      3.22      4.83      6.44
```

```
  4  GESPAEND002     8.05      9.66     11.27     12.87     14.48
  5  GESPAEND003    16.09     32.19     48.28     64.37     80.47

*******************************************************************************
     * NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
     *
     * Number of pseudo-stable nuclides (used to truncate the decay chains)
     *
  6  ISNUMSTB001      27
     *
     * List of pseudo-stable nuclides
     *
  7  ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
  8  ISNAMSTB002     Xe-131m  (daughter of I-131)
  9  ISNAMSTB003     Xe-133m  (daughter of I-133)
 10  ISNAMSTB004     Xe-135m  (daughter of I-135)
 11  ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
 12  ISNAMSTB006     Sm-147   (daughter of Pm-147)
 13  ISNAMSTB007     U-234    (daughter of Pu-238)
 14  ISNAMSTB008     U-235    (daughter of Pu-239)
 15  ISNAMSTB009     U-236    (daughter of Pu-240)
 16  ISNAMSTB010     U-237    (daughter of Pu-241)
 17  ISNAMSTB011     Np-237   (daughter of Am-241)
 18  ISNAMSTB012     Rb-87    (daughter of Kr-87)
 19  ISNAMSTB013     Ba-137m  (daughter of Cs-137)
 20  ISNAMSTB014     Rb-88    (daughter of Kr-88)
 21  ISNAMSTB015     Y-91m    (daughter of Sr-91)
 22  ISNAMSTB016     Zr-93    (daughter of Y-93)
 23  ISNAMSTB017     Nb-93m   (daughter of Zr-93)
 24  ISNAMSTB018     Nb-95m   (daughter of Zr-95)
 25  ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
 26  ISNAMSTB020     Nb-97m   (daughter of Zr-97)
```

```
ISNAMSTB021     Tc-99    (daughter of Mo-99)
ISNAMSTB022     Rh-103m  (daughter of Ru-103)
ISNAMSTB023     Rh-106   (daughter of Ru-106)
ISNAMSTB024    Te-131    (daughter of Te-131m)
ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026     Pr-144m  (daughter of Ce-144)
ISNAMSTB027     Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
*
ISDEPFLA001    .FALSE.   .FALSE.
ISDEPFLA002    .TRUE.    .TRUE.
ISDEPFLA003    .TRUE.    .TRUE.
ISDEPFLA004    .TRUE.    .TRUE.
ISDEPFLA005    .TRUE.    .TRUE.
ISDEPFLA006    .TRUE.    .TRUE.
ISDEPFLA007    .TRUE.    .TRUE.
ISDEPFLA008    .TRUE.    .TRUE.
ISDEPFLA009    .TRUE.    .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
```

```
*
*                NUCNAM    IGROUP
*
45  ISOTPGRP001     Co-58        6
46  ISOTPGRP002     Co-60        6
47  ISOTPGRP003     Kr-85        1
48  ISOTPGRP004     Kr-85m       1
49  ISOTPGRP005     Kr-87        1
50  ISOTPGRP006     Kr-88        1
51  ISOTPGRP007     Rb-86        3
52  ISOTPGRP008     Sr-89        5
53  ISOTPGRP009     Sr-90        5
54  ISOTPGRP010     Sr-91        5
55  ISOTPGRP011     Sr-92        5
56  ISOTPGRP012     Y-90         7
57  ISOTPGRP013     Y-91         7
58  ISOTPGRP014     Y-92         7
59  ISOTPGRP015     Y-93         7
60  ISOTPGRP016     Zr-95        7
61  ISOTPGRP017     Zr-97        7
62  ISOTPGRP018     Nb-95        7
63  ISOTPGRP019     Mo-99        6
64  ISOTPGRP020     Tc-99m       6
65  ISOTPGRP021     Ru-103       6
66  ISOTPGRP022     Ru-105       6
67  ISOTPGRP023     Ru-106       6
68  ISOTPGRP024     Rh-105       6
69  ISOTPGRP025     Sb-127       4
70  ISOTPGRP026     Sb-129       4
71  ISOTPGRP027     Te-127       4
72  ISOTPGRP028     Te-127m      4
73  ISOTPGRP029     Te-129       4
```

74	ISOTPGRP030	Te-129m	4
75	ISOTPGRP031	Te-131m	4
76	ISOTPGRP032	Te-132	4
77	ISOTPGRP033	I-131	2
78	ISOTPGRP034	I-132	2
79	ISOTPGRP035	I-133	2
80	ISOTPGRP036	I-134	2
81	ISOTPGRP037	I-135	2
82	ISOTPGRP038	Xe-133	1
83	ISOTPGRP039	Xe-135	1
84	ISOTPGRP040	Cs-134	3
85	ISOTPGRP041	Cs-136	3
86	ISOTPGRP042	Cs-137	3
87	ISOTPGRP043	Ba-139	9
88	ISOTPGRP044	Ba-140	9
89	ISOTPGRP045	La-140	7
90	ISOTPGRP046	La-141	7
91	ISOTPGRP047	La-142	7
92	ISOTPGRP048	Ce-141	8
93	ISOTPGRP049	Ce-143	8
94	ISOTPGRP050	Ce-144	8
95	ISOTPGRP051	Pr-143	7
96	ISOTPGRP052	Nd-147	7
97	ISOTPGRP053	Np-239	8
98	ISOTPGRP054	Pu-238	8
99	ISOTPGRP055	Pu-239	8
100	ISOTPGRP056	Pu-240	8
101	ISOTPGRP057	Pu-241	8
102	ISOTPGRP058	Am-241	7
103	ISOTPGRP059	Cm-242	7
104	ISOTPGRP060	Cm-244	7

```
*****************************************************************************
       * WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
       *
       * WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
       *
  105  WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
       *
       * WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
       *
  106  WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)

*****************************************************************************
       * DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
       *
       * NUMBER OF PARTICLE SIZE GROUPS
       *
  107  DDNPSGRP001   1
       *
       * DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
       *
  108  DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)

*****************************************************************************
       * DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/,
/DISPZ/
       *
       * # of distances in plume-size tables--which can be used as an alternative to
the power-law model:
       * (to utilize the power-law model, set NUM_DIST to zero or delete the
following data card)
       *
  109  NUM_DIST001   0
       *
       * SIGMA = A * X ** B
       *
```

```
      * Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km

      * as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).

      * P-G CLASS:          A            B            C            D            E
       F
  110  DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
    0.0722
  111  DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
    0.9031
  112  DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
    0.2
  113  DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
    0.6020
      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1

      *

  114  DPYSCALE001    1.

      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,

      *  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.

      *  (Z1 / Z0) ** 0.2,   FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27

      *

  115  DPZSCALE001    1.27

****************************************************************************** *

      * EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/

      *

      * TIME BASE FOR EXPANSION FACTOR (SECONDS)

      *

  116  PMTIMBAS001    600.   (10 MINUTES)

      *

      * BREAK POINT FOR FORMULA CHANGE (SECONDS)

      *

  117  PMBRKPNT001   3600.   (1 HOUR)

      *

      * EXPONENTIAL EXPANSION FACTOR NUMBER 1

      *

  118  PMXPFAC1001      0.2
```

```
        *
        * EXPONENTIAL EXPANSION FACTOR NUMBER 2
        *
  119   PMXPFAC2001      0.25
*******************************************************************************
        * PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
        *
        * SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT
PLUME
        * (USED BY FUNCTION CAUGHT)
        *
  120   PRSCLCRW001   1.
        *
        * SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  121   PRSCLADP001   1.
        *
        * SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  122   PRSCLEFP001   1.
*******************************************************************************
        * RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
        ********************** RELEASE DATA BLOCK ************
        * SOURCE TERM NUMBER  1 OF 8
  123   RDATNAM2001 'NCF'
        *
        * TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
        * CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
        * PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
        *
```

```
124  RDOALARM001   1.26E+04
     *
     * NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
     *
125  RDNUMREL001          1
     *
     * SELECTION OF RISK DOMINANT PLUME
     *
126  RDMAXRIS001          1
     *
     * REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
     *
127  RDREFTIM001        0.5
     *
     * HEAT CONTENT OF THE RELEASE SEGMENTS (W)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
128  RDPLHEAT001   9.20E+05
     *
     * HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
129  RDPLHITE001        30.
     *
     * DURATION OF THE PLUME SEGMENTS (S)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
130  RDPLUDUR001   8.64E+04
     *
     * TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
```

```
*
RDPDELAY001   0.00E+00
*
* Initial value of sigma-y for each plume--Note: values required for each
plume
*
SIGYINIT001   9.9  (initial sigma-y = W/4.3 = 42.5/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each
plume
*
SIGZINIT001  31.1  (initial sigma-z = H/2.15 = 66.8/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   66.8
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
*
*               NUCNAM  CORINV (Bq)
*
RDCORINV001     Co-58    3.04E+16
```

145	RDCORINV002	Co-60	2.32E+16
146	RDCORINV003	Kr-85	3.87E+16
147	RDCORINV004	Kr-85m	8.52E+17
148	RDCORINV005	Kr-87	1.64E+18
149	RDCORINV006	Kr-88	2.30E+18
150	RDCORINV007	Rb-86	8.24E+15
151	RDCORINV008	Sr-89	3.09E+18
152	RDCORINV009	Sr-90	3.07E+17
153	RDCORINV010	Sr-91	3.87E+18
154	RDCORINV011	Sr-92	4.19E+18
155	RDCORINV012	Y-90	3.20E+17
156	RDCORINV013	Y-91	3.98E+18
157	RDCORINV014	Y-92	4.22E+18
158	RDCORINV015	Y-93	4.85E+18
159	RDCORINV016	Zr-95	5.38E+18
160	RDCORINV017	Zr-97	5.41E+18
161	RDCORINV018	Nb-95	5.45E+18
162	RDCORINV019	Mo-99	6.11E+18
163	RDCORINV020	Tc-99m	5.34E+18
164	RDCORINV021	Ru-103	4.85E+18
165	RDCORINV022	Ru-105	3.34E+18
166	RDCORINV023	Ru-106	1.69E+18
167	RDCORINV024	Rh-105	3.08E+18
168	RDCORINV025	Sb-127	3.45E+17
169	RDCORINV026	Sb-129	1.04E+18
170	RDCORINV027	Te-127	3.43E+17
171	RDCORINV028	Te-127m	4.47E+16
172	RDCORINV029	Te-129	1.02E+18
173	RDCORINV030	Te-129m	1.49E+17
174	RDCORINV031	Te-131m	4.64E+17
175	RDCORINV032	Te-132	4.54E+18

```
RDCORINV033     I-131    3.18E+18
RDCORINV034     I-132    4.64E+18
RDCORINV035     I-133    6.56E+18
RDCORINV036     I-134    7.19E+18
RDCORINV037     I-135    6.14E+18
RDCORINV038     Xe-133   6.25E+18
RDCORINV039     Xe-135   1.67E+18
RDCORINV040     Cs-134   7.16E+17
RDCORINV041     Cs-136   2.08E+17
RDCORINV042     Cs-137   4.15E+17
RDCORINV043     Ba-139   5.86E+18
RDCORINV044     Ba-140   5.58E+18
RDCORINV045     La-140   5.76E+18
RDCORINV046     La-141   5.34E+18
RDCORINV047     La-142   5.17E+18
RDCORINV048     Ce-141   5.31E+18
RDCORINV049     Ce-143   4.99E+18
RDCORINV050     Ce-144   4.19E+18
RDCORINV051     Pr-143   4.78E+18
RDCORINV052     Nd-147   2.12E+18
RDCORINV053     Np-239   6.53E+19
RDCORINV054     Pu-238   1.43E+16
RDCORINV055     Pu-239   1.22E+15
RDCORINV056     Pu-240   1.82E+15
RDCORINV057     Pu-241   4.08E+17
RDCORINV058     Am-241   5.03E+14
RDCORINV059     Cm-242   1.21E+17
RDCORINV060     Cm-244   1.29E+16
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*
```

```
  204  RDCORSCA001   1.0
       *
  205  RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
       *
       * RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
       *
       *  ISOTOPE GROUPS:
       *
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
  206  RDRELFRC001 9.6E-05 6.5E-06 2.7E-06 2.1E-06 6.1E-08 5.2E-07 3.3E-09 2.7E-08
1.8E-07
       *

*******************************************************************************
       * OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
       *
       * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
       *
  207  OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
       *
  208  OCIDEBUG001  0
       *
       * NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
       *
       *OCNUCOUT001  Cs-137
       *
       *              NUM0
  209  TYPE0NUMBER      0
       *
       *              INDREL   INDRAD
       *TYPE0OUT001      1        9
       *TYPE0OUT002      1       10         CCDF
```

```
*****************************************************************************
      * METEOROLOGICAL SAMPLING DATA BLOCK
      *
      * METEOROLOGICAL SAMPLING OPTION CODE:
      *
      * METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
      *          2, WEATHER CATEGORY BIN SAMPLING,
      *          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
      *          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
      *          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
      *
  210 M1METCOD001  2
      *
      * LAST SPATIAL INTERVAL FOR MEASURED WEATHER
      *
  211 M2LIMSPA001  15
      *
      * BOUNDARY WEATHER MIXING LAYER HEIGHT
      *
  212 M2BNDMXH001  1000.  (METERS)
      *
      * BOUNDARY WEATHER STABILITY CLASS INDEX
      *
  213 M2IBDSTB001  4      (D-STABILITY)
      *
      * BOUNDARY WEATHER RAIN RATE
      *
  214 M2BNDRAN001  0.     (MM/HR)
      *
      * BOUNDARY WEATHER WIND SPEED
      *
```

```
215  M2BNDWND001  5.     (M/S)
     *
     * NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
     *
216  M4NRNINT001  6
     *
     * ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
     *
     * NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
     *       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
     *
     *             2.0    4.0      7     10.0     20.0   40.0   MILES
     *
217  M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
     *
     * NUMBER OF RAIN INTENSITIY BREAKPOINTS
     *
218  M4NRINTN001   3
     *
     * RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
     *
219  M4RNRATE001   2.  4.  6.
     *
     * NUMBER OF SAMPLES PER BIN
     *
220  M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
     *
     * INITIAL SEED FOR RANDOM NUMBER GENERATOR
     *
221  M4IRSEED001   79
     .
```

```
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  449
NUMBER OF BLANK OR COMMENT RECORDS READ         =  227
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =  221
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =  221
*******************************************************************************
****************



Decay Chain #  Ba-139

Decay Chain #  Ba-140   La-140
Fraction of Ba-140  going to La-140  in this chain = 1.000000

Decay Chain #  Ce-143   Pr-143
Fraction of Ce-143  going to Pr-143  in this chain = 1.000000

Decay Chain #  Ce-144

Decay Chain #  Cm-242   Pu-238
Fraction of Cm-242  going to Pu-238  in this chain = 1.000000

Decay Chain #  Cm-244   Pu-240
Fraction of Cm-244  going to Pu-240  in this chain = 1.000000

Decay Chain #  Co-58

Decay Chain #  Co-60

Decay Chain #  Cs-134

Decay Chain #  Cs-136

Decay Chain #  Cs-137

Decay Chain #  I-133    Xe-133
Fraction of I-133   going to Xe-133  in this chain = 0.971000

Decay Chain #  I-134

Decay Chain #  I-135    Xe-135
Fraction of I-135   going to Xe-135  in this chain = 0.846000

Decay Chain #  Kr-85m   Kr-85
Fraction of Kr-85m  going to Kr-85   in this chain = 0.211000

Decay Chain #  Kr-87

Decay Chain #  Kr-88

Decay Chain #  La-141   Ce-141
Fraction of La-141  going to Ce-141  in this chain = 1.000000

Decay Chain #  La-142

Decay Chain #  Mo-99    Tc-99m
```

```
Fraction of Mo-99   going to Tc-99m  in this chain = 0.876000

Decay Chain #  Nd-147

Decay Chain #  Np-239   Pu-239
Fraction of Np-239  going to Pu-239  in this chain = 1.000000

Decay Chain #  Pu-241   Am-241
Fraction of Pu-241  going to Am-241  in this chain = 1.000000

Decay Chain #  Rb-86

Decay Chain #  Ru-103

Decay Chain #  Ru-105   Rh-105
Fraction of Ru-105  going to Rh-105  in this chain = 1.000000

Decay Chain #  Ru-106

Decay Chain #  Sb-127   Te-127
Fraction of Sb-127  going to Te-127  in this chain = 0.824000

Decay Chain #  Sb-127   Te-127m  Te-127
Fraction of Sb-127  going to Te-127m in this chain = 0.176000
Fraction of Sb-127  going to Te-127  in this chain = 0.171776
Fraction of Te-127m going to Te-127  in this chain = 0.976000

Decay Chain #  Sb-129   Te-129
Fraction of Sb-129  going to Te-129  in this chain = 0.775000

Decay Chain #  Sb-129   Te-129m  Te-129
Fraction of Sb-129  going to Te-129m in this chain = 0.225000
Fraction of Sb-129  going to Te-129  in this chain = 0.146250
Fraction of Te-129m going to Te-129  in this chain = 0.650000

Decay Chain #  Sr-89

Decay Chain #  Sr-90    Y-90
Fraction of Sr-90   going to Y-90    in this chain = 1.000000

Decay Chain #  Sr-91    Y-91
Fraction of Sr-91   going to Y-91    in this chain = 0.422000

Decay Chain #  Sr-92    Y-92
Fraction of Sr-92   going to Y-92    in this chain = 1.000000

Decay Chain #  Te-131m  I-131
Fraction of Te-131m going to I-131   in this chain = 0.778000

Decay Chain #  Te-132   I-132
Fraction of Te-132  going to I-132   in this chain = 1.000000

Decay Chain #  Y-93

Decay Chain #  Zr-95    Nb-95
Fraction of Zr-95   going to Nb-95   in this chain = 0.993000

Decay Chain #  Zr-97


RELEASED INVENTORY OF ALL PLUMES
Co-58      1.57E+10
Co-60      1.21E+10
```

Kr-85	3.72E+12
Kr-85m	1.28E+13
Kr-87	2.27E+11
Kr-88	1.18E+13
Rb-86	2.18E+10
Sr-89	1.87E+11
Sr-90	1.87E+10
Sr-91	9.84E+10
Sr-92	1.19E+10
Y-90	3.21E+09
Y-91	1.34E+10
Y-92	4.22E+10
Y-93	7.02E+09
Zr-95	1.77E+10
Zr-97	1.09E+10
Nb-95	1.80E+10
Mo-99	2.80E+12
Tc-99m	2.63E+12
Ru-103	2.50E+12
Ru-105	2.67E+11
Ru-106	8.78E+11
Rh-105	1.42E+12
Sb-127	6.62E+11
Sb-129	3.18E+11
Te-127	6.84E+11
Te-127m	9.40E+10
Te-129	5.40E+11
Te-129m	3.12E+11
Te-131m	7.38E+11
Te-132	8.57E+12
I-131	1.98E+13
I-132	9.38E+12
I-133	2.86E+13
I-134	3.54E+09
I-135	1.13E+13
Xe-133	5.64E+14
Xe-135	7.47E+13
Cs-134	1.93E+12
Cs-136	5.47E+11
Cs-137	1.12E+12
Ba-139	2.53E+09
Ba-140	9.77E+11
La-140	2.00E+11
La-141	2.12E+09
La-142	7.74E+07
Ce-141	1.42E+11
Ce-143	1.05E+11
Ce-144	1.13E+11
Pr-143	1.84E+10
Nd-147	6.78E+09
Np-239	1.52E+12
Pu-238	3.86E+08
Pu-239	3.30E+07
Pu-240	4.91E+07
Pu-241	1.10E+10
Am-241	1.68E+06
Cm-242	3.98E+08
Cm-244	4.26E+07

READING FROM A WEATHER FILE WITH THE FOLLOWING HEADER:
INDIAN POINT ENERGY CENTER METEORLOGICAL DATAFILE
Input file for the MACCS2 model using the year 2002
METEOROLOGICAL DATA FILE CONTAINS 398 HOURS OF OBSERVED RAIN DATA.

```
            ACCUMULATED RAIN MEASUREMENTS TOTALED  29.72 INCHES FOR THE YEAR.
            CONSTANT LID HEIGHTS (M) FOR 4 SEASONS =    1100   1600   1300   1100
            NON-ZERO WINDSPEEDS LESS THAN 0.5 M/S ARE SET TO 0.5 M/S
NUMTRI=         149


                                  * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND, 1 (0-1), 2 (1-2), 3
(2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                        WIND DIRECTION
  METBIN    1     2     3     4     5     6     7     8     9    10    11    12
13    14    15    16  TOTAL   PER CENT

 1 B   3  0.301 0.016 0.022 0.065 0.048 0.065 0.108 0.086 0.086 0.011 0.000 0.000
0.000 0.000 0.022 0.172  186     2.1233
 2 B   4  0.065 0.012 0.035 0.029 0.018 0.176 0.194 0.041 0.241 0.100 0.000 0.000
0.000 0.000 0.000 0.088  170     1.9406
 3 D   1  0.118 0.147 0.044 0.029 0.022 0.007 0.022 0.015 0.044 0.037 0.029 0.044
0.103 0.088 0.103 0.147  136     1.5525
 4 D   2  0.203 0.098 0.057 0.051 0.061 0.049 0.062 0.062 0.086 0.088 0.051 0.022
0.022 0.009 0.017 0.061 1381    15.7648
 5 D   3  0.164 0.055 0.025 0.036 0.062 0.085 0.105 0.086 0.175 0.137 0.020 0.006
0.001 0.001 0.000 0.042 1718    19.6119
 6 D   4  0.134 0.036 0.008 0.015 0.034 0.090 0.155 0.071 0.208 0.224 0.002 0.000
0.000 0.000 0.000 0.023 1195    13.6416
 7 D   5  0.135 0.041 0.041 0.000 0.068 0.095 0.162 0.041 0.297 0.122 0.000 0.000
0.000 0.000 0.000 0.000   74     0.8447
 9 E   1  0.113 0.075 0.058 0.042 0.048 0.023 0.043 0.051 0.100 0.090 0.065 0.045
0.045 0.061 0.052 0.090  691     7.8881
10 E   2  0.180 0.117 0.051 0.048 0.029 0.023 0.010 0.007 0.023 0.194 0.125 0.049
0.022 0.019 0.024 0.081 1046    11.9406
11 E   3  0.335 0.067 0.011 0.000 0.004 0.007 0.007 0.004 0.025 0.303 0.134 0.011
0.004 0.000 0.000 0.092  284     3.2420
12 E   4  0.441 0.000 0.000 0.000 0.000 0.029 0.000 0.000 0.029 0.353 0.059 0.000
0.000 0.000 0.000 0.088   34     0.3881
13 F   1  0.034 0.046 0.034 0.017 0.011 0.052 0.046 0.103 0.270 0.155 0.052 0.080
0.017 0.029 0.023 0.029  174     1.9863
14 F   2  0.010 0.015 0.010 0.015 0.005 0.000 0.005 0.010 0.085 0.480 0.235 0.045
0.060 0.010 0.015 0.000  200     2.2831
15 F   3  0.000 0.000 0.000 0.000 0.015 0.000 0.000 0.000 0.000 0.559 0.426 0.000
0.000 0.000 0.000 0.000   68     0.7763
16 F   4  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.600 0.400 0.000
0.000 0.000 0.000 0.000   10     0.1142
17 R1  3  0.087 0.034 0.027 0.023 0.010 0.010 0.023 0.050 0.128 0.309 0.094 0.030
0.020 0.034 0.037 0.084  298     3.4018
18 R1  6  0.078 0.020 0.020 0.020 0.000 0.000 0.020 0.059 0.020 0.098 0.176 0.137
0.098 0.020 0.078 0.157   51     0.5822
19 R1 11  0.115 0.031 0.010 0.000 0.021 0.010 0.000 0.021 0.115 0.312 0.063 0.052
0.031 0.052 0.052 0.115   96     1.0959
20 R1 16  0.067 0.093 0.027 0.000 0.000 0.013 0.013 0.013 0.133 0.280 0.093 0.040
0.053 0.040 0.053 0.080   75     0.8562
21 R1 32  0.175 0.043 0.033 0.014 0.000 0.009 0.014 0.014 0.128 0.261 0.052 0.043
0.038 0.024 0.043 0.109  211     2.4087
```

```
22 R1 65  0.190 0.084 0.022 0.011 0.022 0.017 0.014 0.020 0.095 0.187 0.073 0.036
0.031 0.017 0.022 0.159  358     4.0868
23 R2  3  0.069 0.086 0.017 0.017 0.000 0.000 0.034 0.034 0.121 0.466 0.000 0.034
0.017 0.017 0.017 0.069   58     0.6621
24 R2  6  0.200 0.000 0.000 0.200 0.200 0.000 0.000 0.000 0.000 0.200 0.000 0.000
0.000 0.000 0.000 0.200    5     0.0571
25 R2 11  0.000 0.000 0.286 0.000 0.000 0.000 0.000 0.000 0.286 0.143 0.000 0.000
0.000 0.143 0.143 0.000    7     0.0799
26 R2 16  0.100 0.100 0.000 0.000 0.000 0.000 0.000 0.000 0.100 0.300 0.200 0.100
0.100 0.000 0.000 0.000   10     0.1142
27 R2 32  0.200 0.100 0.100 0.000 0.000 0.000 0.000 0.100 0.050 0.150 0.000 0.050
0.100 0.000 0.000 0.150   20     0.2283
28 R2 65  0.070 0.023 0.163 0.023 0.000 0.023 0.000 0.023 0.116 0.302 0.093 0.047
0.023 0.093 0.000 0.000   43     0.4909
29 R3  3  0.000 0.130 0.043 0.087 0.000 0.000 0.000 0.000 0.043 0.478 0.130 0.000
0.000 0.000 0.000 0.087   23     0.2626
30 R3  6  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 1.000 0.000    1     0.0114
31 R3 11  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.500 0.000 0.500    2     0.0228
32 R3 16  0.250 0.250 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.250 0.000 0.000
0.250 0.000 0.000 0.000    4     0.0457
33 R3 32  0.125 0.125 0.125 0.000 0.000 0.000 0.000 0.000 0.000 0.125 0.000 0.000
0.250 0.000 0.000 0.250    8     0.0913
34 R3 65  0.105 0.158 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.368 0.105 0.000
0.053 0.105 0.000 0.105   19     0.2169
35 R4  3  0.097 0.000 0.032 0.032 0.000 0.000 0.032 0.032 0.097 0.355 0.097 0.032
0.032 0.065 0.032 0.065   31     0.3539
36 R4  6  0.500 0.000 0.000 0.500 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000    2     0.0228
37 R4 11  0.167 0.000 0.000 0.000 0.000 0.000 0.167 0.083 0.083 0.167 0.083 0.000
0.000 0.083 0.000 0.167   12     0.1370
38 R4 16  0.125 0.000 0.000 0.125 0.125 0.000 0.000 0.000 0.250 0.000 0.125 0.000
0.000 0.000 0.000 0.250    8     0.0913
39 R4 32  0.261 0.087 0.174 0.043 0.000 0.000 0.000 0.043 0.174 0.043 0.000 0.000
0.000 0.000 0.000 0.174   23     0.2626
40 R4 65  0.464 0.250 0.036 0.000 0.000 0.000 0.000 0.000 0.071 0.107 0.000 0.000
0.000 0.000 0.000 0.071   28     0.3196
41 ALL    0.159 0.067 0.034 0.032 0.038 0.050 0.068 0.051 0.122 0.176 0.059 0.024
0.019 0.016 0.018 0.067 8760
```

```
                              * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND (M/S), 1 (0-1), 2 (1-2),
3 (2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                WIND DIRECTION
  METBIN    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15
 16 TOTAL   PER CENT

 1 B   3    56    3    4   12    9   12   20   16   16    2    0    0    0    0    4
  32  186     2.1233
 2 B   4    11    2    6    5    3   30   33    7   41   17    0    0    0    0    0
  15  170     1.9406
 3 D   1    16   20    6    4    3    1    3    2    6    5    4    6   14   12   14
```

```
  20  136     1.5525
 4 D   2   280  136   79   70   84   68   86   85  119  122   70   31   31   12   24
  84 1381    15.7648
 5 D   3   281   94   43   62  107  146  181  147  301  235   35   11    1    1    0
  73 1718    19.6119
 6 D   4   160   43   10   18   41  107  185   85  248  268    2    0    0    0    0
  28 1195    13.6416
 7 D   5    10    3    3    0    5    7   12    3   22    9    0    0    0    0    0
   0   74     0.8447
 8 D   6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
 9 E   1    78   52   40   29   33   16   30   35   69   62   45   31   31   42   36
  62  691     7.8881
10 E   2   188  122   53   50   30   24   10    7   24  203  131   51   23   20   25
  85 1046    11.9406
11 E   3    95   19    3    0    1    2    2    1    7   86   38    3    1    0    0
  26  284     3.2420
12 E   4    15    0    0    0    0    1    0    0    1   12    2    0    0    0    0
   3   34     0.3881
13 F   1     6    8    6    3    2    9    8   18   47   27    9   14    3    5    4
   5  174     1.9863
14 F   2     2    3    2    3    1    0    1    2   17   96   47    9   12    2    3
   0  200     2.2831
15 F   3     0    0    0    0    1    0    0    0    0   38   29    0    0    0    0
   0   68     0.7763
16 F   4     0    0    0    0    0    0    0    0    0    6    4    0    0    0    0
   0   10     0.1142
17 R1  3    26   10    8    7    3    3    7   15   38   92   28    9    6   10   11
  25  298     3.4018
18 R1  6     4    1    1    1    0    0    1    3    1    5    9    7    5    1    4
   8   51     0.5822
19 R1 11    11    3    1    0    2    1    0    2   11   30    6    5    3    5    5
  11   96     1.0959
20 R1 16     5    7    2    0    0    1    1    1   10   21    7    3    4    3    4
   6   75     0.8562
21 R1 32    37    9    7    3    0    2    3    3   27   55   11    9    8    5    9
  23  211     2.4087
22 R1 65    68   30    8    4    8    6    5    7   34   67   26   13   11    6    8
  57  358     4.0868
23 R2  3     4    5    1    1    0    0    2    2    7   27    0    2    1    1    1
   4   58     0.6621
24 R2  6     1    0    0    1    1    0    0    0    0    1    0    0    0    0    0
   1    5     0.0571
25 R2 11     0    0    2    0    0    0    0    0    2    1    0    0    0    1    1
   0    7     0.0799
26 R2 16     1    1    0    0    0    0    0    0    1    3    2    1    1    0    0
   0   10     0.1142
27 R2 32     4    2    2    0    0    0    0    2    1    3    0    1    2    0    0
   3   20     0.2283
28 R2 65     3    1    7    1    0    1    0    1    5   13    4    2    1    4    0
   0   43     0.4909
29 R3  3     0    3    1    2    0    0    0    0    1   11    3    0    0    0    0
   2   23     0.2626
30 R3  6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    1
   0    1     0.0114
31 R3 11     0    0    0    0    0    0    0    0    0    0    0    0    0    1    0
   1    2     0.0228
32 R3 16     1    1    0    0    0    0    0    0    0    1    0    0    1    0    0
   0    4     0.0457
33 R3 32     1    1    1    0    0    0    0    0    0    1    0    0    2    0    0
   2    8     0.0913
34 R3 65     2    3    0    0    0    0    0    0    0    7    2    0    1    2    0
   2   19     0.2169
```

```
35 R4  3     3    0    1    1    0    0    1    1    3   11    3    1    1    2    1
   2   31     0.3539
36 R4  6     1    0    0    1    0    0    0    0    0    0    0    0    0    0    0
   0    2     0.0228
37 R4 11     2    0    0    0    0    0    2    1    1    2    1    0    0    1    0
   2   12     0.1370
38 R4 16     1    0    0    1    1    0    0    0    2    0    1    0    0    0    0
   2    8     0.0913
39 R4 32     6    2    4    1    0    0    0    1    4    1    0    0    0    0    0
   4   23     0.2626
40 R4 65    13    7    1    0    0    0    0    0    2    3    0    0    0    0    0
   2   28     0.3196


              * * * * SUMMARIES * * * *

   R      194   86   47   24   15   14   22   39  150  355  103   53   47   42   45
157 1393   15.9018
   B       67    5   10   17   12   42   53   23   57   19    0    0    0    0    4
 47  356    4.0639
   D      747  296  141  154  240  329  467  322  696  639  111   48   46   25   38
205 4504   51.4155
   E      376  193   96   79   64   43   42   43  101  363  216   85   55   62   61
176 2055   23.4589
   F        8   11    8    6    4    9    9   20   64  167   89   23   15    7    7
  5  452    5.1598
      1   100   80   52   36   38   27   44   58  122   94   58   51   48   59   54
 87 1008   11.5068
      2   476  262  137  128  119   93  100   98  160  421  248   91   66   34   55
173 2661   30.3767
      3   426  115   47   69  114  158  197  157  324  361  102   14    2    1    1
127 2215   25.2854
      4   185   45   15   23   44  136  217   91  289  303    8    0    0    0    0
 46 1402   16.0046
      5    11    3    4    0    5    9   13    4   23    9    0    0    0    0    0
  0   81    0.9247
      6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
  0    0    0.0000

                * * * * * BIN WINDROSE SUMMARY * * * * *

  BIN                            DIRECTION
                                    TOTAL
          1      2      3      4      5      6      7      8      9     10     11
 12     13     14     15     16
    1  0.301  0.016  0.022  0.065  0.048  0.065  0.108  0.086  0.086  0.011  0.000
0.000  0.000  0.000  0.022  0.172  1.000000
    2  0.065  0.012  0.035  0.029  0.018  0.176  0.194  0.041  0.241  0.100  0.000
0.000  0.000  0.000  0.000  0.088  1.000000
    3  0.118  0.147  0.044  0.029  0.022  0.007  0.022  0.015  0.044  0.037  0.029
0.044  0.103  0.088  0.103  0.147  1.000000
    4  0.203  0.098  0.057  0.051  0.061  0.049  0.062  0.062  0.086  0.088  0.051
0.022  0.022  0.009  0.017  0.061  1.000000
    5  0.164  0.055  0.025  0.036  0.062  0.085  0.105  0.086  0.175  0.137  0.020
0.006  0.001  0.001  0.000  0.042  1.000000
    6  0.134  0.036  0.008  0.015  0.034  0.090  0.155  0.071  0.208  0.224  0.002
0.000  0.000  0.000  0.000  0.023  1.000000
    7  0.135  0.041  0.041  0.000  0.068  0.095  0.162  0.041  0.297  0.122  0.000
0.000  0.000  0.000  0.000  0.000  1.000000
    8  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000000
    9  0.113  0.075  0.058  0.042  0.048  0.023  0.043  0.051  0.100  0.090  0.065
0.045  0.045  0.061  0.052  0.090  1.000000
```

```
   10  0.180  0.117  0.051  0.048  0.029  0.023  0.010  0.007  0.023  0.194  0.125
0.049  0.022  0.019  0.024  0.081  1.000000
   11  0.335  0.067  0.011  0.000  0.004  0.007  0.007  0.004  0.025  0.303  0.134
0.011  0.004  0.000  0.000  0.092  1.000000
   12  0.441  0.000  0.000  0.000  0.000  0.029  0.000  0.000  0.029  0.353  0.059
0.000  0.000  0.000  0.000  0.088  1.000000
   13  0.034  0.046  0.034  0.017  0.011  0.052  0.046  0.103  0.270  0.155  0.052
0.080  0.017  0.029  0.023  0.029  1.000000
   14  0.010  0.015  0.010  0.015  0.005  0.000  0.005  0.010  0.085  0.480  0.235
0.045  0.060  0.010  0.015  0.000  1.000000
   15  0.000  0.000  0.000  0.000  0.015  0.000  0.000  0.000  0.000  0.559  0.426
0.000  0.000  0.000  0.000  0.000  1.000000
   16  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.600  0.400
0.000  0.000  0.000  0.000  0.000  1.000000
   17  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   18  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   19  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   20  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   21  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   22  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   23  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   24  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   25  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   26  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   27  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   28  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   29  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   30  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   31  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   32  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   33  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   34  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   35  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   36  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   37  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   38  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   39  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   40  0.139  0.062  0.034  0.017  0.011  0.010  0.016  0.028  0.108  0.255  0.074
0.038  0.034  0.030  0.032  0.113  1.000000
   41  0.159  0.067  0.034  0.032  0.038  0.050  0.068  0.051  0.122  0.176  0.059
```

```
0.024  0.019  0.016  0.018  0.067  1.000000


******** BEGINNING OF CHANGE CASE   1 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  2 OF 8

       *

  222  RDATNAM2001 'EARLY HIGH'

********   RECORD NUMBER   222 REPLACES RECORD NUMBER   123   ********
       *

  223  RDOALARM001   1.27E+04

********   RECORD NUMBER   223 REPLACES RECORD NUMBER   124   ********
  224  RDNUMREL001   1

********   RECORD NUMBER   224 REPLACES RECORD NUMBER   125   ********
  225  RDMAXRIS001   1

********   RECORD NUMBER   225 REPLACES RECORD NUMBER   126   ********
  226  RDREFTIM001   0.0

********   RECORD NUMBER   226 REPLACES RECORD NUMBER   127   ********
  227  RDPLHEAT001   1.03E+06

********   RECORD NUMBER   227 REPLACES RECORD NUMBER   128   ********
  228  RDPLHITE001   30.

********   RECORD NUMBER   228 REPLACES RECORD NUMBER   129   ********
  229  RDPLUDUR001   7.92E+04

********   RECORD NUMBER   229 REPLACES RECORD NUMBER   130   ********
  230  RDPDELAY001   1.20E+04

********   RECORD NUMBER   230 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  231  RDRELFRC001 6.4E-01 1.6E-01 1.5E-01 1.5E-01 1.6E-02 6.5E-02 5.6E-04 3.0E-03
3.1E-02
********   RECORD NUMBER   231 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   1 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   1
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.97E+15
Co-60      1.51E+15
Kr-85      2.48E+16
```

Kr-85m	3.26E+17
Kr-87	1.71E+17
Kr-88	6.53E+17
Rb-86	1.23E+15
Sr-89	4.93E+16
Sr-90	4.91E+15
Sr-91	4.86E+16
Sr-92	2.86E+16
Y-90	3.47E+14
Y-91	2.26E+15
Y-92	2.19E+16
Y-93	2.16E+15
Zr-95	3.01E+15
Zr-97	2.64E+15
Nb-95	3.05E+15
Mo-99	3.83E+17
Tc-99m	3.45E+17
Ru-103	3.14E+17
Ru-105	1.29E+17
Ru-106	1.10E+17
Rh-105	1.98E+17
Sb-127	5.05E+16
Sb-129	9.14E+16
Te-127	5.08E+16
Te-127m	6.71E+15
Te-129	1.08E+17
Te-129m	2.24E+16
Te-131m	6.44E+16
Te-132	6.61E+17
I-131	5.03E+17
I-132	6.96E+17
I-133	9.39E+17
I-134	8.25E+16
I-135	6.93E+17
Xe-133	3.94E+18
Xe-135	9.85E+17
Cs-134	1.07E+17
Cs-136	3.10E+16
Cs-137	6.22E+16
Ba-139	3.40E+16
Ba-140	1.72E+17
La-140	1.27E+16
La-141	1.66E+15
La-142	6.47E+14
Ce-141	1.59E+16
Ce-143	1.40E+16
Ce-144	1.26E+16
Pr-143	2.76E+15
Nd-147	1.18E+15
Np-239	1.88E+17
Pu-238	4.29E+13
Pu-239	3.66E+12
Pu-240	5.46E+12
Pu-241	1.22E+15
Am-241	2.82E+11
Cm-242	6.77E+13
Cm-244	7.22E+12

******** BEGINNING OF CHANGE CASE 2 USER INPUT ********
********** RELEASE DATA BLOCK **********

* SOURCE TERM NUMBER 3 OF 8

```
       *

  232  RDATNAM2001 'EARLY MEDIUM'

********   RECORD NUMBER   232 REPLACES RECORD NUMBER   123   ********
       *

  233  RDOALARM001   9.18E+03

********   RECORD NUMBER   233 REPLACES RECORD NUMBER   124   ********
  234  RDNUMREL001   1

********   RECORD NUMBER   234 REPLACES RECORD NUMBER   125   ********
  235  RDMAXRIS001   1

********   RECORD NUMBER   235 REPLACES RECORD NUMBER   126   ********
  236  RDREFTIM001   0.0

********   RECORD NUMBER   236 REPLACES RECORD NUMBER   127   ********
  237  RDPLHEAT001   1.07E+06

********   RECORD NUMBER   237 REPLACES RECORD NUMBER   128   ********
  238  RDPLHITE001   30.

********   RECORD NUMBER   238 REPLACES RECORD NUMBER   129   ********
  239  RDPLUDUR001   8.21E+04

********   RECORD NUMBER   239 REPLACES RECORD NUMBER   130   ********
  240  RDPDELAY001   9.22E+03

********   RECORD NUMBER   240 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  241  RDRELFRC001 9.9E-01 1.3E-02 1.2E-02 2.7E-02 8.5E-04 3.0E-02 5.2E-05 3.1E-04
2.0E-02
********   RECORD NUMBER   241 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   2 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   2
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      9.11E+14
Co-60      6.96E+14
Kr-85      3.83E+16
Kr-85m     5.68E+17
Kr-87      4.02E+17
Kr-88      1.22E+18
Rb-86      9.85E+13
Sr-89      2.62E+15
Sr-90      2.61E+14
Sr-91      2.73E+15
```

```
Sr-92      1.85E+15
Y-90       2.33E+13
Y-91       2.08E+14
Y-92       1.14E+15
Y-93       2.12E+14
Zr-95      2.79E+14
Zr-97      2.53E+14
Nb-95      2.83E+14
Mo-99      1.78E+17
Tc-99m     1.60E+17
Ru-103     1.45E+17
Ru-105     6.72E+16
Ru-106     5.07E+16
Rh-105     9.19E+16
Sb-127     9.14E+15
Sb-129     1.86E+16
Te-127     9.18E+15
Te-127m    1.21E+15
Te-129     2.13E+16
Te-129m    4.03E+15
Te-131m    1.18E+16
Te-132     1.20E+17
I-131      4.10E+16
I-132      9.30E+16
I-133      7.83E+16
I-134      1.23E+16
I-135      6.10E+16
Xe-133     6.10E+18
Xe-135     1.37E+18
Cs-134     8.59E+15
Cs-136     2.48E+15
Cs-137     4.98E+15
Ba-139     3.23E+16
Ba-140     1.11E+17
La-140     5.09E+15
La-141     1.77E+14
La-142     8.50E+13
Ce-141     1.64E+15
Ce-143     1.47E+15
Ce-144     1.30E+15
Pr-143     2.55E+14
Nd-147     1.09E+14
Np-239     1.96E+16
Pu-238     4.43E+12
Pu-239     3.78E+11
Pu-240     5.64E+11
Pu-241     1.26E+14
Am-241     2.62E+10
Cm-242     6.29E+12
Cm-244     6.71E+11


******** BEGINNING OF CHANGE CASE   3 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  4 OF 8

       *

  242  RDATNAM2001 'EARLY LOW'

********   RECORD NUMBER   242 REPLACES RECORD NUMBER   123   ********
       *
```

```
  243  RDOALARM001   9.31E+03

********   RECORD NUMBER   243 REPLACES RECORD NUMBER   124   ********
  244  RDNUMREL001   1

********   RECORD NUMBER   244 REPLACES RECORD NUMBER   125   ********
  245  RDMAXRIS001   1

********   RECORD NUMBER   245 REPLACES RECORD NUMBER   126   ********
  246  RDREFTIM001   0.0

********   RECORD NUMBER   246 REPLACES RECORD NUMBER   127   ********
  247  RDPLHEAT001   1.11E+06

********   RECORD NUMBER   247 REPLACES RECORD NUMBER   128   ********
  248  RDPLHITE001   30.

********   RECORD NUMBER   248 REPLACES RECORD NUMBER   129   ********
  249  RDPLUDUR001   8.49E+04

********   RECORD NUMBER   249 REPLACES RECORD NUMBER   130   ********
  250  RDPDELAY001   9.90E+03

********   RECORD NUMBER   250 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  251  RDRELFRC001 2.4E-01 2.0E-03 1.6E-03 2.9E-03 9.0E-05 3.0E-03 5.2E-06 3.1E-05
1.9E-03
********   RECORD NUMBER   251 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   3 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   3
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      9.11E+13
Co-60      6.96E+13
Kr-85      9.29E+15
Kr-85m     1.34E+17
Kr-87      8.79E+16
Kr-88      2.82E+17
Rb-86      1.31E+13
Sr-89      2.78E+14
Sr-90      2.76E+13
Sr-91      2.85E+14
Sr-92      1.87E+14
Y-90       2.43E+12
Y-91       2.08E+13
Y-92       1.22E+14
Y-93       2.09E+13
Zr-95      2.79E+13
Zr-97      2.51E+13
```

```
Nb-95      2.83E+13
Mo-99      1.78E+16
Tc-99m     1.60E+16
Ru-103     1.45E+16
Ru-105     6.52E+15
Ru-106     5.07E+15
Rh-105     9.18E+15
Sb-127     9.80E+14
Sb-129     1.94E+15
Te-127     9.85E+14
Te-127m    1.30E+14
Te-129     2.24E+15
Te-129m    4.32E+14
Te-131m    1.26E+15
Te-132     1.28E+16
I-131      6.31E+15
I-132      1.14E+16
I-133      1.20E+16
I-134      1.63E+15
I-135      9.20E+15
Xe-133     1.48E+18
Xe-135     3.27E+17
Cs-134     1.15E+15
Cs-136     3.31E+14
Cs-137     6.64E+14
Ba-139     2.79E+15
Ba-140     1.05E+16
La-140     5.17E+14
La-141     1.71E+13
La-142     7.81E+12
Ce-141     1.64E+14
Ce-143     1.46E+14
Ce-144     1.30E+14
Pr-143     2.56E+13
Nd-147     1.09E+13
Np-239     1.96E+15
Pu-238     4.43E+11
Pu-239     3.78E+10
Pu-240     5.64E+10
Pu-241     1.26E+13
Am-241     2.62E+09
Cm-242     6.29E+11
Cm-244     6.71E+10


******** BEGINNING OF CHANGE CASE   4 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  5 OF 8

       *

  252  RDATNAM2001 'LATE HIGH'

********   RECORD NUMBER   252 REPLACES RECORD NUMBER   123   ********
       *

  253  RDOALARM001   5.58E+03

********   RECORD NUMBER   253 REPLACES RECORD NUMBER   124   ********
  254  RDNUMREL001   1

********   RECORD NUMBER   254 REPLACES RECORD NUMBER   125   ********
```

```
  255  RDMAXRIS001   1

********   RECORD NUMBER   255 REPLACES RECORD NUMBER   126   ********
  256  RDREFTIM001   0.5

********   RECORD NUMBER   256 REPLACES RECORD NUMBER   127   ********
  257  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   257 REPLACES RECORD NUMBER   128   ********
  258  RDPLHITE001   30.

********   RECORD NUMBER   258 REPLACES RECORD NUMBER   129   ********
  259  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   259 REPLACES RECORD NUMBER   130   ********
  260  RDPDELAY001   7.38E+04

********   RECORD NUMBER   260 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  261  RDRELFRC001 9.9E-01 1.2E-01 2.3E-02 4.8E-03 2.1E-04 3.7E-03 1.3E-05 1.2E-04
9.1E-04
********   RECORD NUMBER   261 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   4 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   4
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.11E+14
Co-60      8.58E+13
Kr-85      3.83E+16
Kr-85m     5.52E+15
Kr-87      3.29E+10
Kr-88      8.17E+14
Rb-86      1.80E+14
Sr-89      6.37E+14
Sr-90      6.45E+13
Sr-91      7.59E+13
Sr-92      2.16E+11
Y-90       2.21E+13
Y-91       5.30E+13
Y-92       4.34E+12
Y-93       6.78E+12
Zr-95      6.89E+13
Zr-97      1.85E+13
Nb-95      7.08E+13
Mo-99      1.61E+16
Tc-99m     1.54E+16
Ru-103     1.75E+16
Ru-105     7.74E+13
Ru-106     6.24E+15
Rh-105     6.95E+15
```

```
Sb-127     1.30E+15
Sb-129     2.71E+13
Te-127     1.39E+15
Te-127m    2.15E+14
Te-129     4.85E+14
Te-129m    7.01E+14
Te-131m    1.05E+15
Te-132     1.63E+16
I-131      3.40E+17
I-132      1.69E+16
I-133      2.67E+17
I-134      5.97E+06
I-135      2.44E+16
Xe-133     5.25E+18
Xe-135     2.23E+17
Cs-134     1.64E+16
Cs-136     4.45E+15
Cs-137     9.54E+15
Ba-139     4.25E+08
Ba-140     4.72E+15
La-140     2.13E+15
La-141     2.25E+11
La-142     3.03E+07
Ce-141     6.19E+14
Ce-143     3.03E+14
Ce-144     5.01E+14
Pr-143     8.69E+13
Nd-147     2.53E+13
Np-239     5.26E+15
Pu-238     1.72E+12
Pu-239     1.47E+11
Pu-240     2.18E+11
Pu-241     4.90E+13
Am-241     6.83E+09
Cm-242     1.56E+12
Cm-244     1.68E+11


******** BEGINNING OF CHANGE CASE   5 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  6 OF 8

       *

  262  RDATNAM2001 'LATE MEDIUM'

********   RECORD NUMBER   262 REPLACES RECORD NUMBER   123   ********
       *

  263  RDOALARM001   7.17E+03

********   RECORD NUMBER   263 REPLACES RECORD NUMBER   124   ********
  264  RDNUMREL001   1

********   RECORD NUMBER   264 REPLACES RECORD NUMBER   125   ********
  265  RDMAXRIS001   1

********   RECORD NUMBER   265 REPLACES RECORD NUMBER   126   ********
  266  RDREFTIM001   0.5

********   RECORD NUMBER   266 REPLACES RECORD NUMBER   127   ********
  267  RDPLHEAT001   9.20E+05
```

```
********   RECORD NUMBER   267 REPLACES RECORD NUMBER   128   ********
  268  RDPLHITE001   30.

********   RECORD NUMBER   268 REPLACES RECORD NUMBER   129   ********
  269  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   269 REPLACES RECORD NUMBER   130   ********
  270  RDPDELAY001   7.70E+04

********   RECORD NUMBER   270 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  271  RDRELFRC001 8.2E-01 1.5E-02 4.3E-03 1.5E-03 8.0E-05 1.4E-03 5.1E-06 4.7E-05
3.5E-04
********   RECORD NUMBER   271 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   5 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   5
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      4.20E+13
Co-60      3.25E+13
Kr-85      3.17E+16
Kr-85m     3.99E+15
Kr-87      1.68E+10
Kr-88      5.45E+14
Rb-86      3.36E+13
Sr-89      2.43E+14
Sr-90      2.46E+13
Sr-91      2.71E+13
Sr-92      6.55E+10
Y-90       8.59E+12
Y-91       2.08E+13
Y-92       1.40E+12
Y-93       2.50E+12
Zr-95      2.70E+13
Zr-97      7.02E+12
Nb-95      2.78E+13
Mo-99      6.02E+15
Tc-99m     5.79E+15
Ru-103     6.63E+15
Ru-105     2.55E+13
Ru-106     2.36E+15
Rh-105     2.59E+15
Sb-127     4.03E+14
Sb-129     7.35E+12
Te-127     4.33E+14
Te-127m    6.72E+13
Te-129     1.50E+14
Te-129m    2.19E+14
Te-131m    3.22E+14
```

```
Te-132     5.07E+15
I-131      4.24E+16
I-132      5.22E+15
I-133      3.23E+16
I-134      3.70E+05
I-135      2.78E+15
Xe-133     4.27E+18
Xe-135     1.17E+17
Cs-134     3.07E+15
Cs-136     8.31E+14
Cs-137     1.78E+15
Ba-139     1.05E+08
Ba-140     1.81E+15
La-140     8.36E+14
La-141     7.54E+10
La-142     7.97E+06
Ce-141     2.42E+14
Ce-143     1.16E+14
Ce-144     1.96E+14
Pr-143     3.42E+13
Nd-147     9.90E+12
Np-239     2.04E+15
Pu-238     6.72E+11
Pu-239     5.76E+10
Pu-240     8.55E+10
Pu-241     1.92E+13
Am-241     2.68E+09
Cm-242     6.13E+11
Cm-244     6.58E+10


******** BEGINNING OF CHANGE CASE   6 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  7 OF 8

       *

  272  RDATNAM2001 'LATE LOW'

********   RECORD NUMBER   272 REPLACES RECORD NUMBER   123   ********
       *

  273  RDOALARM001   2.19E+04

********   RECORD NUMBER   273 REPLACES RECORD NUMBER   124   ********
  274  RDNUMREL001   1

********   RECORD NUMBER   274 REPLACES RECORD NUMBER   125   ********
  275  RDMAXRIS001   1

********   RECORD NUMBER   275 REPLACES RECORD NUMBER   126   ********
  276  RDREFTIM001   0.5

********   RECORD NUMBER   276 REPLACES RECORD NUMBER   127   ********
  277  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   277 REPLACES RECORD NUMBER   128   ********
  278  RDPLHITE001   30.

********   RECORD NUMBER   278 REPLACES RECORD NUMBER   129   ********
  279  RDPLUDUR001   8.64E+04
```

```
********   RECORD NUMBER   279 REPLACES RECORD NUMBER   130   ********
  280  RDPDELAY001   9.13E+04

********   RECORD NUMBER   280 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  281  RDRELFRC001 7.0E-01 1.1E-03 7.9E-04 1.2E-03 8.7E-05 3.5E-06 2.6E-06 2.4E-05
7.4E-05
********   RECORD NUMBER   281 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   6 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   6
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	1.05E+11
Co-60	8.12E+10
Kr-85	2.71E+16
Kr-85m	1.84E+15
Kr-87	1.64E+09
Kr-88	1.76E+14
Rb-86	6.14E+12
Sr-89	2.63E+14
Sr-90	2.67E+13
Sr-91	2.20E+13
Sr-92	2.58E+10
Y-90	9.44E+12
Y-91	1.10E+13
Y-92	7.15E+11
Y-93	9.71E+11
Zr-95	1.38E+13
Zr-97	3.04E+12
Nb-95	1.42E+13
Mo-99	1.44E+13
Tc-99m	1.39E+13
Ru-103	1.65E+13
Ru-105	3.43E+10
Ru-106	5.90E+12
Rh-105	5.98E+12
Sb-127	3.13E+14
Sb-129	3.11E+12
Te-127	3.38E+14
Te-127m	5.37E+13
Te-129	1.17E+14
Te-129m	1.75E+14
Te-131m	2.35E+14
Te-132	3.91E+15
I-131	3.09E+15
I-132	4.03E+15
I-133	2.08E+15
I-134	1.17E+03
I-135	1.34E+14
Xe-133	3.56E+18

```
Xe-135     6.83E+16
Cs-134     5.65E+14
Cs-136     1.51E+14
Cs-137     3.28E+14
Ba-139     3.00E+06
Ba-140     3.79E+14
La-140     1.95E+14
La-141     1.91E+10
La-142     6.81E+05
Ce-141     1.23E+14
Ce-143     5.46E+13
Ce-144     1.00E+14
Pr-143     1.78E+13
Nd-147     5.00E+12
Np-239     9.91E+14
Pu-238     3.43E+11
Pu-239     2.94E+10
Pu-240     4.37E+10
Pu-241     9.79E+12
Am-241     1.37E+09
Cm-242     3.13E+11
Cm-244     3.35E+10


******** BEGINNING OF CHANGE CASE   7 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  8 OF 8

       *

  282  RDATNAM2001 'LATE LOWLOW'

********   RECORD NUMBER   282 REPLACES RECORD NUMBER   123   ********
       *

  283  RDOALARM001   2.56E+04

********   RECORD NUMBER   283 REPLACES RECORD NUMBER   124   ********
  284  RDNUMREL001   1

********   RECORD NUMBER   284 REPLACES RECORD NUMBER   125   ********
  285  RDMAXRIS001   1

********   RECORD NUMBER   285 REPLACES RECORD NUMBER   126   ********
  286  RDREFTIM001   0.5

********   RECORD NUMBER   286 REPLACES RECORD NUMBER   127   ********
  287  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   287 REPLACES RECORD NUMBER   128   ********
  288  RDPLHITE001   30.

********   RECORD NUMBER   288 REPLACES RECORD NUMBER   129   ********
  289  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   289 REPLACES RECORD NUMBER   130   ********
  290  RDPDELAY001   1.13E+05

********   RECORD NUMBER   290 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
```

```
  291  RDRELFRC001 9.1E-01 8.1E-04 7.0E-04 7.6E-04 3.6E-05 2.1E-06 1.1E-06 1.2E-05
3.3E-05
********   RECORD NUMBER   291 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   7 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   7
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	6.27E+10
Co-60	4.87E+10
Kr-85	3.52E+16
Kr-85m	9.42E+14
Kr-87	8.00E+07
Kr-88	5.27E+13
Rb-86	5.39E+12
Sr-89	1.09E+14
Sr-90	1.11E+13
Sr-91	5.88E+12
Sr-92	2.28E+09
Y-90	4.36E+12
Y-91	4.66E+12
Y-92	9.41E+10
Y-93	2.72E+11
Zr-95	5.80E+12
Zr-97	1.00E+12
Nb-95	5.99E+12
Mo-99	8.14E+12
Tc-99m	7.83E+12
Ru-103	9.87E+12
Ru-105	8.02E+09
Ru-106	3.54E+12
Rh-105	3.19E+12
Sb-127	1.89E+14
Sb-129	7.49E+11
Te-127	2.06E+14
Te-127m	3.40E+13
Te-129	7.24E+13
Te-129m	1.10E+14
Te-131m	1.29E+14
Te-132	2.35E+15
I-131	2.23E+15
I-132	2.42E+15
I-133	1.25E+15
I-134	7.35E+00
I-135	5.26E+13
Xe-133	4.48E+18
Xe-135	5.59E+16
Cs-134	5.00E+14
Cs-136	1.32E+14
Cs-137	2.90E+14
Ba-139	6.46E+04
Ba-140	1.67E+14
La-140	9.47E+13

```
La-141     2.79E+09
La-142     1.92E+04
Ce-141     6.13E+13
Ce-143     2.41E+13
Ce-144     5.01E+13
Pr-143     8.24E+12
Nd-147     2.08E+12
Np-239     4.60E+14
Pu-238     1.72E+11
Pu-239     1.47E+10
Pu-240     2.18E+10
Pu-241     4.89E+12
Am-241     5.92E+08
Cm-242     1.32E+11
Cm-244     1.42E+10


USER INPUT IS READ FROM UNIT 25
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE

       *

    1  MIEANAM1001 'EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES'

    2  DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)

       *

       *             ORGNAM         ORGFLG

       *

    3  MIORGDEF001  'A-SKIN'        .TRUE.

    4  MIORGDEF002  'A-RED MARR'    .TRUE.

    5  MIORGDEF003  'A-LUNGS'       .TRUE.

    6  MIORGDEF004  'A-THYROIDH'    .TRUE.

    7  MIORGDEF005  'A-STOMACH'     .TRUE.

    8  MIORGDEF006  'A-LOWER LI'    .FALSE.  (does not contribute to early
fatalities)
    9  MIORGDEF007  'L-EDEWBODY'    .TRUE.

   10  MIORGDEF008  'L-RED MARR'    .TRUE.

   11  MIORGDEF009  'L-BONE SUR'    .TRUE.

   12  MIORGDEF010  'L-BREAST'      .TRUE.

   13  MIORGDEF011  'L-LUNGS'       .TRUE.

   14  MIORGDEF012  'L-THYROID'     .TRUE.
```

```
15  MIORGDEF013  'L-LOWER LI'    .TRUE.
16  MIORGDEF014  'L-BLAD WAL'    .TRUE.
17  MIORGDEF015  'L-LIVER'       .FALSE.
18  MIORGDEF016  'L-THYROIDH'    .TRUE.
    *
    * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
    *
19  MIENDAT2001  .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
    *
    * DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
    *                                2  *  WIND-SHIFT WITH ROTATION
    *                                3  *  WIND-SHIFT WITHOUT ROTATION
    *
20  MIIPLUME001  2
    *
    * NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
    *
21  MINUMFIN001  7    (3, 5 OR 7 ALLOWED)
    *
    * LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
    *
22  MIIPRINT001  0
    *
    * LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
    * BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
    *
    *             RISBIN
    *
23  MIRISCAT001   .FALSE.
    *
    * FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
```

```
      *
   24 MIOVRRID001  .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
*****************************************************************************
      * POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
      *
   25 PDPOPFLG001  FILE
      *
      *PDPOPFLG001  UNIFORM
      *PDIBEGIN001  1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
      *PDPOPDEN001  50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))
*****************************************************************************
      * SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
      *
      * THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
      * ONE FOR EACH TYPE OF ACTIVTY:
      *
      * ACTIVITY TYPE:
      *     1 - EVACUEES WHILE MOVING
      *     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
      *     3 - SHELTERED ACTIVITY
      *
      * CLOUD SHIELDING FACTOR
      *
      *    SITE        GG   PB   SEQ  SUR  ZION
      *    SHELTERING  0.7  0.5  0.65 0.6  0.5
      *
      *            EVACUEES  NORMAL  SHELTER
      *
   26 SECSFACT001      1.     0.75     0.6   *  SURRY SHELTERING VALUE
      *
      * PROTECTION FACTOR FOR INHALATION
```

```
    *
27  SEPROTIN001      1.     0.41      0.33  * VALUES FOR NORMAL ACTIVITY AND
    *                                          SHELTERING SELECTED BY NRC STAFF
    *
    * BREATHING RATE (CUBIC METERS PER SECOND)
    *
28  SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
    *
    * SKIN PROTECTION FACTOR
    *
29  SESKPFAC001  1.0      0.41     0.33    * VALUES FOR NORMAL ACTIVITY AND
    *                                         SHELTERING SELECTED BY NRC STAFF
    *
    * GROUND SHIELDING FACTOR
    *
    *    SITE        GG   PB   SEQ  SUR  ZION
    *    SHELTERING  0.25 0.1  0.2  0.2  0.1
    *
30  SEGSHFAC001      0.5    0.4    0.2   * VALUE FOR NORMAL ACTIVITY SELECTED BY
    *                                        NRC STAFF
    *
    * RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
    *
    *   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
    *   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
    *   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
    *   USED IN CHRONC.
    *
31  SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
    *
    * RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
```

```
     *
32   SERESHAF001   1.82E5    (2.11 DAYS)
*****************************************************************************
     * EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
     *
     * SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
     *
33   EZEANAM2001  'NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE'
     *
     * THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
     * YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
     *
34   EZWTNAME001  'PEOPLE'
     *
     * WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
     *
35   EZWTFRAC001  1.00
     *
     * LAST RING IN THE MOVEMENT ZONE
     *
36   EZLASMOV001     0   (A ZERO TURNS OFF THE EVACUATION MODEL)
     *
     ********************************************************************
     * SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
     *                                         STORED IN /INPSRZ/, /RELOCA/
     *
     * DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
     *
37   SRENDEMP001  604800.   (ONE WEEK)
     *
     * CRITICAL ORGAN FOR RELOCATION DECISIONS
```

```
*
38  SRCRIORG001 'L-EDEWBODY'
*
* HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
*
39  SRTIMHOT001  43200.    (ONE-HALF DAY)
*
* NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
*
40  SRTIMNRM001  86400.    (ONE DAY)
*
* HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
*
41  SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*
* NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
*
42  SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
* EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
*
* NUMBER OF EARLY FATALITY EFFECTS
*
43  EFNUMEFA001   2
*
*            ORGNAM       EFFACA   EFFACB   EFFTHR
*
44  EFATAGRP001 'A-RED MARR'      3.8      5.0    1.5
45  EFATAGRP002 'A-LUNGS'        10.0      7.0    5.0
*******************************************************************************
* EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
```

```
     *
     * NUMBER OF EARLY INJURY EFFECTS
     *
46   EINUMEIN001  7
     *
     *            EINAME           ORGNAM   EISUSC EITHRE EIFACA EIFACB
     *
47   EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
48   EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
49   EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
50   EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
51   EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
52   EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
53   EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3
*******************************************************************************
     * ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
     *
     * NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
     *
54   LCNUMACA001   7
     *
     * THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
     *
55   LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
     *
     * DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
     *
56   LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
     *
     *            ACNAME     ORGNAM  ACSUSC DOSEFA DOSEFB CFRISK   CIRISK  DDREFA
     *
```

```
 57  LCANCERS001 'LEUKEMIA' 'L-RED MARR'  1.0   1.0   0.0   9.70E-3   0.0     2.0
 58  LCANCERS002 'BONE'     'L-BONE SUR'  1.0   1.0   0.0   9.00E-4   0.0     2.0
 59  LCANCERS003 'BREAST'   'L-BREAST'    1.0   1.0   0.0   5.40E-3   1.7E-2  1.0
 60  LCANCERS004 'LUNG'     'L-LUNGS'     1.0   1.0   0.0   1.55E-2   0.0     2.0
 61  LCANCERS005 'THYROID'  'L-THYROIDH'  1.0   1.0   0.0   7.20E-4   7.2E-3  1.0
 62  LCANCERS006 'GI'       'L-LOWER LI'  1.0   1.0   0.0   3.36E-2   0.0     2.0
 63  LCANCERS007 'OTHER'    'L-EDEWBODY'  1.0   1.0   0.0   2.76E-2   0.0     2.0

*******************************************************************************
     * RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
     * TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
 64  TYPE1NUMBER    4
     *
 65  TYPE1OUT001    'ERL FAT/TOTAL'                1  15   NOCCDF (0 TO 50 MILES)
 66  TYPE1OUT009    'CAN FAT/TOTAL'                1  15   NOCCDF
 67  TYPE1OUT019    'CAN FAT/TOTAL'                1  11   NOCCDF (0 TO 10 MILES)
 68  TYPE1OUT020    'ERL FAT/TOTAL'                1  11          (0 TO 10 MILES)

*******************************************************************************
     * RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
     * FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
 69  TYPE2NUMBER  0
     *
     *            FATALITY RISK THRESHOLD
     *
     *TYPE2OUT001  0.
```

```
*******************************************************************************
      * RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
      * NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   70 TYPE3NUMBER  0
      *
      *               ORGAN NAME   DOSE THRESHOLD (Sv)
      *
      *TYPE3OUT001    'A-RED MARR'        1.5
      *TYPE3OUT002    'A-LUNGS'           5.0
      *TYPE3OUT003    'L-EDEWBODY'        0.05

*******************************************************************************
      * RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
      * 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
      *
      * POSSIBLE TYPES OF EFFECTS ARE:
      *
      *   'ERL FAT/TOTAL'
      *   'ERL INJ/INJURY NAME'
      *   'CAN FAT/CANCER NAME'
      *   'CAN FAT/TOTAL'
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   71 TYPE4NUMBER  3
      *
      *            RADIAL INDEX   TYPE OF EFFECT
      *
   72 TYPE4OUT001       1         'ERL FAT/TOTAL'
```

```
   73  TYPE4OUT002       2         'ERL FAT/TOTAL'
   74  TYPE4OUT003       3         'ERL FAT/TOTAL'

*****************************************************************************
       * RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
       *
       * TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   75  TYPE5NUMBER     1
       *
       *             ORGAN      I1DIS5     I2DIS5
       *
   76  TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)

*****************************************************************************
       * RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
       *
       * CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS
FOLLOWS:
       *
       *  PATHWAY NAME:
       *    'CLD'     - CLOUDSHINE
       *    'GRD'     - GROUNDSHINE
       *    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
       *    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE
CLOUD
       *    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
       *    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
       *    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
       *    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
```

```
     *
  77 TYPE6NUMBER     0
     *
     *             ORGNAM        PATHNM      I1DIS6   I2DIS6
     *
     *TYPE6OUT001  'A-RED MARR'    'TOT ACU'      1       19     (0-50 MILES)
     *TYPE6OUT002  'A-LUNGS'       'TOT ACU'      1       19     (0-50 MILES)
     *TYPE6OUT003  'L-EDEWBODY'    'TOT LIF'      1       26     (0-1000 MILES)

*******************************************************************************
     * RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
     *
     * CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  78 TYPE7NUMBER   0
     *
     *                    NAME           I1DIS7       I2DIS7
     *
     *TYPE7OUT001     'ERL FAT/TOTAL'        1           19       (0-50 MILES)
     *TYPE7OUT002     'CAN FAT/TOTAL'        1           26       (0-1000 MILES)

*******************************************************************************
     * RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
     *
     * POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  79 TYPE8NUMBER   2
     *
     *                NAME       I1DIS8  I2DIS8
```

```
       *
   80  TYPE8OUT001 'ERL FAT/TOTAL'   1       3     NOCCDF
   81  TYPE8OUT002 'CAN FAT/TOTAL'   1      11     NOCCDF  (0-10 MILES)

*****************************************************************************
       * RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/
       *
       * peak dose to a given organ
       *
       *            NUMA
   82  TYPEANUMBER   0
       *
       *              ORGNAM    I1DISA  I2DISA
       *TYPEAOUT001 'L-EDEWBODY'  1       15
       .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  341
NUMBER OF BLANK OR COMMENT RECORDS READ         =  258
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   82
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   82
*****************************************************************************
****************


The list of defined organs is as follows (A- is ACUTE and L- is LIFETIME):
   A-SKIN
   A-RED MARR
   A-LUNGS
   A-THYROIDH
   A-STOMACH
   L-EDEWBODY
   L-RED MARR
   L-BONE SUR
   L-BREAST
   L-LUNGS
   L-THYROID
   L-LOWER LI
   L-BLAD WAL
   L-THYROIDH
Am using a DOSFAC/DOSFAC2/IDCF2 dose factor file
```

```
READING FROM A DOSE CONVERSION FILE WITH THE FOLLOWING HEADER:
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1

NO EVACUATION REQUESTED


USING THE FOLLOWING SITE DATA FILE:

MACCS2 Site Data File for Indian Point Energy Center
SITE FILE
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   7 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   1 WATERSHEDS
  21 ECONOMIC REGIONS
 SPATIAL DISTANCES     KILOMETERS
    0.3219    1.6093    3.2187    4.8280    6.4374    8.0467    9.6561   11.2654
   12.8748   14.4841   16.0935   32.1869   48.2804   64.3739   80.4674
 POPULATION
        6.        0.      271.     2059.     2501.      909.      931.     1223.
     1389.     1503.     1696.    22955.    30654.    39620.    51057.0
       16.        7.      170.     1943.     2912.     2051.     1177.     1388.
     1577.     1798.     1913.    28140.    39917.    56226.    67213.0
       17.      193.      883.     2131.     2964.     3843.     3910.     3059.
     2464.     1998.     1915.    29419.    53692.    62559.    41261.0
       17.      364.     1275.     2132.     2977.     3453.     4507.     5282.
     6140.     6960.     7279.    74856.   119073.   152175.   176338.0
       17.      390.     1218.     2138.     2934.     3792.     4424.     5513.
     5587.     7201.     8076.   118335.   156720.   200581.   208394.0
       17.      409.     1256.     2136.     2970.     3592.     3698.     3857.
     5734.     6783.     7409.   121515.   144267.    54180.    34361.0
       17.      410.     1274.     2138.     2872.     3808.     4537.     5279.
     6284.     7194.     8060.   111946.    87735.   236426.   379990.0
       17.      360.     1268.     1645.      882.      495.       15.     1442.
      948.     1911.     3214.    98326.   481703.  1380249.  1218170.0
       17.      400.      701.      246.      124.      620.     1538.     3253.
     4129.     4455.     5138.   135211.  1164596.  3732339.  3164306.0
       17.      377.      562.      500.     1700.     2882.     3544.     4187.
     4873.     5517.     6159.   202605.   395389.   922649.  1034467.0
       17.      217.      187.     1566.     2274.     2916.     3574.     4188.
     4361.     5358.     6138.   183372.   276902.   197362.   246076.0
        9.        0.      620.     1623.     2197.     2924.     3550.     4014.
     4196.     4255.     4335.    64428.   209197.   109102.    85849.0
        3.        0.      855.     1602.     2267.     2815.     2368.     1787.
     1423.     1775.     2030.    32026.    50974.    61380.    57384.0
        2.        0.      938.     1624.     2245.     1341.     1135.     1419.
     1505.     1756.     2071.    32528.    54577.    57977.    29719.0
        2.       45.      974.     1589.     1933.      972.     1140.     1351.
     1541.     1781.     2093.    32572.    54557.    24046.    22317.0
        3.       50.      809.     1051.     1587.      740.     1204.     1407.
     1620.     1787.     2028.    31660.    32569.    27599.    34374.0
 LAND FRACTION
 0.37 0.00 0.23 0.96 0.99 0.94 0.78 0.87 0.85 0.81 0.82 0.83 0.94 0.94 0.93
 0.92 0.02 0.13 0.91 0.97 0.98 1.00 1.00 0.98 0.99 0.94 0.95 0.99 0.99 0.98
 1.00 0.47 0.69 1.00 0.99 1.00 0.98 0.96 0.95 1.00 0.94 0.91 0.94 0.95 0.96
 1.00 0.89 0.99 1.00 0.99 0.90 0.96 0.95 0.96 0.96 0.97 0.91 0.92 0.95 0.98
 1.00 0.95 0.95 1.00 0.98 0.99 0.94 0.99 0.87 0.99 0.99 0.92 0.97 0.97 0.78
 1.00 1.00 0.98 1.00 0.99 0.93 0.79 0.69 0.89 0.93 0.91 0.97 0.95 0.27 0.12
 1.00 1.00 0.99 1.00 0.96 0.99 0.96 0.95 0.98 0.99 0.99 0.93 0.53 0.48 0.98
 1.00 0.88 0.99 0.77 0.29 0.13 0.00 0.26 0.16 0.30 0.43 0.77 0.70 0.79 0.82
 1.00 0.97 0.55 0.12 0.05 0.21 0.43 0.77 0.85 0.81 0.83 0.84 0.87 0.81 0.59
```

```
 1.00 0.92 0.44 0.31 0.75 0.99 0.99 0.99 1.00 1.00 1.00 0.99 0.99 0.93 0.92
 1.00 0.53 0.18 0.96 1.00 1.00 1.00 0.99 0.89 0.97 0.99 0.98 0.93 0.90 0.94
 0.52 0.00 0.64 1.00 0.97 1.00 0.99 0.95 0.91 0.92 0.94 0.94 0.93 0.97 0.94
 0.19 0.00 0.88 0.99 1.00 1.00 1.00 0.98 0.86 0.95 0.97 0.97 0.98 0.97 0.97
 0.13 0.00 0.96 1.00 1.00 0.99 0.94 0.99 0.91 0.94 0.99 0.98 0.99 0.97 0.95
 0.14 0.14 1.00 0.98 0.99 0.98 0.94 0.94 0.93 0.95 1.00 0.98 0.99 0.99 0.96
 0.20 0.16 0.83 0.57 0.65 0.75 0.99 0.98 0.98 0.95 0.97 0.96 0.96 0.99 0.96
 REGION INDEX
2021202020141414141314060606060
2021202020141414141414140606060
2020202020202014141414140603030
2020202020202020202020200101040
2020202020202020202020200101040
2020202020202020202020200101170
2020202020202020202020200112170
2020202020202120202020202012120
2020202021161616161616160215110
2020201616161616161616020205100
2020161616161616161616160807070
2021161616161616161616130809090
2021161616161313131313131309090
2021161616131313131313131313180
2016161616131313131313131318180
2016161620131313131313131919190
 WATERSHED INDEX
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 CROP SEASON AND SHARE
   1 PASTURE               90. 270.  0.0162
   2 STORED FORAGE        150. 240.  0.0480
   3 GRAINS               150. 240.  0.0079
   4 GRN LEAFY VEGETABLES 150. 240.  0.0005
   5 OTHER FOOD CROPS     150. 240.  0.0036
   6 LEGUMES AND SEEDS    150. 240.  0.0002
   7 ROOTS AND TUBERS     150. 240.  0.0018
 WATERSHED DEFINITION  -- INITIAL AND ANNUAL WASHOFF AND INGESTION FACTORS
   1 Sr-89                           5.00E-06
   2 Sr-90                           5.00E-06
   3 Cs-134                          5.00E-06
   4 Cs-137                          5.00E-06
 REGIONAL ECONOMIC DATA
  01 FAIRFIELD      0.032 .008    5831.0   66592.0  287881.0
  02 BERGEN         0.009 .000   14568.0  124496.0  262186.0
  03 LITCHFIELD     0.159 .371     795.0   22373.0  186016.0
  04 NEWHAVEN       0.067 .029    5439.0   36942.0  192427.0
  05 ESSEX          0.002 .000   11903.0  120139.0  197400.0
  06 DUTCHESS       0.219 .207     698.0   16206.0  169417.0
  07 MORRIS         0.057 .006    6005.0   67365.0  277661.0
  08 PASSAIC        0.013 .000    9836.0   81944.0  161864.0
```

```
  09 SUSSEX         0.226 .311     483.0   18496.0  165741.0
  10 UNION          0.003 .000   91646.0  243939.0  209708.0
  11 KINGS          0.000 .000       0.0       0.0  123701.0
  12 NASSAU         0.006 .000   18237.0   88422.0  239932.0
  13 ORANGE         0.207 .288    1516.0   13148.0  148873.0
  14 PUTNAM         0.045 .000     892.0   24525.0  180274.0
  15 QUEENS         0.000 .000       0.0       0.0  226728.0
  16 ROCKLAND       0.011 .047    6365.0   65755.0  203359.0
  17 SUFFOLK        0.058 .000   14567.0   54566.0  192471.0
  18 SULLIVAN       0.103 .233    1466.0    7911.0  139374.0
  19 ULSTER         0.116 .043    1019.0    9908.0  138739.0
  20 WESTCHESTR     0.036 .009    2206.0   39116.0  263389.0
  21 WATER          0.000 .000       0.0       0.0       0.0
POPULATION

>>The Record Identifier TYPEBNUMBER was not found:
>>Type B results not being generated



USER INPUT IS READ FROM UNIT 26
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE

       *

    1  CHCHNAME001 'CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model'

*******************************************************************************

       * EMERGENCY RESPONSE COST DATA BLOCK

       *

       * DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)

       *

    2  CHEVACST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

       *

       * DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)

       *

    3  CHRELCST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

*******************************************************************************

       * LONG TERM PROTECTIVE ACTION DATA BLOCK

       *
```

```
      * Duration of the intermediate phase period--at version 1.11c TMIPND is no
      * longer processed.  The new input variable DUR_INTPHAS is the period's
      * duration, not the time after plume arrival at which the period ends.
      *
    4 DUR_INTPHAS   0.0    (in seconds)   (no intermediate phase)
      *
      * LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
      * PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
      *
    5 CHTMPACT001   1.58E8             (5 YEARS)
      *
      * DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
      *
    6 CHDSCRTI001   1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
      *
      * DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
      *
    7 CHDSCRLT001    0.04
      *
      * CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
      *
    8 CHCRTOCR001 'L-EDEWBODY'
      *
      * Long Term Exposure Period    Previously permanently set to:
      *    one million years = 3.15 E13 seconds
      *    MACCS2 allowable range is 3.15E7 to 1.E10
      *
    9 CHEXPTIM001    9.45E8
*******************************************************************************
      * DECONTAMINATION PLAN DATA BLOCK
      *
```

```
     * NUMBER OF LEVELS OF DECONTAMINATION
     *
  10 CHLVLDEC001  2
     *
     * DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
     *  (SECONDS)
     *
  11 CHTIMDEC001   5.184E6  1.0368E7    (60, 120 DAYS)
     *
     * DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF
DECONTAMINATION
     *
  12 CHDSRFCT001   3.      15.
     *
     * COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  13 CHCDFRM0001   972.   2160.
     *
     * COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  14 CHCDNFRM001   5184.   13824.
     *
     * FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  15 CHFRFDL0001  .3      .35
     *
     * FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  16 CHFRNFDL001  .7      .5
```

```
      *
      * FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   17 CHTFWKF0001  .10     .33
      *
      * FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   18 CHTFWKNF001  .33     .33
      *
      * AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
      *
   19 CHDLBCST001   60480.
*******************************************************************************
      * INTERDICTION COST DATA BLOCK
      *
      * DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
      *
   20 CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER
YEAR)
      * THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
      *
   21 CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * POPULATION RELOCATION COST (DOLLARS/PERSON):
      *  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
      *  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
      *
   22 CHPOPCST001   8640.
```

```
*****************************************************************************
      * GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
      *
  23  CHNGWTRM001   2
      *
      * GROUNDSHINE WEATHERING COEFFICIENTS
      *
  24  CHGWCOEF001   0.5    0.5            (JON HELTON)
      *
      * HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
      *
  25  CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*****************************************************************************
      * RESUSPENSION WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
      *
  26  CHNRWTRM001    3
      *
      * RESUSPENSION CONCENTRATION COEFFICIENTS   (/ METER)
      *  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
      *
  27  CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
      *
      * HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
      *
  28  CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*****************************************************************************
```

```
     * SITE REGION DESCRIPTION DATA BLOCK
     *
     * FRACTION OF AREA THAT IS LAND IN THE REGION
     *
  29 CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
     *
  30 CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
     *  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN
FARMS)
     *
  31 CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
     *  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME
CONSUMPTION)
     *
  32 CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * VALUE OF FARM WEALTH (DOLLARS/HECTARE)
     *  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
     *
  33 CHVALWF0001    50071.
     *
     * FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
     *
  34 CHFRFIM0001   0.25
     *
     * NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
     *  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
```

```
*  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
*
35  CHVALWNF001    208838.
*
* FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
*
36  CHFRNFIM001   0.8
*******************************************************************************
37  CHFDPATH001 'NEW'
*
* name of the COMIDA2 binary output file
*
38  BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
*
* Dose limits triggering first year crop disposal of the separate
* milk and non-milk components of the diet, corresponding in purpose,
* more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
*
* For NUREG-1150 calculations, the maximum allowable ground concentrations
for
* production of milk and non-milk crops contaminated by an accident occurring
* in the growing season were derived based on an assumed maximum allowable
* dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
* reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
* the prior results, it is being assumed, for simplicity, that milk and
* non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
* effective dose limit used in NUREG-1150 is equally split between milk and
* non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
* thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
* portions of the diet.
*
*             effective     thyroid  (doses in sieverts)
39  DOSEMILK001    0.025          0.075
```

```
40  DOSEOTHR001    0.025          0.075
    *
    * Annual dose limits for the subsequent year's (i.e., after the first year)
    * interdiction of BOTH the milk and non-milk (combined) components of the
diet
    *
    * Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
    * an ingestion dose integrated from zero to infinity.  It is not possible to
    * translate those parameter values into corresponding annual dose limits, as
is
    * required by the COMIDA2-based food model.  The "total" dose limits used in
    * NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are
used
    * here as annual dose limits for interdiction of food production in years the
    * years subsequent to the accident.
    *
    *             effective     thyroid  (doses in sieverts)
41  DOSELONG001    0.005          0.015
    *
    * NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
    *
42  CHNUMWPI001    4
    *
    * TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
    *
    * IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
    *  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
    *
    *                        INITIAL     ANNUAL    INGESTION FACTOR
    *             WATER      WASHOFF     WASHOFF    ((Bq INGESTED)/
    *            NUCLIDE     FRACTION     RATE       (Bq IN WATER))
    *
    *             NAMWPI      WSHFRI      WSHRTA         WINGF
43  CHWTRISO001   Sr-89        0.01       0.004          5.0E-6
```

```
44  CHWTRISO002   Sr-90        0.01       0.004          5.0E-6
45  CHWTRISO003   Cs-134       0.005      0.001          5.0E-6
46  CHWTRISO004   Cs-137       0.005      0.001          5.0E-6

*******************************************************************************
      * SPECIAL OPTIONS DATA BLOCK
      *
      * DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING
ON!!
      *          KSWDSC
      *
47  CHKSWTCH001   0

*******************************************************************************
      * DEFINE THE TYPE 9 RESULTS
      *
      * LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
48  TYPE9NUMBER   1      (UP TO 10 ALLOWED)
      *
      *              ORGNAM        INNER      OUTER
      *
49  TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)

*******************************************************************************
      * ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
50  TYP10NUMBER   1      (UP TO 10 ALLOWED)
```

```
       *
       *               INNER      OUTER
       *
   51  TYP10OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
       *
       * SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
       * A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE
OUTPUT.
       *
   52  TYP11FLAG11  .FALSE.
*****************************************************************************
       * IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF
IMPACTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
       *
   53  TYP12NUMBER   0      (UP TO 10 ALLOWED)
       *
       *               INNER      OUTER
       *
       *TYP12OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * Maximal annual food ingestion dose to an individual, requested by IXOT13
       *
       * This result is calculated after accounting for temporary or
       * permanent interdiction.  It is only available for the "new" food model.
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       *
```

```
  54  TYP13NUMBER   0   (UP TO 10 ALLOWED)
      *
      * IRAD13 is the radial spatial interval at which results are requested
      *
      * ORGN13 is the name of the organ for which results are requested
      *  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
      *
      *          IRAD13   ORGN13
      *
      *TYP13OUT001   2    EFFECTIVE
      *TYP13OUT002   4    EFFECTIVE
      *TYP13OUT003   6    EFFECTIVE
      *TYP13OUT004   8    EFFECTIVE
      *TYP13OUT005  10    EFFECTIVE
      *TYP13OUT006  12    EFFECTIVE
      *TYP13OUT007  15    EFFECTIVE
      *TYP13OUT008   2    THYROID
      *TYP13OUT009   4    THYROID
      *TYP13OUT010   6    THYROID
      *TYP13OUT011   8    THYROID
      *TYP13OUT012  10    THYROID
      *TYP13OUT013  12    THYROID
      *TYP13OUT014  15    THYROID
      .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********

USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  318
NUMBER OF BLANK OR COMMENT RECORDS READ         =  263
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   54
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   54
*******************************************************************************
****************
```

```
COMIDA2 binary file header =
COMIDA2 01/14/2004 13:06:02   Version 1.11.1, 01/12/2004

COMIDA2 descriptive title  =
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47

Seven new organs added with MACCS Version 1.5.11.1


A SITE DATA FILE IS BEING USED FOR BOTH "EARLY" AND "CHRONC"

 7 CANCER EFFECTS ARE DEFINED IN THE MODEL.
    INDEX  CANCER EFFECT                    ORGAN       ALPHA       BETA     CFRISK
   CIRISK
       1                       LEUKEMIA     L-RED MARR   1.000E+00  0.000E+00
9.700E-03  0.000E+00
       2                       BONE         L-BONE SUR   1.000E+00  0.000E+00
9.000E-04  0.000E+00
       3                       BREAST       L-BREAST     1.000E+00  0.000E+00
5.400E-03  1.700E-02
       4                       LUNG         L-LUNGS      1.000E+00  0.000E+00
1.550E-02  0.000E+00
       5                       THYROID      L-THYROIDH   1.000E+00  0.000E+00
7.200E-04  7.200E-03
       6                       GI           L-LOWER LI   1.000E+00  0.000E+00
3.360E-02  0.000E+00
       7                       OTHER        L-EDEWBODY   1.000E+00  0.000E+00
2.760E-02  0.000E+00

  TIME OF HOTSPOT RELOCATION IS 4.3200E+04.
  TIME OF NORMAL RETURN IS  8.640E+04 AND THE EMERGENCY PHASE ENDS AT  6.048E+05.


GROUNDSHINE SHIELDING FACTOR   = 0.400

RESUSPENSION PROTECTION FACTOR = 0.410

BREATHING RATE (CUBIC M/S) =   2.660E-04

  DISPERSION MODEL FLAG IS  2

  WINDROSE PROBABILITIES BY WIND DIRECTION AND MET BIN NUMBER
 BIN     1      2      3      4      5      6      7      8      9     10     11
12     13     14     15     16
    1 0.3011 0.0161 0.0215 0.0645 0.0484 0.0645 0.1075 0.0860 0.0860 0.0108 0.0000
0.0000 0.0000 0.0000 0.0215 0.1720
    2 0.0647 0.0118 0.0353 0.0294 0.0176 0.1765 0.1941 0.0412 0.2412 0.1000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0882
    3 0.1176 0.1471 0.0441 0.0294 0.0221 0.0074 0.0221 0.0147 0.0441 0.0368 0.0294
0.0441 0.1029 0.0882 0.1029 0.1471
    4 0.2028 0.0985 0.0572 0.0507 0.0608 0.0492 0.0623 0.0615 0.0862 0.0883 0.0507
0.0224 0.0224 0.0087 0.0174 0.0608
    5 0.1636 0.0547 0.0250 0.0361 0.0623 0.0850 0.1054 0.0856 0.1752 0.1368 0.0204
0.0064 0.0006 0.0006 0.0000 0.0425
    6 0.1339 0.0360 0.0084 0.0151 0.0343 0.0895 0.1548 0.0711 0.2075 0.2243 0.0017
0.0000 0.0000 0.0000 0.0000 0.0234
    7 0.1351 0.0405 0.0405 0.0000 0.0676 0.0946 0.1622 0.0405 0.2973 0.1216 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    9 0.1129 0.0753 0.0579 0.0420 0.0478 0.0232 0.0434 0.0507 0.0999 0.0897 0.0651
0.0449 0.0449 0.0608 0.0521 0.0897
   10 0.1797 0.1166 0.0507 0.0478 0.0287 0.0229 0.0096 0.0067 0.0229 0.1941 0.1252
```

0.0488 0.0220 0.0191 0.0239 0.0813
11 0.3345 0.0669 0.0106 0.0000 0.0035 0.0070 0.0070 0.0035 0.0246 0.3028 0.1338
0.0106 0.0035 0.0000 0.0000 0.0915
12 0.4412 0.0000 0.0000 0.0000 0.0000 0.0294 0.0000 0.0000 0.0294 0.3529 0.0588
0.0000 0.0000 0.0000 0.0000 0.0882
13 0.0345 0.0460 0.0345 0.0172 0.0115 0.0517 0.0460 0.1034 0.2701 0.1552 0.0517
0.0805 0.0172 0.0287 0.0230 0.0287
14 0.0100 0.0150 0.0100 0.0150 0.0050 0.0000 0.0050 0.0100 0.0850 0.4800 0.2350
0.0450 0.0600 0.0100 0.0150 0.0000
15 0.0000 0.0000 0.0000 0.0000 0.0147 0.0000 0.0000 0.0000 0.0000 0.5588 0.4265
0.0000 0.0000 0.0000 0.0000 0.0000
16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.6000 0.4000
0.0000 0.0000 0.0000 0.0000 0.0000
17 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
18 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
19 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
20 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
21 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
22 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
23 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
24 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
25 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
26 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
27 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
28 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
29 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
30 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
31 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
32 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
33 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
34 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
35 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
36 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
37 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
38 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
39 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
40 0.1393 0.0617 0.0337 0.0172 0.0108 0.0101 0.0158 0.0280 0.1077 0.2548 0.0739
0.0380 0.0337 0.0302 0.0323 0.1127
41 0.1589 0.0675 0.0345 0.0320 0.0382 0.0499 0.0677 0.0510 0.1219 0.1761 0.0592
0.0239 0.0186 0.0155 0.0177 0.0674

```
Processing a Site Data File with Header: MACCS2 Site Data File for Indian Point
Energy Center
 SITE FILE

 THIS PROGRAM CURRENTLY ALLOWS THE GENERATION OF UP TO  394 RESULTS

YOU HAVE REQUESTED  10 RESULTS FROM "EARLY" COMPOSED OF:

   4 RESULTS OF TYPE 1
   0 RESULTS OF TYPE 2
   0 RESULTS OF TYPE 3
   3 RESULTS OF TYPE 4
   1 RESULTS OF TYPE 5
   0 RESULTS OF TYPE 6
   0 RESULTS OF TYPE 7
   2 RESULTS OF TYPE 8
   0 RESULTS OF TYPE A
   0 RESULTS OF TYPE B

YOU HAVE REQUESTED   30 RESULTS FROM "CHRONC" COMPOSED OF:

  17 RESULTS OF TYPE 9
  13 RESULTS OF TYPE 10
   0 RESULTS OF TYPE 11
   0 RESULTS OF TYPE 12
   0 RESULTS OF TYPE 13


     TRIAL        DAY       HOUR        BIN     PRBMET
         1        156         19         21   6.02E-03
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 156, selecting COMIDA2 results # 4 of 9
         2        156         21         18   1.46E-03
For Julian Day 156, selecting COMIDA2 results # 4 of 9
         3        163         13         40   7.99E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         4        163         16         37   3.42E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         5        163         17         35   8.85E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         6        165          9         23   1.66E-03
For Julian Day 165, selecting COMIDA2 results # 4 of 9
         7        166         12         28   1.23E-03
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         8        166         18         27   5.71E-04
```

```
For Julian Day 166, selecting COMIDA2 results # 4 of 9
          9        166         19         26   2.85E-04
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         10        166         21         25   2.00E-04
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         11        166         22         24   1.43E-04
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         12        167          7          3   3.88E-03
For Julian Day 167, selecting COMIDA2 results # 5 of 9
         13        168          5          9   1.97E-02
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         14        169         19          4   3.94E-02
For Julian Day 169, selecting COMIDA2 results # 5 of 9
         15        171         12          1   5.31E-03
For Julian Day 171, selecting COMIDA2 results # 5 of 9
         16        176          3         15   1.94E-03
For Julian Day 176, selecting COMIDA2 results # 5 of 9
         17        176          6         10   2.99E-02
For Julian Day 176, selecting COMIDA2 results # 5 of 9
         18        181         23         22   1.02E-02
For Julian Day 181, selecting COMIDA2 results # 5 of 9
         19        186         13          2   4.85E-03
For Julian Day 186, selecting COMIDA2 results # 5 of 9
         20        190         14         25   2.00E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         21        190         15         24   1.43E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         22        197         18          6   3.41E-02
For Julian Day 197, selecting COMIDA2 results # 6 of 9
         23        200         17         29   6.56E-04
For Julian Day 200, selecting COMIDA2 results # 6 of 9
         24        204         15         20   2.14E-03
For Julian Day 204, selecting COMIDA2 results # 6 of 9
         25        207          7         34   5.42E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         26        207         10         33   2.28E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         27        207         12         33   2.28E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         28        207         13         32   1.14E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         29        207         14         31   1.14E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         30        207         15         30   1.14E-04
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         31        212         12          5   4.90E-02
For Julian Day 212, selecting COMIDA2 results # 6 of 9
         32        220         24         16   2.85E-04
For Julian Day 220, selecting COMIDA2 results # 6 of 9
         33        221          2         16   2.85E-04
For Julian Day 221, selecting COMIDA2 results # 6 of 9
         34        221          6         11   8.11E-03
For Julian Day 221, selecting COMIDA2 results # 6 of 9
         35        223         11          4   3.94E-02
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         36        226          2         13   4.97E-03
For Julian Day 226, selecting COMIDA2 results # 7 of 9
         37        228          1         40   7.99E-04
For Julian Day 228, selecting COMIDA2 results # 7 of 9
         38        228          6         39   6.56E-04
For Julian Day 228, selecting COMIDA2 results # 7 of 9
         39        228          9         39   6.56E-04
For Julian Day 228, selecting COMIDA2 results # 7 of 9
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         40        228         11         36   1.14E-04
For Julian Day 228, selecting COMIDA2 results # 7 of 9
         41        231         23         28   1.23E-03
For Julian Day 231, selecting COMIDA2 results # 7 of 9
         42        232          4         26   2.85E-04
For Julian Day 232, selecting COMIDA2 results # 7 of 9
         43        234          4          9   1.97E-02
For Julian Day 234, selecting COMIDA2 results # 7 of 9
         44        238          8         12   9.70E-04
For Julian Day 238, selecting COMIDA2 results # 7 of 9
         45        238         22         14   5.71E-03
For Julian Day 238, selecting COMIDA2 results # 7 of 9
         46        238         24         15   1.94E-03
For Julian Day 238, selecting COMIDA2 results # 7 of 9
         47        240         23         34   5.42E-04
For Julian Day 240, selecting COMIDA2 results # 7 of 9
         48        241          2         34   5.42E-04
For Julian Day 241, selecting COMIDA2 results # 7 of 9
         49        241          4         32   1.14E-04
For Julian Day 241, selecting COMIDA2 results # 7 of 9
         50        241          6         35   8.85E-04
For Julian Day 241, selecting COMIDA2 results # 7 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
         51        241          9         29   6.56E-04
For Julian Day 241, selecting COMIDA2 results # 7 of 9
         52        242         24         16   2.85E-04
For Julian Day 242, selecting COMIDA2 results # 7 of 9
         53        243         18          3   3.88E-03
For Julian Day 243, selecting COMIDA2 results # 7 of 9
         54        246         14         40   7.99E-04
For Julian Day 246, selecting COMIDA2 results # 7 of 9
         55        246         22         38   2.28E-04
For Julian Day 246, selecting COMIDA2 results # 7 of 9
         56        247          1         37   3.42E-04
For Julian Day 247, selecting COMIDA2 results # 7 of 9
         57        250         24         14   5.71E-03
For Julian Day 250, selecting COMIDA2 results # 7 of 9
         58        255         15          1   5.31E-03
For Julian Day 255, selecting COMIDA2 results # 7 of 9
         59        258         12         19   2.74E-03
For Julian Day 258, selecting COMIDA2 results # 8 of 9
         60        260         23         15   1.94E-03
For Julian Day 260, selecting COMIDA2 results # 8 of 9
         61        262          7         10   2.99E-02
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         62        265         11          1   5.31E-03
For Julian Day 265, selecting COMIDA2 results # 8 of 9
         63        269         20         17   8.50E-03
For Julian Day 269, selecting COMIDA2 results # 8 of 9
         64        277          3         17   8.50E-03
For Julian Day 277, selecting COMIDA2 results # 8 of 9
         65        284         14         19   2.74E-03
For Julian Day 284, selecting COMIDA2 results # 8 of 9
         66        289         18          7   2.11E-03
For Julian Day 289, selecting COMIDA2 results # 9 of 9
         67        295          5         11   8.11E-03
For Julian Day 295, selecting COMIDA2 results # 9 of 9
         68        300         11         21   6.02E-03
For Julian Day 300, selecting COMIDA2 results # 9 of 9
         69        304          9          6   3.41E-02
For Julian Day 304, selecting COMIDA2 results # 9 of 9
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         70        320          3         27   5.71E-04
For Julian Day 320, selecting COMIDA2 results # 9 of 9
         71        321          6         23   1.66E-03
For Julian Day 321, selecting COMIDA2 results # 9 of 9
         72        321         15         20   2.14E-03
For Julian Day 321, selecting COMIDA2 results # 9 of 9
         73        323         16          5   4.90E-02
For Julian Day 323, selecting COMIDA2 results # 9 of 9
         74        326          9         22   1.02E-02
For Julian Day 326, selecting COMIDA2 results # 9 of 9
         75        326         18         35   8.85E-04
For Julian Day 326, selecting COMIDA2 results # 9 of 9
         76        329          2         13   4.97E-03
For Julian Day 329, selecting COMIDA2 results # 9 of 9
         77        341         19         11   8.11E-03
For Julian Day 341, selecting COMIDA2 results # 1 of 9
         78        345          3         12   9.70E-04
For Julian Day 345, selecting COMIDA2 results # 1 of 9
         79        348         13         18   1.46E-03
For Julian Day 348, selecting COMIDA2 results # 1 of 9
         80        353         19         22   1.02E-02
For Julian Day 353, selecting COMIDA2 results # 1 of 9
         81        354          4         19   2.74E-03
For Julian Day 354, selecting COMIDA2 results # 1 of 9
         82        354         12         32   1.14E-04
For Julian Day 354, selecting COMIDA2 results # 1 of 9
         83        361          8         10   2.99E-02
For Julian Day 361, selecting COMIDA2 results # 1 of 9
         84        363         13          6   3.41E-02
For Julian Day 363, selecting COMIDA2 results # 1 of 9
         85          6         22         29   6.56E-04
For Julian Day   6, selecting COMIDA2 results # 1 of 9
         86          7         16          2   4.85E-03
For Julian Day   7, selecting COMIDA2 results # 1 of 9
         87         14         20          3   3.88E-03
For Julian Day  14, selecting COMIDA2 results # 1 of 9
         88         21         23          4   3.94E-02
For Julian Day  21, selecting COMIDA2 results # 1 of 9
         89         24          1         21   6.02E-03
For Julian Day  24, selecting COMIDA2 results # 1 of 9
         90         24         10         18   1.46E-03
For Julian Day  24, selecting COMIDA2 results # 1 of 9
         91         29          6         13   4.97E-03
For Julian Day  29, selecting COMIDA2 results # 1 of 9
         92         30         15         16   2.85E-04
For Julian Day  30, selecting COMIDA2 results # 1 of 9
         93         32         15         17   8.50E-03
For Julian Day  32, selecting COMIDA2 results # 2 of 9
         94         32         20          7   2.11E-03
For Julian Day  32, selecting COMIDA2 results # 2 of 9
         95         35          6         14   5.71E-03
For Julian Day  35, selecting COMIDA2 results # 2 of 9
         96         37         13          5   4.90E-02
For Julian Day  37, selecting COMIDA2 results # 2 of 9
         97         41          4         28   1.23E-03
For Julian Day  41, selecting COMIDA2 results # 2 of 9
         98         41          8         28   1.23E-03
For Julian Day  41, selecting COMIDA2 results # 2 of 9
         99         41         15         27   5.71E-04
For Julian Day  41, selecting COMIDA2 results # 2 of 9
        100         41         16         26   2.85E-04
For Julian Day  41, selecting COMIDA2 results # 2 of 9
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     TRIAL        DAY       HOUR        BIN     PRBMET
       101         41         18         25   2.00E-04
For Julian Day  41, selecting COMIDA2 results # 2 of 9
       102         41         19         24   1.43E-04
For Julian Day  41, selecting COMIDA2 results # 2 of 9
       103         41         20         23   1.66E-03
For Julian Day  41, selecting COMIDA2 results # 2 of 9
       104         45          3          4   3.94E-02
For Julian Day  45, selecting COMIDA2 results # 2 of 9
       105         46         18         12   9.70E-04
For Julian Day  46, selecting COMIDA2 results # 2 of 9
       106         47          9          9   1.97E-02
For Julian Day  47, selecting COMIDA2 results # 2 of 9
       107         49          2          7   2.11E-03
For Julian Day  49, selecting COMIDA2 results # 2 of 9
       108         51          6          9   1.97E-02
For Julian Day  51, selecting COMIDA2 results # 2 of 9
       109         66         23         12   9.70E-04
For Julian Day  66, selecting COMIDA2 results # 2 of 9
       110         68         23         20   2.14E-03
For Julian Day  68, selecting COMIDA2 results # 2 of 9
       111         75         15          6   3.41E-02
For Julian Day  75, selecting COMIDA2 results # 2 of 9
       112         78          4          3   3.88E-03
For Julian Day  78, selecting COMIDA2 results # 2 of 9
       113         85         17         27   5.71E-04
For Julian Day  85, selecting COMIDA2 results # 2 of 9
       114         86         12          2   4.85E-03
For Julian Day  86, selecting COMIDA2 results # 2 of 9
       115         90          3         11   8.11E-03
For Julian Day  90, selecting COMIDA2 results # 2 of 9
       116         90         16         22   1.02E-02
For Julian Day  90, selecting COMIDA2 results # 2 of 9
       117         90         21         21   6.02E-03
For Julian Day  90, selecting COMIDA2 results # 2 of 9
       118        106          5         13   4.97E-03
For Julian Day 106, selecting COMIDA2 results # 3 of 9
       119        109          9         34   5.42E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       120        109         11         33   2.28E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       121        109         12         33   2.28E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       122        109         13         31   1.14E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       123        109         16         25   2.00E-04
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       124        109         18         23   1.66E-03
For Julian Day 109, selecting COMIDA2 results # 3 of 9
       125        110          5         10   2.99E-02
For Julian Day 110, selecting COMIDA2 results # 3 of 9
       126        112          7         18   1.46E-03
For Julian Day 112, selecting COMIDA2 results # 3 of 9
       127        114          2         15   1.94E-03
For Julian Day 114, selecting COMIDA2 results # 3 of 9
       128        114          6         14   5.71E-03
For Julian Day 114, selecting COMIDA2 results # 3 of 9
       129        116         12          2   4.85E-03
For Julian Day 116, selecting COMIDA2 results # 3 of 9
       130        118         16         39   6.56E-04
For Julian Day 118, selecting COMIDA2 results # 3 of 9
       131        118         17         38   2.28E-04
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For Julian Day 118, selecting COMIDA2 results # 3 of 9
        132        118         23         26   2.85E-04
For Julian Day 118, selecting COMIDA2 results # 3 of 9
        133        118         24         24   1.43E-04
For Julian Day 118, selecting COMIDA2 results # 3 of 9
        134        120         19         29   6.56E-04
For Julian Day 120, selecting COMIDA2 results # 3 of 9
        135        122         12         40   7.99E-04
For Julian Day 122, selecting COMIDA2 results # 3 of 9
        136        122         16         39   6.56E-04
For Julian Day 122, selecting COMIDA2 results # 3 of 9
        137        122         17         38   2.28E-04
For Julian Day 122, selecting COMIDA2 results # 3 of 9
        138        131         11          1   5.31E-03
For Julian Day 131, selecting COMIDA2 results # 3 of 9
        139        132         14         17   8.50E-03
For Julian Day 132, selecting COMIDA2 results # 3 of 9
        140        132         15         37   3.42E-04
For Julian Day 132, selecting COMIDA2 results # 3 of 9
        141        132         16         35   8.85E-04
For Julian Day 132, selecting COMIDA2 results # 3 of 9
        142        133          1         19   2.74E-03
For Julian Day 133, selecting COMIDA2 results # 3 of 9
        143        135          7          5   4.90E-02
For Julian Day 135, selecting COMIDA2 results # 3 of 9
        144        137         23         20   2.14E-03
For Julian Day 137, selecting COMIDA2 results # 4 of 9
        145        138         11          7   2.11E-03
For Julian Day 138, selecting COMIDA2 results # 4 of 9
        146        148          1         38   2.28E-04
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        147        148          4         37   3.42E-04
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        148        148          5         36   1.14E-04
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        149        151         18         32   1.14E-04
For Julian Day 151, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 165, selecting COMIDA2 results # 4 of 9
For Julian Day 166, selecting COMIDA2 results # 4 of 9
For Julian Day 166, selecting COMIDA2 results # 4 of 9
For Julian Day 166, selecting COMIDA2 results # 4 of 9
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For Julian Day 166, selecting COMIDA2 results # 4 of 9
For Julian Day 166, selecting COMIDA2 results # 4 of 9
For Julian Day 167, selecting COMIDA2 results # 5 of 9
For Julian Day 168, selecting COMIDA2 results # 5 of 9
For Julian Day 169, selecting COMIDA2 results # 5 of 9
For Julian Day 171, selecting COMIDA2 results # 5 of 9
For Julian Day 176, selecting COMIDA2 results # 5 of 9
For Julian Day 176, selecting COMIDA2 results # 5 of 9
For Julian Day 181, selecting COMIDA2 results # 5 of 9
For Julian Day 186, selecting COMIDA2 results # 5 of 9
For Julian Day 190, selecting COMIDA2 results # 5 of 9
For Julian Day 190, selecting COMIDA2 results # 5 of 9
For Julian Day 197, selecting COMIDA2 results # 6 of 9
For Julian Day 200, selecting COMIDA2 results # 6 of 9
For Julian Day 204, selecting COMIDA2 results # 6 of 9
For Julian Day 207, selecting COMIDA2 results # 6 of 9
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For Julian Day 212, selecting COMIDA2 results # 6 of 9
For Julian Day 220, selecting COMIDA2 results # 6 of 9
For Julian Day 221, selecting COMIDA2 results # 6 of 9
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For Julian Day 223, selecting COMIDA2 results # 7 of 9
For Julian Day 226, selecting COMIDA2 results # 7 of 9
For Julian Day 228, selecting COMIDA2 results # 7 of 9
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For Julian Day 231, selecting COMIDA2 results # 7 of 9
For Julian Day 232, selecting COMIDA2 results # 7 of 9
For Julian Day 234, selecting COMIDA2 results # 7 of 9
For Julian Day 238, selecting COMIDA2 results # 7 of 9
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For Julian Day 255, selecting COMIDA2 results # 7 of 9
For Julian Day 258, selecting COMIDA2 results # 8 of 9
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For Julian Day 262, selecting COMIDA2 results # 8 of 9
For Julian Day 265, selecting COMIDA2 results # 8 of 9
For Julian Day 269, selecting COMIDA2 results # 8 of 9
For Julian Day 277, selecting COMIDA2 results # 8 of 9
For Julian Day 284, selecting COMIDA2 results # 8 of 9
For Julian Day 289, selecting COMIDA2 results # 9 of 9
For Julian Day 295, selecting COMIDA2 results # 9 of 9
For Julian Day 300, selecting COMIDA2 results # 9 of 9
For Julian Day 304, selecting COMIDA2 results # 9 of 9
For Julian Day 320, selecting COMIDA2 results # 9 of 9
For Julian Day 321, selecting COMIDA2 results # 9 of 9
For Julian Day 321, selecting COMIDA2 results # 9 of 9
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For Julian Day 323, selecting COMIDA2 results # 9 of 9
For Julian Day 326, selecting COMIDA2 results # 9 of 9
For Julian Day 326, selecting COMIDA2 results # 9 of 9
For Julian Day 329, selecting COMIDA2 results # 9 of 9
For Julian Day 341, selecting COMIDA2 results # 1 of 9
For Julian Day 345, selecting COMIDA2 results # 1 of 9
For Julian Day 348, selecting COMIDA2 results # 1 of 9
For Julian Day 353, selecting COMIDA2 results # 1 of 9
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For Julian Day 354, selecting COMIDA2 results # 1 of 9
For Julian Day 361, selecting COMIDA2 results # 1 of 9
For Julian Day 363, selecting COMIDA2 results # 1 of 9
For Julian Day   6, selecting COMIDA2 results # 1 of 9
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For Julian Day  24, selecting COMIDA2 results # 1 of 9
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For Julian Day  51, selecting COMIDA2 results # 2 of 9
For Julian Day  66, selecting COMIDA2 results # 2 of 9
For Julian Day  68, selecting COMIDA2 results # 2 of 9
For Julian Day  75, selecting COMIDA2 results # 2 of 9
For Julian Day  78, selecting COMIDA2 results # 2 of 9
For Julian Day  85, selecting COMIDA2 results # 2 of 9
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For Julian Day 106, selecting COMIDA2 results # 3 of 9
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For Julian Day 116, selecting COMIDA2 results # 3 of 9
For Julian Day 118, selecting COMIDA2 results # 3 of 9
For Julian Day 118, selecting COMIDA2 results # 3 of 9
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For Julian Day 118, selecting COMIDA2 results # 3 of 9
For Julian Day 120, selecting COMIDA2 results # 3 of 9
For Julian Day 122, selecting COMIDA2 results # 3 of 9
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For Julian Day 122, selecting COMIDA2 results # 3 of 9
For Julian Day 122, selecting COMIDA2 results # 3 of 9
For Julian Day 131, selecting COMIDA2 results # 3 of 9
For Julian Day 132, selecting COMIDA2 results # 3 of 9
For Julian Day 132, selecting COMIDA2 results # 3 of 9
For Julian Day 132, selecting COMIDA2 results # 3 of 9
For Julian Day 133, selecting COMIDA2 results # 3 of 9
For Julian Day 135, selecting COMIDA2 results # 3 of 9
For Julian Day 137, selecting COMIDA2 results # 4 of 9
For Julian Day 138, selecting COMIDA2 results # 4 of 9
For Julian Day 148, selecting COMIDA2 results # 4 of 9
For Julian Day 148, selecting COMIDA2 results # 4 of 9
For Julian Day 148, selecting COMIDA2 results # 4 of 9
For Julian Day 151, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.81 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 156, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 165, selecting COMIDA2 results # 4 of 9
For Julian Day 166, selecting COMIDA2 results # 4 of 9
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For Julian Day 166, selecting COMIDA2 results # 4 of 9
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For Julian Day 204, selecting COMIDA2 results # 6 of 9
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For Julian Day 207, selecting COMIDA2 results # 6 of 9
For Julian Day 212, selecting COMIDA2 results # 6 of 9
For Julian Day 220, selecting COMIDA2 results # 6 of 9
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For Julian Day 221, selecting COMIDA2 results # 6 of 9
For Julian Day 221, selecting COMIDA2 results # 6 of 9
For Julian Day 223, selecting COMIDA2 results # 7 of 9
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For Julian Day 242, selecting COMIDA2 results # 7 of 9
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For Julian Day 246, selecting COMIDA2 results # 7 of 9
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For Julian Day 250, selecting COMIDA2 results # 7 of 9
For Julian Day 255, selecting COMIDA2 results # 7 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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 WARNING!! WARNING!! WARNING!! WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 23.58 HOURS

 WARNING!! WARNING!! WARNING!! WARNING!!

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 156, selecting COMIDA2 results # 4 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 156, selecting COMIDA2 results # 4 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

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THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

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  DATE AND TIME OF RUN = MACCS2 13-NOV-09 15:24:01 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 1 OF 8:
    NCF

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:

FRACTION OF THE PEOPLE

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC" DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN LATER SECTIONS.

13-NOV-09 15:24:01 PAGE 1 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
HEALTH EFFECTS CASES
CAN FAT/TOTAL 0-80.5 km 1.0000 3.57E+00 3.11E+00 6.42E+00
7.65E+00 1.05E+01 1.17E+01 1.65E+01 4.57E-04 138
CAN FAT/TOTAL 0-16.1 km 1.0000 1.63E+00 1.35E+00 3.01E+00
3.10E+00 3.31E+00 3.41E+00 4.61E+00 3.69E-06 140

POPULATION DOSE (Sv)
L-EDEWBODY TOT LIF 0-80.5 km 1.0000 7.96E+01 7.26E+01 1.40E+02
1.69E+02 2.53E+02 2.97E+02 3.67E+02 4.57E-04 138

POPULATION WEIGHTED RISK
CAN FAT/TOTAL 0-16.1 km 1.0000 4.13E-06 3.58E-06 7.19E-06
8.35E-06 1.01E-05 1.03E-05 1.17E-05 3.69E-06 140
  DATE AND TIME OF RUN = MACCS2 13-NOV-09 15:24:01 VERSION 1.13.1: last revised 1/8/04, K. McFadden
  "ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

SOURCE TERM 1 OF 8:
    NCF

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING APPLIED

```
    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:24:01    PAGE   2          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.74E-01  2.59E-01  4.71E-01
5.57E-01  8.03E-01  9.48E-01  1.21E+00  1.34E-03  118
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.30E-01  1.13E-01  2.35E-01
2.90E-01  3.34E-01 NOT-FOUND  3.50E-01  5.17E-03   31
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.86E+00  5.42E+00  1.01E+01
1.18E+01  1.68E+01  1.95E+01  2.57E+01  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.33E-07  3.02E-07  5.79E-07
6.89E-07  8.33E-07 NOT-FOUND  8.97E-07  5.17E-03   31
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
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  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:24:01    PAGE   3          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  3.30E+00  3.03E+00  6.10E+00
7.49E+00  1.01E+01  1.11E+01  1.55E+01  4.57E-04  138
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.50E+00  1.24E+00  2.50E+00
3.00E+00  3.19E+00  3.27E+00  4.29E+00  3.69E-06  140

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  7.38E+01  7.02E+01  1.27E+02
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1.51E+02  2.19E+02  2.50E+02  3.46E+02  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.80E-06  3.38E-06  7.04E-06
7.35E-06  8.15E-06  8.51E-06  1.09E-05  3.69E-06  140

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  7.38E+01  7.02E+01  1.27E+02
1.51E+02  2.19E+02  2.50E+02  3.46E+02  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  7.29E+01  7.01E+01  1.26E+02
1.50E+02  2.19E+02  2.50E+02  3.46E+02  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  8.06E-01  2.63E-01  2.69E+00
3.26E+00  4.17E+00  4.64E+00  6.60E+00  4.39E-05    2
 LONG-TERM GROUNDSHINE DOSE             1.0000  7.07E+01  6.79E+01  1.23E+02
1.46E+02  2.16E+02  2.48E+02  3.35E+02  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  2.28E+00  2.06E+00  4.25E+00
5.20E+00  7.12E+00  8.23E+00  1.08E+01  4.57E-04  138
 WATER INGESTION DOSE                   1.0000  4.54E-02  3.90E-02  7.62E-02
8.46E-02  1.04E-01  1.08E-01  1.20E-01  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    0.7358  1.32E-02  1.11E-02  3.07E-02
3.38E-02  4.24E-02  4.67E-02  7.19E-02  1.22E-03  142
 FARM-DEPENDENT DECONTAMINATION DOSE    0.7358  1.38E-06  1.13E-06  3.27E-06
3.65E-06  4.75E-06  5.41E-06  7.46E-06  1.22E-03  142
 INGESTION OF GRAINS                    1.0000  2.32E-02  4.02E-03  8.37E-02
1.04E-01  1.23E-01  1.32E-01  2.07E-01  4.39E-05    2
 INGESTION OF LEAF VEG                  1.0000  3.94E-02  5.76E-03  1.17E-01
1.64E-01  3.77E-01  4.52E-01  6.68E-01  2.56E-04   63
 INGESTION OF ROOT CROPS                1.0000  3.08E-02  5.64E-03  1.05E-01
1.19E-01  1.61E-01  1.83E-01  2.72E-01  4.39E-05    2
 INGESTION OF FRUITS                    1.0000  4.54E-02  8.15E-03  1.49E-01
2.06E-01  2.53E-01  2.77E-01  3.99E-01  4.39E-05    2
 INGESTION OF LEGUMES                   1.0000  2.64E-02  4.26E-03  9.88E-02
1.08E-01  1.28E-01  1.38E-01  2.31E-01  4.39E-05    2
 INGESTION OF BEEF                      1.0000  2.44E-01  8.11E-02  7.92E-01
1.02E+00  1.23E+00  1.33E+00  2.20E+00  4.39E-05    2
 INGESTION OF MILK                      1.0000  2.77E-01  7.47E-02  9.83E-01
1.14E+00  1.54E+00  1.75E+00  2.61E+00  4.39E-05    2
 INGESTION OF POULTRY                   1.0000  5.99E-02  1.51E-02  1.72E-01
2.41E-01  5.41E-01  6.02E-01  8.47E-01  2.56E-04   63
 INGESTION OF OTHER MEAT CROPS          1.0000  1.46E-02  7.49E-03  3.46E-02
4.62E-02  1.05E-01  1.13E-01  1.60E-01  2.56E-04   63

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   0.8501  2.60E+05  3.02E+05  3.79E+05
4.18E+05  7.20E+05  1.03E+06  1.36E+06  3.64E-05   25
 POP.-DEPENDENT COSTS                   0.7358  2.48E+05  3.02E+05  3.78E+05
4.17E+05  7.20E+05 NOT-FOUND  1.24E+06  6.35E-03    4
 FARM-DEPENDENT COSTS                   0.8501  1.24E+04  9.89E+02  4.14E+04
6.76E+04  8.06E+04  8.58E+04  1.19E+05  3.64E-05   25
 POP.-DEPENDENT DECONTAMINATION COST    0.7358  5.30E+04  7.03E+04  8.23E+04
8.80E+04  1.92E+05 NOT-FOUND  2.64E+05  6.35E-03    4
 FARM-DEPENDENT DECONTAMINATION COST    0.7358  4.25E+01  5.79E+01  8.18E+01
8.77E+01  1.34E+02 NOT-FOUND  2.11E+02  6.35E-03    4
 POP.-DEPENDENT INTERDICTION COST       0.7358  1.95E+05  3.02E+05  3.72E+05
4.06E+05  5.59E+05 NOT-FOUND  9.73E+05  6.35E-03    4
 FARM-DEPENDENT INTERDICTION COST       0.8501  9.94E+03  6.93E+02  2.85E+04
5.01E+04  5.84E+04  6.23E+04  9.51E+04  3.64E-05   25
 POP.-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 FARM-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 EMERGENCY PHASE COST                   0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
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 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:24:01    PAGE   4          PROB                           QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     0.7695  3.43E+01  5.50E-01  9.92E+01
1.57E+02  3.52E+02  5.02E+02  6.33E+02  6.85E-04   35
 CROP DISPOSAL COST                     0.7695  2.38E+03  1.92E+02  7.76E+03
1.07E+04  1.39E+04  1.56E+04  2.36E+04  1.28E-04   25
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RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:24:01    PAGE   6          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.9961  8.98E+01  4.39E+01  2.44E+02
3.10E+02  4.23E+02  4.83E+02  7.18E+02  2.85E-05   95
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.80E+04  1.10E+04  3.94E+04
6.31E+04  1.02E+05  1.05E+05  1.16E+05  4.57E-04   58
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.22E+03  3.72E+03  7.25E+03
8.55E+03  1.08E+04  1.14E+04  1.44E+04  2.28E-04   91
 ERL FAT/TOTAL              0-16.1 km  0.9961  8.98E+01  4.39E+01  2.44E+02
3.10E+02  4.23E+02  4.83E+02  7.18E+02  2.85E-05   95

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.9961  1.52E-01  1.18E-01  1.78E-01
2.01E-01  2.10E-01  2.13E-01  2.35E-01  1.14E-04   40
 ERL FAT/TOTAL             0.3-1.6 km  0.8360  1.64E-02  6.52E-03  4.07E-02
4.97E-02  5.63E-02  5.93E-02  6.76E-02  8.85E-04  141
 ERL FAT/TOTAL             1.6-3.2 km  0.3253  3.92E-04  0.00E+00  4.90E-04
1.33E-03  1.08E-02 NOT-FOUND  1.53E-02  5.71E-03   95

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  2.30E+05  1.24E+05  5.50E+05
7.98E+05  1.17E+06  1.29E+06  1.77E+06  4.57E-04  138

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.9961  5.37E-03  2.64E-03  1.27E-02
1.65E-02  2.32E-02  2.54E-02  4.19E-02  2.85E-05   95
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.08E-02  1.01E-02  1.75E-02
2.08E-02  2.56E-02  2.80E-02  3.69E-02  2.28E-04   91
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:24:01    PAGE   7          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.16E+04  5.26E+03  2.93E+04
3.22E+04  3.88E+04  4.20E+04  6.56E+04  4.57E-04  138
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.40E+02  3.18E+02  4.44E+02
5.06E+02  5.97E+02  6.41E+02  7.98E+02  2.57E-04   62
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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  2.60E+05  1.19E+05  6.36E+05
8.33E+05  1.12E+06  1.19E+06  1.49E+06  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  0.9829  3.81E-04  3.39E-04  6.36E-04
7.36E-04  9.39E-04  1.03E-03  1.34E-03  2.57E-04   62

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  2.60E+05  1.19E+05  6.36E+05
8.33E+05  1.12E+06  1.19E+06  1.49E+06  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  2.15E+05  9.05E+04  5.54E+05
6.68E+05  7.84E+05  8.28E+05  1.03E+06  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  2.62E+03  2.39E+03  4.05E+03
4.78E+03  5.74E+03  6.14E+03  6.97E+03  1.34E-03   91
 LONG-TERM GROUNDSHINE DOSE             1.0000  2.06E+05  8.69E+04  5.25E+05
6.33E+05  7.75E+05  8.21E+05  1.00E+06  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  9.58E+03  3.75E+03  2.40E+04
2.77E+04  3.40E+04 NOT-FOUND  3.52E+04  7.08E-03   22
 WATER INGESTION DOSE                   1.0000  2.42E+03  2.24E+03  3.84E+03
4.50E+03  5.63E+03  6.05E+03  6.94E+03  1.34E-03   91
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.26E+04  2.06E+04  1.12E+05
1.80E+05  2.35E+05  2.54E+05  5.24E+05  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  2.94E+01  1.25E+01  7.63E+01
9.21E+01  1.16E+02  1.25E+02  1.98E+02  8.56E-05  138
 INGESTION OF GRAINS                    1.0000  3.14E+00  1.33E+00  7.67E+00
9.60E+00  2.04E+01  2.13E+01  3.20E+01  7.70E-06   55
 INGESTION OF LEAF VEG                  1.0000  2.19E+01  1.03E+01  5.59E+01
6.65E+01  8.74E+01  9.75E+01  1.54E+02  1.60E-03  138
 INGESTION OF ROOT CROPS                1.0000  1.34E+01  5.99E+00  3.20E+01
3.56E+01  4.56E+01  5.23E+01  9.20E+01  1.60E-03  138
 INGESTION OF FRUITS                    1.0000  1.27E+01  5.95E+00  3.29E+01
3.96E+01  5.52E+01  6.06E+01  8.04E+01  1.60E-03  138
 INGESTION OF LEGUMES                   1.0000  2.59E+01  1.18E+01  6.82E+01
7.95E+01  1.14E+02  1.37E+02  1.86E+02  1.60E-03  138
 INGESTION OF BEEF                      1.0000  5.80E+01  1.27E+01  1.84E+02
3.04E+02  4.15E+02  4.75E+02  4.99E+02  3.88E-03  104
 INGESTION OF MILK                      1.0000  4.93E+01  1.29E+01  1.63E+02
2.45E+02  3.37E+02  3.61E+02  4.79E+02  3.14E-04  114
 INGESTION OF POULTRY                   1.0000  1.05E+01  3.12E+00  3.28E+01
4.06E+01  5.52E+01  5.94E+01  8.33E+01  4.05E-05   85
 INGESTION OF OTHER MEAT CROPS          1.0000  4.86E+00  1.39E+00  1.60E+01
2.18E+01  3.00E+01  3.16E+01  4.54E+01  4.05E-05   85

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  1.53E+11  8.05E+10  3.88E+11
5.01E+11  5.70E+11  6.02E+11  1.14E+12  1.71E-04  112
 POP.-DEPENDENT COSTS                   1.0000  1.52E+11  8.02E+10  3.88E+11
5.01E+11  5.70E+11  6.02E+11  1.14E+12  1.71E-04  112
 FARM-DEPENDENT COSTS                   1.0000  3.74E+08  2.01E+08  1.01E+09
1.07E+09  1.24E+09  1.32E+09  1.47E+09  1.60E-03  138
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  3.62E+10  1.47E+10  1.01E+11
1.11E+11  1.35E+11  1.48E+11  2.00E+11  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  3.55E+07  1.66E+07  8.24E+07
9.49E+07  1.23E+08  1.37E+08  1.63E+08  1.60E-03  138
 POP.-DEPENDENT INTERDICTION COST       1.0000  1.09E+11  5.35E+10  2.85E+11
3.19E+11  3.79E+11  4.08E+11  9.54E+11  1.71E-04  112
 FARM-DEPENDENT INTERDICTION COST       1.0000  2.93E+08  1.28E+08  7.40E+08
7.97E+08  9.49E+08  1.03E+09  1.24E+09  1.60E-03  138
 POP.-DEPENDENT CONDEMNATION COST       1.0000  7.30E+09  5.48E+09  1.18E+10
1.52E+10  5.11E+10  5.43E+10  6.45E+10  6.98E-04  142
 FARM-DEPENDENT CONDEMNATION COST       1.0000  7.52E+06  4.90E+06  1.49E+07
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2.39E+07  5.14E+07  5.24E+07  5.86E+07  8.85E-05  142
 EMERGENCY PHASE COST                    1.0000  1.11E+08  5.32E+07  2.29E+08
3.31E+08  6.32E+08  1.10E+09  1.93E+09  1.71E-04  112
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:24:01    PAGE   8          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  9.89E+05  1.91E+05  2.69E+06
3.31E+06  4.94E+06  5.17E+06  6.26E+06  1.14E-04  138
 CROP DISPOSAL COST                      1.0000  3.66E+07  3.41E+07  5.82E+07
6.44E+07  7.75E+07  8.30E+07  9.89E+07  8.56E-04  129
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SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:24:01    PAGE  10          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.9353  8.85E+00  4.34E+00  2.24E+01
2.54E+01  3.65E+01  4.45E+01  5.28E+01  2.85E-05   95
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.14E+03  4.21E+03  1.32E+04
1.87E+04  3.14E+04  3.25E+04  4.36E+04  1.23E-05  149
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.54E+03  1.30E+03  2.52E+03
3.00E+03  3.52E+03  3.77E+03  5.38E+03  2.85E-05   57
 ERL FAT/TOTAL               0-16.1 km  0.9353  8.85E+00  4.34E+00  2.24E+01
2.54E+01  3.65E+01  4.45E+01  5.28E+01  2.85E-05   95

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.9353  4.18E-02  3.15E-02  8.20E-02
9.05E-02  1.03E-01  1.06E-01  1.19E-01  1.43E-04   21
 ERL FAT/TOTAL              0.3-1.6 km  0.0611  6.80E-05  0.00E+00  0.00E+00
9.11E-05  3.21E-03 NOT-FOUND  4.26E-03  5.71E-03   95
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  7.47E+04  4.38E+04  1.58E+05
2.54E+05  3.43E+05  3.66E+05  5.72E+05  1.71E-04  112

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.9353  5.31E-04  2.64E-04  1.23E-03
1.42E-03  1.99E-03  2.57E-03  3.17E-03  2.85E-05   95
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.95E-03  3.53E-03  6.49E-03
7.33E-03  8.83E-03  9.57E-03  1.38E-02  2.85E-05   57
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:24:01    PAGE  11          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.17E+03  2.47E+03  1.32E+04
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1.75E+04  2.19E+04  2.31E+04  2.75E+04  4.57E-04  138
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.94E+02  2.68E+02  4.38E+02
5.07E+02  5.66E+02  5.93E+02  7.80E+02  2.95E-05  142

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.14E+05  5.20E+04  2.74E+05
3.37E+05  4.99E+05  5.22E+05  6.08E+05  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.46E-04  3.17E-04  5.11E-04
5.30E-04  5.75E-04  5.95E-04  7.43E-04  7.07E-06  134

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.14E+05  5.20E+04  2.74E+05
3.37E+05  4.99E+05  5.22E+05  6.08E+05  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.01E+05  4.30E+04  2.61E+05
3.26E+05  4.88E+05 NOT-FOUND  5.02E+05  8.59E-03   96
 TOTAL INGESTION PATHWAYS DOSE          1.0000  3.76E+02  3.02E+02  6.97E+02
7.74E+02  9.82E+02  1.01E+03  1.02E+03  3.48E-03   61
 LONG-TERM GROUNDSHINE DOSE             1.0000  8.99E+04  3.87E+04  2.38E+05
2.98E+05  3.43E+05  3.64E+05  4.45E+05  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  1.12E+04  4.55E+03  3.01E+04
3.56E+04  5.37E+04 NOT-FOUND  5.69E+04  8.59E-03   96
 WATER INGESTION DOSE                   1.0000  1.86E+02  1.57E+02  3.09E+02
3.47E+02  4.55E+02  5.03E+02  5.36E+02  1.34E-03   91
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  1.21E+04  7.62E+03  2.53E+04
3.81E+04  5.56E+04  5.90E+04  1.38E+05  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  8.11E+00  3.51E+00  2.22E+01
2.78E+01  3.38E+01  3.59E+01  4.78E+01  1.82E-04    1
 INGESTION OF GRAINS                    1.0000  4.85E+00  9.21E-01  1.55E+01
2.15E+01  3.18E+01  3.47E+01  3.58E+01  3.88E-03   35
 INGESTION OF LEAF VEG                  1.0000  1.47E+01  4.44E+00  3.34E+01
7.21E+01  1.17E+02  1.31E+02  1.83E+02  6.56E-04   61
 INGESTION OF ROOT CROPS                1.0000  7.28E+00  2.44E+00  2.30E+01
2.96E+01  4.01E+01  4.56E+01  4.77E+01  3.88E-03   35
 INGESTION OF FRUITS                    1.0000  1.06E+01  3.53E+00  3.43E+01
4.51E+01  6.09E+01  6.74E+01  6.99E+01  3.88E-03   35
 INGESTION OF LEGUMES                   1.0000  9.44E+00  4.19E+00  2.44E+01
3.01E+01  3.83E+01  4.25E+01  4.41E+01  3.88E-03   35
 INGESTION OF BEEF                      1.0000  7.35E+01  3.41E+01  1.80E+02
2.29E+02  3.07E+02  3.14E+02  3.77E+02  2.85E-05   96
 INGESTION OF MILK                      1.0000  4.82E+01  2.00E+01  1.23E+02
1.64E+02  3.01E+02  3.12E+02  4.01E+02  2.85E-05   96
 INGESTION OF POULTRY                   1.0000  1.63E+01  7.66E+00  3.98E+01
5.48E+01  1.00E+02  1.03E+02  1.14E+02  6.56E-04   61
 INGESTION OF OTHER MEAT CROPS          1.0000  5.64E+00  2.58E+00  1.53E+01
2.08E+01  2.74E+01  3.04E+01  3.42E+01  1.23E-03   84

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  4.90E+10  2.26E+10  1.41E+11
2.10E+11  2.48E+11  2.67E+11  4.34E+11  4.57E-04  138
 POP.-DEPENDENT COSTS                   1.0000  4.88E+10  2.26E+10  1.41E+11
2.10E+11  2.48E+11  2.67E+11  4.34E+11  4.57E-04  138
 FARM-DEPENDENT COSTS                   1.0000  1.46E+08  6.63E+07  4.02E+08
5.14E+08  6.65E+08  8.01E+08  1.19E+09  1.60E-03  138
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.17E+10  5.38E+09  2.89E+10
5.11E+10  7.02E+10  7.67E+10  1.19E+11  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.32E+07  6.11E+06  3.28E+07
3.65E+07  4.67E+07  5.52E+07  8.63E+07  8.56E-05  138
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.64E+10  1.45E+10  9.49E+10
1.23E+11  2.02E+11  2.20E+11  3.15E+11  4.57E-04  138
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.17E+08  4.14E+07  3.51E+08
4.20E+08  6.00E+08  6.86E+08  1.05E+09  1.60E-03  138
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 POP.-DEPENDENT CONDEMNATION COST       1.0000  6.76E+08  5.54E+08  1.32E+09
1.73E+09  2.30E+09  2.49E+09  4.10E+09  2.28E-04   76
 FARM-DEPENDENT CONDEMNATION COST       0.9961  2.52E+05  2.18E+05  4.86E+05
6.42E+05  1.05E+06  1.15E+06  1.78E+06  1.43E-04   91
 EMERGENCY PHASE COST                   1.0000  1.89E+07  1.20E+07  5.11E+07
6.68E+07  7.27E+07  7.40E+07  8.07E+07  1.67E-04  134
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:24:01    PAGE  12          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  4.98E+05  3.71E+04  1.52E+06
2.18E+06  3.56E+06  4.07E+06  6.26E+06  1.14E-04  138
 CROP DISPOSAL COST                     1.0000  1.47E+07  9.32E+06  3.39E+07
4.16E+07  5.72E+07  6.30E+07  8.95E+07  3.42E-04  138
XXXX
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XXXX

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  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:24:01    PAGE  14          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.53E+02  5.14E+02  1.35E+03
1.86E+03  2.23E+03  2.35E+03  3.39E+03  1.23E-05  149
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.37E+02  2.13E+02  3.88E+02
4.58E+02  5.25E+02  5.39E+02  6.93E+02  7.07E-06  134
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  9.53E+03  6.93E+03  1.97E+04
2.82E+04  3.45E+04  3.68E+04  6.39E+04  1.71E-04  112

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  6.06E-04  5.58E-04  1.00E-03
1.05E-03  1.15E-03  1.20E-03  1.78E-03  7.07E-06  134
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:24:01    PAGE  15          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.73E+03  8.06E+02  4.13E+03
6.66E+03  1.16E+04  1.30E+04  1.90E+04  4.57E-04  138
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.22E+02  1.08E+02  1.72E+02
2.01E+02  2.14E+02  2.20E+02  2.77E+02  1.32E-05   98

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  3.79E+04  1.73E+04  9.94E+04
1.54E+05  2.24E+05  2.39E+05  4.15E+05  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.44E-04  2.22E-04  3.22E-04
3.39E-04  3.81E-04  4.00E-04  5.15E-04  2.01E-06   20

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  3.79E+04  1.73E+04  9.94E+04
1.54E+05  2.24E+05  2.39E+05  4.15E+05  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  3.69E+04  1.52E+04  9.94E+04
1.54E+05  2.24E+05  2.39E+05  4.15E+05  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.27E+02  6.34E+01  3.27E+02
4.18E+02  5.53E+02  5.89E+02  6.88E+02  9.13E-04   62
 LONG-TERM GROUNDSHINE DOSE             1.0000  3.33E+04  1.41E+04  8.55E+04
1.20E+05  2.13E+05  2.30E+05  3.74E+05  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  3.60E+03  1.49E+03  9.14E+03
1.37E+04  2.20E+04  2.36E+04  4.07E+04  4.57E-04  138
 WATER INGESTION DOSE                   1.0000  2.43E+01  2.26E+01  3.89E+01
4.57E+01  5.68E+01  6.11E+01  7.03E+01  1.34E-03   91
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  8.12E+02  7.28E+02  1.35E+03
1.63E+03  2.21E+03  2.40E+03  1.16E+04  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.39E-01  3.00E-01  9.26E-01
1.27E+00  2.11E+00  2.27E+00  3.97E+00  5.35E-05  124
 INGESTION OF GRAINS                    1.0000  3.60E+00  2.06E-01  1.21E+01
1.56E+01  2.19E+01  2.35E+01  2.80E+01  8.85E-04   35
 INGESTION OF LEAF VEG                  1.0000  8.39E+00  1.15E+00  2.25E+01
4.15E+01  1.00E+02  1.12E+02  1.47E+02  9.13E-04   62
 INGESTION OF ROOT CROPS                1.0000  4.84E+00  5.66E-01  1.79E+01
2.30E+01  3.12E+01  3.27E+01  3.67E+01  8.85E-04   35
 INGESTION OF FRUITS                    1.0000  7.14E+00  9.42E-01  2.66E+01
3.42E+01  5.04E+01  5.14E+01  5.40E+01  8.85E-04   35
 INGESTION OF LEGUMES                   1.0000  4.55E+00  1.11E+00  1.41E+01
2.01E+01  2.64E+01  2.98E+01  3.18E+01  8.85E-04   35
 INGESTION OF BEEF                      1.0000  3.85E+01  1.56E+01  1.08E+02
1.26E+02  1.84E+02  2.02E+02  2.39E+02  7.70E-06  120
 INGESTION OF MILK                      1.0000  2.35E+01  9.59E+00  6.57E+01
8.10E+01  1.04E+02  1.07E+02  1.31E+02  5.71E-05   19
 INGESTION OF POULTRY                   1.0000  9.75E+00  3.31E+00  2.57E+01
4.15E+01  7.43E+01  8.13E+01  1.07E+02  9.13E-04   62
 INGESTION OF OTHER MEAT CROPS          1.0000  2.57E+00  1.05E+00  6.29E+00
8.40E+00  1.24E+01  1.41E+01  1.91E+01  9.13E-04   62

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  3.85E+09  2.47E+09  6.60E+09
8.53E+09  3.05E+10  3.34E+10  1.67E+11  1.71E-04  112
 POP.-DEPENDENT COSTS                   1.0000  3.82E+09  2.41E+09  6.56E+09
8.48E+09  3.05E+10  3.34E+10  1.67E+11  1.71E-04  112
 FARM-DEPENDENT COSTS                   1.0000  2.97E+07  9.91E+06  9.60E+07
1.32E+08  2.29E+08  2.66E+08  6.62E+08  8.56E-05  138
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  8.73E+08  5.68E+08  1.48E+09
1.84E+09  7.09E+09  7.62E+09  3.58E+10  1.71E-04  112
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.45E+06  4.82E+05  4.10E+06
5.35E+06  8.18E+06  9.24E+06  1.73E+07  4.00E-04  112
 POP.-DEPENDENT INTERDICTION COST       1.0000  2.91E+09  1.78E+09  5.29E+09
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6.45E+09 2.03E+10 2.20E+10 1.32E+11 1.71E-04 112
 FARM-DEPENDENT INTERDICTION COST 1.0000 2.46E+07 5.59E+06 7.43E+07
1.20E+08 2.11E+08 2.57E+08 6.30E+08 8.56E-05 138
 POP.-DEPENDENT CONDEMNATION COST 0.9655 3.32E+07 1.25E+07 1.02E+08
1.03E+08 1.08E+08 1.10E+08 1.35E+08 1.80E-06 40
 FARM-DEPENDENT CONDEMNATION COST 0.9594 7.35E+03 6.69E+03 8.56E+03
9.34E+03 7.15E+04 7.31E+04 7.73E+04 7.67E-04 2
 EMERGENCY PHASE COST 1.0000 1.76E+06 1.39E+06 3.30E+06
4.18E+06 5.43E+06 5.72E+06 8.76E+06 2.85E-05 57
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
13-NOV-09 15:24:01 PAGE 16 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($) 0-80.5 km
 MILK DISPOSAL COST 1.0000 1.82E+05 1.07E+04 7.31E+05
1.04E+06 1.94E+06 2.24E+06 4.41E+06 1.14E-04 138
 CROP DISPOSAL COST 1.0000 3.46E+06 1.05E+06 8.83E+06
1.25E+07 3.06E+07 3.45E+07 5.71E+07 5.71E-04 138
XXXX

XXXX

XXXX

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1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:24:01    PAGE  18          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.3455  2.91E-01  0.00E+00  1.06E+00
1.68E+00 NOT-FOUND NOT-FOUND  3.51E+00  3.59E-02   31
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.61E+03  1.18E+03  3.19E+03
4.24E+03  6.05E+03  6.76E+03  9.05E+03  1.34E-03  118
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.76E+02  4.30E+02  8.10E+02
9.58E+02  1.11E+03 NOT-FOUND  1.17E+03  5.17E-03   31
 ERL FAT/TOTAL               0-16.1 km  0.3455  2.91E-01  0.00E+00  1.06E+00
1.68E+00 NOT-FOUND NOT-FOUND  3.51E+00  3.59E-02   31

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.3455  1.30E-03  0.00E+00  3.54E-03
6.88E-03 NOT-FOUND NOT-FOUND  1.29E-02  4.90E-02   31
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.47E+04  2.61E+04  7.34E+04
9.89E+04  1.36E+05  1.55E+05  2.14E+05  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.3455  1.75E-05  0.00E+00  5.21E-05
7.56E-05 NOT-FOUND NOT-FOUND  2.11E-04  3.59E-02   31
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.22E-03  1.07E-03  2.04E-03
2.23E-03  2.75E-03 NOT-FOUND  2.99E-03  5.17E-03   31
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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                                PROB                                QUANTILES
                        PEAK      PEAK  PEAK
                                NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  5.00E+03  2.40E+03  1.18E+04
1.43E+04  2.06E+04  2.16E+04  2.80E+04  1.32E-04   41
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.39E+02  2.16E+02  3.22E+02
3.41E+02  3.88E+02  4.10E+02  7.00E+02  5.84E-06   48

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.12E+05  5.13E+04  3.03E+05
3.44E+05  4.63E+05  5.08E+05  6.28E+05  1.32E-04   41

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.13E-04  3.64E-04  6.30E-04
7.06E-04  7.61E-04  7.86E-04  1.29E-03  5.84E-06   48

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.12E+05  5.13E+04  3.03E+05
3.44E+05  4.63E+05  5.08E+05  6.28E+05  1.32E-04   41
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.07E+05  4.60E+04  3.01E+05
3.42E+05  4.62E+05  5.07E+05  6.14E+05  1.32E-04   41
 TOTAL INGESTION PATHWAYS DOSE          1.0000  4.49E+02  3.97E+02  7.31E+02
7.71E+02  8.73E+02  9.21E+02  1.09E+03  4.77E-05  140
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.04E+05  4.49E+04  3.01E+05
3.40E+05  4.51E+05  5.03E+05  6.00E+05  1.32E-04   41
 LONG-TERM RESUSPENSION DOSE            1.0000  2.33E+03  9.29E+02  6.81E+03
7.90E+03  1.02E+04  1.07E+04  1.38E+04  1.32E-04   41
 WATER INGESTION DOSE                   1.0000  3.81E+02  3.35E+02  7.07E+02
7.45E+02  8.44E+02  8.90E+02  1.01E+03  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.70E+03  3.45E+03  9.92E+03
1.19E+04  1.81E+04  2.21E+04  3.70E+04  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.95E+00  2.07E+00  1.04E+01
1.18E+01  1.57E+01  1.79E+01  2.55E+01  4.39E-05    2
 INGESTION OF GRAINS                    1.0000  1.93E+00  6.81E-01  6.69E+00
8.14E+00  1.04E+01  1.08E+01  1.46E+01  1.23E-05   20
 INGESTION OF LEAF VEG                  1.0000  3.72E+00  1.73E+00  1.05E+01
1.27E+01  1.94E+01  2.11E+01  3.23E+01  8.56E-05   62
 INGESTION OF ROOT CROPS                1.0000  2.88E+00  1.20E+00  9.31E+00
1.05E+01  1.21E+01  1.28E+01  1.95E+01  4.05E-05  130
 INGESTION OF FRUITS                    1.0000  5.59E+00  2.70E+00  1.31E+01
1.76E+01  2.12E+01  2.19E+01  2.96E+01  6.74E-06   20
 INGESTION OF LEGUMES                   1.0000  3.42E+00  1.70E+00  9.89E+00
1.04E+01  1.14E+01  1.19E+01  1.76E+01  6.74E-06   20
 INGESTION OF BEEF                      1.0000  2.45E+01  8.85E+00  6.65E+01
9.54E+01  1.15E+02  1.23E+02  1.80E+02  8.56E-05  107
 INGESTION OF MILK                      1.0000  1.61E+01  5.47E+00  4.86E+01
6.76E+01  1.05E+02  1.11E+02  1.52E+02  8.56E-05  107
 INGESTION OF POULTRY                   1.0000  5.99E+00  3.18E+00  1.27E+01
1.51E+01  2.26E+01  2.69E+01  4.06E+01  8.56E-05   62
 INGESTION OF OTHER MEAT CROPS          1.0000  3.88E+00  1.35E+00  1.15E+01
1.45E+01  2.06E+01  2.12E+01  2.69E+01  2.21E-05   85

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  4.09E+10  2.13E+10  9.52E+10
2.01E+11  2.24E+11  2.36E+11  3.23E+11  1.57E-04    2
 POP.-DEPENDENT COSTS                   1.0000  4.07E+10  2.13E+10  9.51E+10
2.01E+11  2.24E+11  2.36E+11  3.23E+11  1.57E-04    2
 FARM-DEPENDENT COSTS                   1.0000  2.22E+08  1.26E+08  6.27E+08
7.20E+08  7.88E+08  8.20E+08  1.04E+09  9.63E-06    9
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  9.49E+09  4.72E+09  2.41E+10
3.76E+10  6.08E+10  6.90E+10  9.29E+10  1.57E-04    2
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 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.16E+07  5.03E+06  3.08E+07
3.36E+07  4.11E+07  4.48E+07  5.92E+07  4.91E-05    2
 POP.-DEPENDENT INTERDICTION COST       1.0000  2.98E+10  1.31E+10  6.80E+10
1.11E+11  1.57E+11  1.82E+11  2.29E+11  1.57E-04    2
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.81E+08  6.84E+07  5.38E+08
6.41E+08  7.38E+08  7.60E+08  9.54E+08  2.21E-05  134
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.43E+09  1.16E+09  2.90E+09
3.23E+09  3.90E+09  4.24E+09  5.78E+09  5.84E-06  119
 FARM-DEPENDENT CONDEMNATION COST       1.0000  4.90E+05  3.78E+05  1.03E+06
1.15E+06  1.50E+06  1.69E+06  1.90E+06  2.47E-03   35
 EMERGENCY PHASE COST                   1.0000  8.41E+06  7.72E+06  1.18E+07
1.31E+07  1.68E+07  1.87E+07  2.09E+07  9.53E-06    5
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:24:01    PAGE  20          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  8.74E+05  1.57E+05  2.50E+06
3.15E+06  4.61E+06  5.08E+06  6.26E+06  3.70E-05   41
 CROP DISPOSAL COST                     1.0000  2.77E+07  2.30E+07  5.23E+07
5.63E+07  6.67E+07  7.05E+07  8.38E+07  1.23E-05   41
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 CAN FAT/TOTAL                0-16.1 km  1.0000  7.71E-04  7.13E-04  1.06E-03
1.12E-03  1.26E-03  1.32E-03  1.77E-03  8.56E-05   12
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:24:01    PAGE  22          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-80.5 km  1.0000  4.32E+02  3.61E+02  8.28E+02
1.05E+03  1.40E+03  1.58E+03  2.13E+03  1.34E-03  118
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.77E+02  1.46E+02  3.04E+02
3.14E+02  3.39E+02  3.51E+02  4.26E+02  8.56E-05   12
 ERL FAT/TOTAL                0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  7.86E+03  7.00E+03  1.63E+04
2.09E+04  2.71E+04  3.06E+04  4.29E+04  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-16.1 km  1.0000  4.53E-04  3.99E-04  7.55E-04
8.45E-04  1.01E-03  1.02E-03  1.09E-03  8.56E-05   12
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE
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13-NOV-09  15:24:01    PAGE  23          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.38E+03  1.15E+03  6.07E+03
8.70E+03  1.13E+04  1.21E+04  1.65E+04  1.57E-04    2
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.51E+02  1.27E+02  2.11E+02
2.25E+02  2.59E+02  2.76E+02  3.46E+02  5.84E-06   48

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.31E+04  2.58E+04  1.36E+05
2.01E+05  3.02E+05  3.12E+05  3.69E+05  1.57E-04    2

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.17E-04  3.05E-04  4.97E-04
5.13E-04  5.44E-04  5.58E-04  7.71E-04  5.84E-06   48

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  5.31E+04  2.58E+04  1.36E+05
2.01E+05  3.02E+05  3.12E+05  3.69E+05  1.57E-04    2
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  5.21E+04  2.44E+04  1.36E+05
2.01E+05  3.02E+05  3.12E+05  3.66E+05  1.57E-04    2
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.58E+02  1.20E+02  3.04E+02
3.21E+02  3.63E+02  3.83E+02  4.57E+02  5.25E-04   63
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.01E+04  2.36E+04  1.26E+05
1.81E+05  3.02E+05  3.10E+05  3.52E+05  1.57E-04    2
 LONG-TERM RESUSPENSION DOSE            1.0000  2.03E+03  9.08E+02  5.14E+03
7.78E+03  1.07E+04  1.12E+04  1.43E+04  1.57E-04    2
 WATER INGESTION DOSE                   1.0000  7.19E+01  6.41E+01  1.11E+02
1.20E+02  1.46E+02  1.59E+02  1.90E+02  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.95E+02  6.75E+02  1.31E+03
1.56E+03  2.14E+03  2.31E+03  4.92E+03  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  5.31E-01  3.39E-01  1.09E+00
1.59E+00  2.65E+00  3.03E+00  4.00E+00  2.86E-05  141
 INGESTION OF GRAINS                    1.0000  2.38E+00  2.80E-01  8.65E+00
1.06E+01  1.34E+01  1.48E+01  2.35E+01  2.28E-04   36
 INGESTION OF LEAF VEG                  1.0000  4.43E+00  1.04E+00  1.32E+01
1.96E+01  3.64E+01  4.17E+01  5.86E+01  5.25E-04   63
 INGESTION OF ROOT CROPS                1.0000  3.26E+00  6.21E-01  1.07E+01
1.20E+01  1.56E+01  1.75E+01  3.09E+01  2.28E-04   36
 INGESTION OF FRUITS                    1.0000  5.07E+00  1.34E+00  1.62E+01
2.09E+01  2.52E+01  2.73E+01  4.58E+01  2.28E-04   36
 INGESTION OF LEGUMES                   1.0000  3.12E+00  1.06E+00  1.04E+01
1.15E+01  1.44E+01  1.59E+01  2.67E+01  2.28E-04   36
 INGESTION OF BEEF                      1.0000  3.29E+01  1.55E+01  8.52E+01
1.03E+02  1.23E+02  1.33E+02  1.75E+02  4.00E-04  112
 INGESTION OF MILK                      1.0000  2.38E+01  1.12E+01  6.63E+01
8.11E+01  1.06E+02  1.11E+02  1.35E+02  4.00E-04  112
 INGESTION OF POULTRY                   1.0000  7.96E+00  3.44E+00  1.94E+01
2.61E+01  4.66E+01  5.31E+01  7.01E+01  5.25E-04   63
 INGESTION OF OTHER MEAT CROPS          1.0000  3.61E+00  1.60E+00  1.04E+01
1.14E+01  1.43E+01  1.57E+01  1.99E+01  8.85E-04   88

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.84E+09  4.57E+09  1.04E+10
1.47E+10  3.28E+10  3.61E+10  1.24E+11  4.57E-04  138
 POP.-DEPENDENT COSTS                   1.0000  5.75E+09  4.47E+09  1.04E+10
1.47E+10  3.28E+10  3.61E+10  1.24E+11  4.57E-04  138
 FARM-DEPENDENT COSTS                   1.0000  8.33E+07  3.22E+07  2.97E+08
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3.30E+08  4.12E+08  4.54E+08  5.76E+08  4.14E-05   41
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.32E+09  1.01E+09  2.88E+09
3.91E+09  7.56E+09  8.20E+09  2.65E+10  4.57E-04  138
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.23E+06  1.04E+06  6.22E+06
8.15E+06  1.09E+07  1.15E+07  1.84E+07  1.75E-05   48
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.25E+09  3.18E+09  7.34E+09
1.16E+10  2.19E+10  2.41E+10  9.69E+10  4.57E-04  138
 FARM-DEPENDENT INTERDICTION COST       1.0000  7.02E+07  1.70E+07  2.59E+08
3.12E+08  3.64E+08  3.89E+08  5.22E+08  4.14E-05   41
 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.86E+08  1.24E+08  3.86E+08
4.66E+08  1.02E+09 NOT-FOUND  1.05E+09  5.34E-03   31
 FARM-DEPENDENT CONDEMNATION COST       1.0000  4.82E+04  3.07E+04  9.27E+04
1.35E+05 NOT-FOUND NOT-FOUND  2.90E+05  1.07E-02   31
 EMERGENCY PHASE COST                   1.0000  1.72E+06  1.32E+06  3.51E+06
4.98E+06  5.28E+06  5.41E+06  6.83E+06  5.84E-06  119
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:24:01    PAGE  24          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  4.49E+05  3.23E+04  1.33E+06
1.81E+06  3.24E+06  3.51E+06  5.60E+06  3.70E-05   41
 CROP DISPOSAL COST                     1.0000  1.04E+07  5.49E+06  2.68E+07
3.20E+07  4.07E+07  4.51E+07  6.37E+07  6.60E-06  134
XXXX
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4.06E+04  6.22E+04  7.14E+04  1.00E+05  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.81E-04  2.51E-04  4.15E-04
4.92E-04  5.28E-04  5.41E-04  6.86E-04  5.84E-06   48
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:24:01    PAGE  26          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  7.60E+01  7.01E+01  1.36E+02
1.67E+02  2.34E+02  2.60E+02  3.68E+02  1.34E-03  118
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.23E+01  3.03E+01  5.74E+01
7.02E+01  7.24E+01  7.34E+01  8.33E+01  7.07E-06   38
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.61E+03  1.22E+03  2.86E+03
3.46E+03  5.19E+03  5.75E+03  8.00E+03  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  8.28E-05  7.53E-05  1.17E-04
1.31E-04  1.70E-04  1.90E-04  2.13E-04  7.07E-06   38
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  7 OF  8:
    LATE LOW
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RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:24:01    PAGE  27          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.92E+02  3.76E+02  1.33E+03
1.80E+03  2.61E+03  2.99E+03  4.17E+03  4.57E-04  138
 CAN FAT/TOTAL               0-16.1 km  1.0000  8.19E+01  7.53E+01  1.11E+02
1.18E+02  1.38E+02  1.48E+02  2.42E+02  5.84E-06   48

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.33E+04  9.02E+03  2.97E+04
3.89E+04  6.05E+04  6.94E+04  9.36E+04  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.98E-04  1.76E-04  3.05E-04
3.22E-04  3.67E-04  3.87E-04  6.09E-04  5.84E-06   48

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.33E+04  9.02E+03  2.97E+04
3.89E+04  6.05E+04  6.94E+04  9.36E+04  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.31E+04  8.75E+03  2.97E+04
3.89E+04  6.05E+04  6.94E+04  9.35E+04  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  7.71E+01  3.65E+01  2.13E+02
2.95E+02  3.33E+02  3.48E+02  4.80E+02  3.70E-05   41
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.25E+04  8.28E+03  2.84E+04
3.61E+04  5.82E+04  6.92E+04  8.94E+04  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  5.68E+02  3.63E+02  1.23E+03
1.60E+03  2.53E+03  2.98E+03  4.08E+03  4.57E-04  138
 WATER INGESTION DOSE                   1.0000  1.46E+01  1.22E+01  2.50E+01
2.99E+01  3.32E+01  3.47E+01  3.82E+01  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  8.77E+01  7.82E+01  1.49E+02
1.88E+02  2.21E+02  2.31E+02  2.93E+02  1.61E-04   80
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.77E-02  2.78E-02  7.66E-02
8.98E-02  1.40E-01  1.72E-01  3.05E-01  1.63E-05  119
 INGESTION OF GRAINS                    1.0000  2.28E+00  1.54E-01  8.95E+00
1.07E+01  1.32E+01  1.45E+01  2.27E+01  3.70E-05   41
 INGESTION OF LEAF VEG                  1.0000  4.29E+00  5.38E-01  1.21E+01
1.83E+01  5.14E+01  5.50E+01  6.74E+01  6.56E-04   61
 INGESTION OF ROOT CROPS                1.0000  3.10E+00  4.03E-01  1.08E+01
1.29E+01  1.96E+01  2.09E+01  2.99E+01  3.70E-05   41
 INGESTION OF FRUITS                    1.0000  4.51E+00  5.29E-01  1.61E+01
2.16E+01  2.92E+01  3.12E+01  4.38E+01  3.70E-05   41
 INGESTION OF LEGUMES                   1.0000  2.79E+00  5.66E-01  1.01E+01
1.13E+01  1.46E+01  1.63E+01  2.58E+01  3.70E-05   41
 INGESTION OF BEEF                      1.0000  2.24E+01  7.61E+00  6.94E+01
9.87E+01  1.12E+02  1.18E+02  1.64E+02  4.91E-05    2
 INGESTION OF MILK                      1.0000  1.50E+01  5.46E+00  4.18E+01
5.57E+01  7.40E+01  7.74E+01  1.04E+02  2.21E-05  134
 INGESTION OF POULTRY                   1.0000  6.61E+00  1.85E+00  1.81E+01
2.76E+01  7.13E+01  7.52E+01  8.75E+01  6.56E-04   61
 INGESTION OF OTHER MEAT CROPS          1.0000  1.52E+00  5.06E-01  3.37E+00
4.71E+00  1.09E+01  1.19E+01  1.54E+01  6.56E-04   61

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  7.45E+08  6.72E+08  1.06E+09
1.12E+09  1.25E+09  1.31E+09  2.11E+09  3.69E-06  140
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 POP.-DEPENDENT COSTS                    1.0000  7.29E+08  6.49E+08  1.06E+09
1.12E+09  1.25E+09  1.31E+09  2.09E+09  3.69E-06  140
 FARM-DEPENDENT COSTS                    1.0000  1.63E+07  3.12E+06  5.76E+07
7.93E+07  1.09E+08  1.15E+08  1.85E+08  1.75E-05   48
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.78E+08  1.49E+08  3.04E+08
3.15E+08  3.40E+08  3.52E+08  5.10E+08  3.69E-06  140
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  2.23E+05  1.19E+05  4.63E+05
7.87E+05  1.04E+06  1.08E+06  1.42E+06  1.63E-05  119
 POP.-DEPENDENT INTERDICTION COST        1.0000  5.31E+08  4.60E+08  9.76E+08
1.02E+09  1.09E+09  1.12E+09  1.46E+09  3.69E-06  140
 FARM-DEPENDENT INTERDICTION COST        1.0000  1.41E+07  2.29E+06  5.31E+07
7.51E+07  1.18E+08  1.37E+08  1.74E+08  1.60E-03  138
 POP.-DEPENDENT CONDEMNATION COST        0.9366  1.97E+07  5.27E+06  1.01E+08
1.09E+08 NOT-FOUND NOT-FOUND  1.25E+08  1.31E-02   14
 FARM-DEPENDENT CONDEMNATION COST        0.9366  1.47E+04  4.04E+03  7.01E+04
7.40E+04 NOT-FOUND NOT-FOUND  7.73E+04  2.83E-02   14
 EMERGENCY PHASE COST                    1.0000  1.90E+05  1.11E+05  4.88E+05
6.90E+05  1.04E+06 NOT-FOUND  1.13E+06  5.17E-03   31
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:24:01    PAGE  28          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  1.14E+05  7.21E+03  4.36E+05
5.95E+05  1.14E+06  1.26E+06  2.65E+06  1.63E-05   48
 CROP DISPOSAL COST                      1.0000  1.85E+06  5.03E+05  5.41E+06
6.52E+06  1.04E+07  1.11E+07  1.86E+07  1.75E-05   48
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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.27E+04  9.26E+03  2.82E+04
3.55E+04  5.40E+04  6.07E+04  8.50E+04  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.47E-04  2.24E-04  3.32E-04
3.55E-04  4.14E-04  4.42E-04  6.73E-04  5.84E-06   48
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  15:24:01    PAGE  30          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.09E+01  4.71E+01  9.16E+01
1.08E+02  1.47E+02  1.68E+02  2.49E+02  1.34E-03  118
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.13E+01  1.92E+01  3.40E+01
3.85E+01  5.03E+01  5.14E+01  5.49E+01  5.71E-04   58
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.12E+03  1.01E+03  2.02E+03
2.65E+03  3.66E+03  4.08E+03  5.61E+03  1.34E-03  118

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  5.45E-05  4.98E-05  1.00E-04
1.05E-04  1.17E-04  1.22E-04  1.41E-04  5.71E-04   58
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  15:24:01   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  15:24:01    PAGE  31          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.18E+02  3.42E+02  1.13E+03
1.43E+03  2.24E+03  2.53E+03  3.60E+03  4.57E-04  138
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.91E+01  7.38E+01  1.09E+02
1.16E+02  1.34E+02  1.42E+02  2.46E+02  5.45E-06   48

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.16E+04  7.92E+03  2.66E+04
3.36E+04  5.08E+04  5.82E+04  8.07E+04  4.57E-04  138

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.93E-04  1.68E-04  3.02E-04
3.15E-04  3.46E-04  3.61E-04  6.23E-04  5.45E-06   48

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.16E+04  7.92E+03  2.66E+04
3.36E+04  5.08E+04  5.82E+04  8.07E+04  4.57E-04  138
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.15E+04  7.79E+03  2.63E+04
3.35E+04  5.08E+04  5.82E+04  8.06E+04  4.57E-04  138
 TOTAL INGESTION PATHWAYS DOSE          1.0000  7.53E+01  3.05E+01  2.15E+02
2.91E+02  4.92E+02  5.07E+02  5.32E+02  6.56E-04   61
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.11E+04  7.61E+03  2.55E+04
3.29E+04  4.84E+04  5.67E+04  7.84E+04  4.57E-04  138
 LONG-TERM RESUSPENSION DOSE            1.0000  3.14E+02  2.08E+02  7.00E+02
1.00E+03  1.41E+03  1.64E+03  2.23E+03  4.57E-04  138
 WATER INGESTION DOSE                   1.0000  1.21E+01  1.06E+01  2.06E+01
2.20E+01  2.53E+01  2.69E+01  3.20E+01  1.10E-03   80
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.12E+01  6.23E+01  1.11E+02
1.22E+02  1.53E+02  1.69E+02  2.34E+02  1.04E-05   38
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.22E-02  2.53E-02  6.43E-02
7.75E-02  1.06E-01  1.14E-01  2.07E-01  1.63E-05  119
 INGESTION OF GRAINS                    1.0000  2.38E+00  1.30E-01  9.06E+00
1.07E+01  1.29E+01  1.40E+01  2.46E+01  1.83E-05   48
 INGESTION OF LEAF VEG                  1.0000  4.31E+00  3.47E-01  1.25E+01
2.25E+01  6.72E+01  7.16E+01  7.68E+01  6.56E-04   61
 INGESTION OF ROOT CROPS                1.0000  3.17E+00  2.63E-01  1.16E+01
1.68E+01  2.15E+01  2.24E+01  3.22E+01  1.83E-05   48
 INGESTION OF FRUITS                    1.0000  4.68E+00  4.59E-01  1.77E+01
2.58E+01  3.24E+01  3.38E+01  4.74E+01  1.83E-05   48
 INGESTION OF LEGUMES                   1.0000  2.77E+00  3.78E-01  1.00E+01
1.32E+01  2.05E+01  2.12E+01  2.76E+01  1.83E-05   48
 INGESTION OF BEEF                      1.0000  2.26E+01  7.08E+00  7.07E+01
9.85E+01  1.10E+02  1.15E+02  1.62E+02  1.83E-05   48
 INGESTION OF MILK                      1.0000  1.48E+01  5.14E+00  4.39E+01
5.75E+01  7.73E+01  8.32E+01  1.26E+02  7.70E-06  146
 INGESTION OF POULTRY                   1.0000  6.94E+00  1.78E+00  1.78E+01
3.31E+01  7.78E+01  9.48E+01  1.05E+02  6.56E-04   61
 INGESTION OF OTHER MEAT CROPS          1.0000  1.42E+00  4.63E-01  3.31E+00
5.46E+00  1.10E+01  1.24E+01  1.75E+01  6.56E-04   61
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ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  6.52E+08  5.85E+08  1.03E+09
1.07E+09  1.18E+09  1.23E+09  1.81E+09  7.07E-06   38
 POP.-DEPENDENT COSTS                    1.0000  6.40E+08  5.64E+08  1.03E+09
1.07E+09  1.18E+09  1.23E+09  1.80E+09  7.07E-06   38
 FARM-DEPENDENT COSTS                    1.0000  1.18E+07  2.51E+06  3.92E+07
5.60E+07  1.03E+08  1.09E+08  1.59E+08  4.70E-05    2
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.57E+08  1.33E+08  2.95E+08
3.09E+08  3.34E+08  3.45E+08  4.42E+08  2.61E-05   25
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.92E+05  9.76E+04  4.19E+05
7.01E+05  9.66E+05  1.02E+06  1.25E+06  1.63E-05  119
 POP.-DEPENDENT INTERDICTION COST        1.0000  4.72E+08  4.14E+08  8.62E+08
1.00E+09  1.06E+09  1.08E+09  1.34E+09  7.07E-06   38
 FARM-DEPENDENT INTERDICTION COST        1.0000  1.02E+07  1.74E+06  3.26E+07
5.08E+07  1.01E+08  1.06E+08  1.46E+08  4.70E-05    2
 POP.-DEPENDENT CONDEMNATION COST        0.9295  1.10E+07  4.53E+06  1.49E+07
1.84E+07  1.16E+08 NOT-FOUND  1.25E+08  5.23E-03   31
 FARM-DEPENDENT CONDEMNATION COST        0.8160  1.92E+03  2.04E+03  2.49E+03
2.71E+03 NOT-FOUND NOT-FOUND  8.49E+03  1.14E-02    4
 EMERGENCY PHASE COST                    0.9997  7.59E+04  1.68E+04  1.78E+05
3.11E+05 NOT-FOUND NOT-FOUND  4.97E+05  1.05E-02   31
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  15:24:01    PAGE  32          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  8.96E+04  3.28E+03  3.52E+05
5.36E+05  1.19E+06  1.46E+06  1.96E+06  1.81E-03    2
 CROP DISPOSAL COST                      1.0000  1.30E+06  3.97E+05  3.44E+06
4.96E+06  6.31E+06  6.98E+06  1.14E+07  4.70E-05    2

Successful completion of MACCS2 was achieved!
This job required a total of     24.520 CPU seconds

   Input processing required      0.309 CPU seconds
         Simulation required     23.652 CPU seconds
  Output processing required      0.559 CPU seconds
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MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised 1/8/04, K. McFadden
P1:  ATMOS USER INPUT (UNIT 24) = atmbi3NS.INP


P2:  EARLY USER INPUT (UNIT 25) = earbi-noE.INP


P3: CHRONC USER INPUT (UNIT 26) = chrbiEC.INP


P4:  METEOROLOGY DATA (UNIT 28) = meti03.INP


P5:   SITE DATA INPUT (UNIT 29) = siteiEC.INP


P6:       LIST OUTPUT (UNIT 06) = conbi3NS-noE-Nmet03EC.OUT




USER INPUT IS READ FROM UNIT 24
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT

       *

    1  RIATNAM1001 'ATMOS INPUT FOR IPEC CALCULATIONS'

*******************************************************************************

       * GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/

       *

       * NUMBER OF RADIAL SPATIAL ELEMENTS

       *

    2  GENUMRAD001  15

       *

       *

       *

    3  GESPAEND001     0.32      1.61      3.22      4.83      6.44
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  4  GESPAEND002     8.05      9.66     11.27     12.87     14.48
  5  GESPAEND003    16.09     32.19     48.28     64.37     80.47

*******************************************************************************
     * NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
     *
     * Number of pseudo-stable nuclides (used to truncate the decay chains)
     *
  6  ISNUMSTB001      27
     *
     * List of pseudo-stable nuclides
     *
  7  ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
  8  ISNAMSTB002     Xe-131m  (daughter of I-131)
  9  ISNAMSTB003     Xe-133m  (daughter of I-133)
 10  ISNAMSTB004     Xe-135m  (daughter of I-135)
 11  ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
 12  ISNAMSTB006     Sm-147   (daughter of Pm-147)
 13  ISNAMSTB007     U-234    (daughter of Pu-238)
 14  ISNAMSTB008     U-235    (daughter of Pu-239)
 15  ISNAMSTB009     U-236    (daughter of Pu-240)
 16  ISNAMSTB010     U-237    (daughter of Pu-241)
 17  ISNAMSTB011     Np-237   (daughter of Am-241)
 18  ISNAMSTB012     Rb-87    (daughter of Kr-87)
 19  ISNAMSTB013     Ba-137m  (daughter of Cs-137)
 20  ISNAMSTB014     Rb-88    (daughter of Kr-88)
 21  ISNAMSTB015     Y-91m    (daughter of Sr-91)
 22  ISNAMSTB016     Zr-93    (daughter of Y-93)
 23  ISNAMSTB017     Nb-93m   (daughter of Zr-93)
 24  ISNAMSTB018     Nb-95m   (daughter of Zr-95)
 25  ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
 26  ISNAMSTB020     Nb-97m   (daughter of Zr-97)
```

```
ISNAMSTB021     Tc-99    (daughter of Mo-99)
ISNAMSTB022     Rh-103m  (daughter of Ru-103)
ISNAMSTB023     Rh-106   (daughter of Ru-106)
ISNAMSTB024    Te-131    (daughter of Te-131m)
ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026     Pr-144m  (daughter of Ce-144)
ISNAMSTB027     Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
*
ISDEPFLA001    .FALSE.   .FALSE.
ISDEPFLA002    .TRUE.    .TRUE.
ISDEPFLA003    .TRUE.    .TRUE.
ISDEPFLA004    .TRUE.    .TRUE.
ISDEPFLA005    .TRUE.    .TRUE.
ISDEPFLA006    .TRUE.    .TRUE.
ISDEPFLA007    .TRUE.    .TRUE.
ISDEPFLA008    .TRUE.    .TRUE.
ISDEPFLA009    .TRUE.    .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
```

```
*
*                NUCNAM    IGROUP
*
ISOTPGRP001      Co-58        6
ISOTPGRP002      Co-60        6
ISOTPGRP003      Kr-85        1
ISOTPGRP004      Kr-85m       1
ISOTPGRP005      Kr-87        1
ISOTPGRP006      Kr-88        1
ISOTPGRP007      Rb-86        3
ISOTPGRP008      Sr-89        5
ISOTPGRP009      Sr-90        5
ISOTPGRP010      Sr-91        5
ISOTPGRP011      Sr-92        5
ISOTPGRP012      Y-90         7
ISOTPGRP013      Y-91         7
ISOTPGRP014      Y-92         7
ISOTPGRP015      Y-93         7
ISOTPGRP016      Zr-95        7
ISOTPGRP017      Zr-97        7
ISOTPGRP018      Nb-95        7
ISOTPGRP019      Mo-99        6
ISOTPGRP020      Tc-99m       6
ISOTPGRP021      Ru-103       6
ISOTPGRP022      Ru-105       6
ISOTPGRP023      Ru-106       6
ISOTPGRP024      Rh-105       6
ISOTPGRP025      Sb-127       4
ISOTPGRP026      Sb-129       4
ISOTPGRP027      Te-127       4
ISOTPGRP028      Te-127m      4
ISOTPGRP029      Te-129       4
```

74	ISOTPGRP030	Te-129m	4
75	ISOTPGRP031	Te-131m	4
76	ISOTPGRP032	Te-132	4
77	ISOTPGRP033	I-131	2
78	ISOTPGRP034	I-132	2
79	ISOTPGRP035	I-133	2
80	ISOTPGRP036	I-134	2
81	ISOTPGRP037	I-135	2
82	ISOTPGRP038	Xe-133	1
83	ISOTPGRP039	Xe-135	1
84	ISOTPGRP040	Cs-134	3
85	ISOTPGRP041	Cs-136	3
86	ISOTPGRP042	Cs-137	3
87	ISOTPGRP043	Ba-139	9
88	ISOTPGRP044	Ba-140	9
89	ISOTPGRP045	La-140	7
90	ISOTPGRP046	La-141	7
91	ISOTPGRP047	La-142	7
92	ISOTPGRP048	Ce-141	8
93	ISOTPGRP049	Ce-143	8
94	ISOTPGRP050	Ce-144	8
95	ISOTPGRP051	Pr-143	7
96	ISOTPGRP052	Nd-147	7
97	ISOTPGRP053	Np-239	8
98	ISOTPGRP054	Pu-238	8
99	ISOTPGRP055	Pu-239	8
100	ISOTPGRP056	Pu-240	8
101	ISOTPGRP057	Pu-241	8
102	ISOTPGRP058	Am-241	7
103	ISOTPGRP059	Cm-242	7
104	ISOTPGRP060	Cm-244	7

```
*****************************************************************************
       * WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
       *
       * WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
       *
  105  WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
       *
       * WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
       *
  106  WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)

*****************************************************************************
       * DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
       *
       * NUMBER OF PARTICLE SIZE GROUPS
       *
  107  DDNPSGRP001   1
       *
       * DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
       *
  108  DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)

*****************************************************************************
       * DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/,
/DISPZ/
       *
       * # of distances in plume-size tables--which can be used as an alternative to
the power-law model:
       * (to utilize the power-law model, set NUM_DIST to zero or delete the
following data card)
       *
  109  NUM_DIST001   0
       *
       * SIGMA = A * X ** B
       *
```

```
      * Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km

      * as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).

      * P-G CLASS:          A            B            C            D            E
       F
  110  DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
    0.0722
  111  DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
    0.9031
  112  DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
    0.2
  113  DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
    0.6020
      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1

      *

  114  DPYSCALE001    1.

      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,

      *  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.

      *  (Z1 / Z0) ** 0.2,   FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27

      *

  115  DPZSCALE001    1.27

****************************************************************************** *

      * EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/

      *

      * TIME BASE FOR EXPANSION FACTOR (SECONDS)

      *

  116  PMTIMBAS001    600.   (10 MINUTES)

      *

      * BREAK POINT FOR FORMULA CHANGE (SECONDS)

      *

  117  PMBRKPNT001   3600.   (1 HOUR)

      *

      * EXPONENTIAL EXPANSION FACTOR NUMBER 1

      *

  118  PMXPFAC1001      0.2
```

```
        *
        * EXPONENTIAL EXPANSION FACTOR NUMBER 2
        *
  119   PMXPFAC2001      0.25
*******************************************************************************
        * PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
        *
        * SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT
PLUME
        * (USED BY FUNCTION CAUGHT)
        *
  120   PRSCLCRW001   1.
        *
        * SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  121   PRSCLADP001   1.
        *
        * SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
        * (USED BY FUNCTION PLMRIS)
        *
  122   PRSCLEFP001   1.
*******************************************************************************
        * RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
        ********************** RELEASE DATA BLOCK ************
        * SOURCE TERM NUMBER  1 OF 8
  123   RDATNAM2001 'NCF'
        *
        * TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
        * CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
        * PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
        *
```

```
124  RDOALARM001   1.26E+04
     *
     * NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
     *
125  RDNUMREL001          1
     *
     * SELECTION OF RISK DOMINANT PLUME
     *
126  RDMAXRIS001          1
     *
     * REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
     *
127  RDREFTIM001        0.5
     *
     * HEAT CONTENT OF THE RELEASE SEGMENTS (W)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
128  RDPLHEAT001   9.20E+05
     *
     * HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
129  RDPLHITE001        30.
     *
     * DURATION OF THE PLUME SEGMENTS (S)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
130  RDPLUDUR001   8.64E+04
     *
     * TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
```

```
*
RDPDELAY001   0.00E+00
*
* Initial value of sigma-y for each plume--Note: values required for each
plume
*
SIGYINIT001   9.9  (initial sigma-y = W/4.3 = 42.5/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each
plume
*
SIGZINIT001  31.1  (initial sigma-z = H/2.15 = 66.8/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   66.8
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
*
*               NUCNAM  CORINV (Bq)
*
RDCORINV001     Co-58    3.04E+16
```

145	RDCORINV002	Co-60	2.32E+16
146	RDCORINV003	Kr-85	3.87E+16
147	RDCORINV004	Kr-85m	8.52E+17
148	RDCORINV005	Kr-87	1.64E+18
149	RDCORINV006	Kr-88	2.30E+18
150	RDCORINV007	Rb-86	8.24E+15
151	RDCORINV008	Sr-89	3.09E+18
152	RDCORINV009	Sr-90	3.07E+17
153	RDCORINV010	Sr-91	3.87E+18
154	RDCORINV011	Sr-92	4.19E+18
155	RDCORINV012	Y-90	3.20E+17
156	RDCORINV013	Y-91	3.98E+18
157	RDCORINV014	Y-92	4.22E+18
158	RDCORINV015	Y-93	4.85E+18
159	RDCORINV016	Zr-95	5.38E+18
160	RDCORINV017	Zr-97	5.41E+18
161	RDCORINV018	Nb-95	5.45E+18
162	RDCORINV019	Mo-99	6.11E+18
163	RDCORINV020	Tc-99m	5.34E+18
164	RDCORINV021	Ru-103	4.85E+18
165	RDCORINV022	Ru-105	3.34E+18
166	RDCORINV023	Ru-106	1.69E+18
167	RDCORINV024	Rh-105	3.08E+18
168	RDCORINV025	Sb-127	3.45E+17
169	RDCORINV026	Sb-129	1.04E+18
170	RDCORINV027	Te-127	3.43E+17
171	RDCORINV028	Te-127m	4.47E+16
172	RDCORINV029	Te-129	1.02E+18
173	RDCORINV030	Te-129m	1.49E+17
174	RDCORINV031	Te-131m	4.64E+17
175	RDCORINV032	Te-132	4.54E+18

```
RDCORINV033     I-131    3.18E+18
RDCORINV034     I-132    4.64E+18
RDCORINV035     I-133    6.56E+18
RDCORINV036     I-134    7.19E+18
RDCORINV037     I-135    6.14E+18
RDCORINV038     Xe-133   6.25E+18
RDCORINV039     Xe-135   1.67E+18
RDCORINV040     Cs-134   7.16E+17
RDCORINV041     Cs-136   2.08E+17
RDCORINV042     Cs-137   4.15E+17
RDCORINV043     Ba-139   5.86E+18
RDCORINV044     Ba-140   5.58E+18
RDCORINV045     La-140   5.76E+18
RDCORINV046     La-141   5.34E+18
RDCORINV047     La-142   5.17E+18
RDCORINV048     Ce-141   5.31E+18
RDCORINV049     Ce-143   4.99E+18
RDCORINV050     Ce-144   4.19E+18
RDCORINV051     Pr-143   4.78E+18
RDCORINV052     Nd-147   2.12E+18
RDCORINV053     Np-239   6.53E+19
RDCORINV054     Pu-238   1.43E+16
RDCORINV055     Pu-239   1.22E+15
RDCORINV056     Pu-240   1.82E+15
RDCORINV057     Pu-241   4.08E+17
RDCORINV058     Am-241   5.03E+14
RDCORINV059     Cm-242   1.21E+17
RDCORINV060     Cm-244   1.29E+16
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*
```

```
  204  RDCORSCA001   1.0
       *
  205  RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
       *
       * RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
       *
       *  ISOTOPE GROUPS:
       *
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
  206  RDRELFRC001 9.6E-05 6.5E-06 2.7E-06 2.1E-06 6.1E-08 5.2E-07 3.3E-09 2.7E-08
1.8E-07
       *

*******************************************************************************
       * OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
       *
       * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
       *
  207  OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
       *
  208  OCIDEBUG001  0
       *
       * NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
       *
       *OCNUCOUT001  Cs-137
       *
       *              NUM0
  209  TYPE0NUMBER      0
       *
       *              INDREL   INDRAD
       *TYPE0OUT001      1        9
       *TYPE0OUT002      1       10         CCDF
```

```
*****************************************************************************
      * METEOROLOGICAL SAMPLING DATA BLOCK
      *
      * METEOROLOGICAL SAMPLING OPTION CODE:
      *
      * METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
      *          2, WEATHER CATEGORY BIN SAMPLING,
      *          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
      *          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
      *          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
      *
  210 M1METCOD001  2
      *
      * LAST SPATIAL INTERVAL FOR MEASURED WEATHER
      *
  211 M2LIMSPA001  15
      *
      * BOUNDARY WEATHER MIXING LAYER HEIGHT
      *
  212 M2BNDMXH001  1000.  (METERS)
      *
      * BOUNDARY WEATHER STABILITY CLASS INDEX
      *
  213 M2IBDSTB001  4      (D-STABILITY)
      *
      * BOUNDARY WEATHER RAIN RATE
      *
  214 M2BNDRAN001  0.     (MM/HR)
      *
      * BOUNDARY WEATHER WIND SPEED
      *
```

```
215  M2BNDWND001  5.     (M/S)
     *
     * NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
     *
216  M4NRNINT001  6
     *
     * ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
     *
     * NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
     *       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
     *
     *             2.0    4.0      7     10.0     20.0   40.0   MILES
     *
217  M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
     *
     * NUMBER OF RAIN INTENSITIY BREAKPOINTS
     *
218  M4NRINTN001   3
     *
     * RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
     *
219  M4RNRATE001   2.  4.  6.
     *
     * NUMBER OF SAMPLES PER BIN
     *
220  M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
     *
     * INITIAL SEED FOR RANDOM NUMBER GENERATOR
     *
221  M4IRSEED001   79
     .
```

```
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  449
NUMBER OF BLANK OR COMMENT RECORDS READ         =  227
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =  221
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =  221
*******************************************************************************
****************



Decay Chain #  Ba-139

Decay Chain #  Ba-140   La-140
Fraction of Ba-140  going to La-140  in this chain = 1.000000

Decay Chain #  Ce-143   Pr-143
Fraction of Ce-143  going to Pr-143  in this chain = 1.000000

Decay Chain #  Ce-144

Decay Chain #  Cm-242   Pu-238
Fraction of Cm-242  going to Pu-238  in this chain = 1.000000

Decay Chain #  Cm-244   Pu-240
Fraction of Cm-244  going to Pu-240  in this chain = 1.000000

Decay Chain #  Co-58

Decay Chain #  Co-60

Decay Chain #  Cs-134

Decay Chain #  Cs-136

Decay Chain #  Cs-137

Decay Chain #  I-133    Xe-133
Fraction of I-133   going to Xe-133  in this chain = 0.971000

Decay Chain #  I-134

Decay Chain #  I-135    Xe-135
Fraction of I-135   going to Xe-135  in this chain = 0.846000

Decay Chain #  Kr-85m   Kr-85
Fraction of Kr-85m  going to Kr-85   in this chain = 0.211000

Decay Chain #  Kr-87

Decay Chain #  Kr-88

Decay Chain #  La-141   Ce-141
Fraction of La-141  going to Ce-141  in this chain = 1.000000

Decay Chain #  La-142

Decay Chain #  Mo-99    Tc-99m
```

```
Fraction of Mo-99   going to Tc-99m  in this chain = 0.876000

Decay Chain #  Nd-147

Decay Chain #  Np-239   Pu-239
Fraction of Np-239  going to Pu-239  in this chain = 1.000000

Decay Chain #  Pu-241   Am-241
Fraction of Pu-241  going to Am-241  in this chain = 1.000000

Decay Chain #  Rb-86

Decay Chain #  Ru-103

Decay Chain #  Ru-105   Rh-105
Fraction of Ru-105  going to Rh-105  in this chain = 1.000000

Decay Chain #  Ru-106

Decay Chain #  Sb-127   Te-127
Fraction of Sb-127  going to Te-127  in this chain = 0.824000

Decay Chain #  Sb-127   Te-127m  Te-127
Fraction of Sb-127  going to Te-127m in this chain = 0.176000
Fraction of Sb-127  going to Te-127  in this chain = 0.171776
Fraction of Te-127m going to Te-127  in this chain = 0.976000

Decay Chain #  Sb-129   Te-129
Fraction of Sb-129  going to Te-129  in this chain = 0.775000

Decay Chain #  Sb-129   Te-129m  Te-129
Fraction of Sb-129  going to Te-129m in this chain = 0.225000
Fraction of Sb-129  going to Te-129  in this chain = 0.146250
Fraction of Te-129m going to Te-129  in this chain = 0.650000

Decay Chain #  Sr-89

Decay Chain #  Sr-90    Y-90
Fraction of Sr-90   going to Y-90    in this chain = 1.000000

Decay Chain #  Sr-91    Y-91
Fraction of Sr-91   going to Y-91    in this chain = 0.422000

Decay Chain #  Sr-92    Y-92
Fraction of Sr-92   going to Y-92    in this chain = 1.000000

Decay Chain #  Te-131m  I-131
Fraction of Te-131m going to I-131   in this chain = 0.778000

Decay Chain #  Te-132   I-132
Fraction of Te-132  going to I-132   in this chain = 1.000000

Decay Chain #  Y-93

Decay Chain #  Zr-95    Nb-95
Fraction of Zr-95   going to Nb-95   in this chain = 0.993000

Decay Chain #  Zr-97


RELEASED INVENTORY OF ALL PLUMES
Co-58      1.57E+10
Co-60      1.21E+10
```

Kr-85	3.72E+12
Kr-85m	1.28E+13
Kr-87	2.27E+11
Kr-88	1.18E+13
Rb-86	2.18E+10
Sr-89	1.87E+11
Sr-90	1.87E+10
Sr-91	9.84E+10
Sr-92	1.19E+10
Y-90	3.21E+09
Y-91	1.34E+10
Y-92	4.22E+10
Y-93	7.02E+09
Zr-95	1.77E+10
Zr-97	1.09E+10
Nb-95	1.80E+10
Mo-99	2.80E+12
Tc-99m	2.63E+12
Ru-103	2.50E+12
Ru-105	2.67E+11
Ru-106	8.78E+11
Rh-105	1.42E+12
Sb-127	6.62E+11
Sb-129	3.18E+11
Te-127	6.84E+11
Te-127m	9.40E+10
Te-129	5.40E+11
Te-129m	3.12E+11
Te-131m	7.38E+11
Te-132	8.57E+12
I-131	1.98E+13
I-132	9.38E+12
I-133	2.86E+13
I-134	3.54E+09
I-135	1.13E+13
Xe-133	5.64E+14
Xe-135	7.47E+13
Cs-134	1.93E+12
Cs-136	5.47E+11
Cs-137	1.12E+12
Ba-139	2.53E+09
Ba-140	9.77E+11
La-140	2.00E+11
La-141	2.12E+09
La-142	7.74E+07
Ce-141	1.42E+11
Ce-143	1.05E+11
Ce-144	1.13E+11
Pr-143	1.84E+10
Nd-147	6.78E+09
Np-239	1.52E+12
Pu-238	3.86E+08
Pu-239	3.30E+07
Pu-240	4.91E+07
Pu-241	1.10E+10
Am-241	1.68E+06
Cm-242	3.98E+08
Cm-244	4.26E+07

READING FROM A WEATHER FILE WITH THE FOLLOWING HEADER:
INDIAN POINT ENERGY CENTER METEORLOGICAL DATAFILE
Input file for the MACCS2 model using the year 2003
METEOROLOGICAL DATA FILE CONTAINS 595 HOURS OF OBSERVED RAIN DATA.

```
            ACCUMULATED RAIN MEASUREMENTS TOTALED  45.55 INCHES FOR THE YEAR.
            CONSTANT LID HEIGHTS (M) FOR 4 SEASONS =    1100   1200   1300   1200
            NON-ZERO WINDSPEEDS LESS THAN 0.5 M/S ARE SET TO 0.5 M/S
NUMTRI=         155


                                  * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND, 1 (0-1), 2 (1-2), 3
(2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                        WIND DIRECTION
  METBIN    1     2     3     4     5     6     7     8     9    10    11    12
13    14    15    16  TOTAL   PER CENT

 1 B   3  0.238 0.039 0.044 0.094 0.050 0.061 0.072 0.072 0.066 0.050 0.006 0.000
0.017 0.028 0.000 0.166  181     2.0662
 2 B   4  0.326 0.022 0.000 0.000 0.000 0.101 0.191 0.146 0.011 0.022 0.000 0.000
0.000 0.000 0.000 0.180   89     1.0160
 3 D   1  0.094 0.117 0.054 0.049 0.040 0.027 0.040 0.022 0.031 0.036 0.036 0.045
0.081 0.103 0.081 0.143  223     2.5457
 4 D   2  0.153 0.091 0.069 0.062 0.052 0.043 0.041 0.048 0.100 0.107 0.070 0.031
0.031 0.021 0.024 0.058 1436    16.3927
 5 D   3  0.122 0.058 0.026 0.041 0.053 0.077 0.100 0.068 0.182 0.152 0.043 0.023
0.009 0.001 0.004 0.039 1403    16.0160
 6 D   4  0.065 0.054 0.013 0.026 0.046 0.110 0.200 0.077 0.212 0.161 0.021 0.003
0.000 0.000 0.000 0.012 1068    12.1918
 7 D   5  0.055 0.000 0.000 0.044 0.077 0.099 0.275 0.044 0.308 0.088 0.000 0.000
0.000 0.000 0.000 0.011   91     1.0388
 9 E   1  0.113 0.088 0.060 0.063 0.032 0.033 0.023 0.037 0.069 0.102 0.060 0.040
0.058 0.060 0.072 0.090  568     6.4840
10 E   2  0.129 0.094 0.079 0.036 0.016 0.015 0.009 0.009 0.043 0.209 0.190 0.054
0.019 0.015 0.012 0.073  822     9.3836
11 E   3  0.192 0.079 0.017 0.017 0.031 0.021 0.045 0.031 0.072 0.305 0.144 0.000
0.000 0.000 0.000 0.048  292     3.3333
12 E   4  0.179 0.054 0.036 0.000 0.018 0.018 0.054 0.107 0.143 0.304 0.018 0.000
0.000 0.000 0.000 0.071   56     0.6393
13 F   1  0.052 0.019 0.033 0.038 0.047 0.043 0.057 0.066 0.242 0.199 0.095 0.043
0.019 0.019 0.014 0.014  211     2.4087
14 F   2  0.058 0.029 0.022 0.029 0.011 0.018 0.011 0.018 0.097 0.412 0.191 0.043
0.011 0.004 0.011 0.036  277     3.1621
15 F   3  0.058 0.008 0.008 0.008 0.025 0.091 0.124 0.041 0.025 0.413 0.190 0.000
0.000 0.000 0.000 0.008  121     1.3813
16 F   4  0.023 0.000 0.000 0.068 0.000 0.159 0.045 0.114 0.318 0.273 0.000 0.000
0.000 0.000 0.000 0.000   44     0.5023
17 R1  3  0.138 0.045 0.009 0.011 0.005 0.020 0.011 0.018 0.144 0.312 0.056 0.041
0.029 0.025 0.050 0.086  443     5.0571
18 R1  6  0.120 0.048 0.036 0.036 0.012 0.024 0.000 0.060 0.060 0.048 0.145 0.084
0.012 0.036 0.072 0.205   83     0.9475
19 R1 11  0.159 0.079 0.024 0.024 0.024 0.024 0.008 0.024 0.087 0.214 0.079 0.008
0.024 0.056 0.048 0.119  126     1.4384
20 R1 16  0.182 0.061 0.030 0.020 0.020 0.020 0.020 0.020 0.121 0.212 0.081 0.020
0.061 0.000 0.000 0.131   99     1.1301
21 R1 32  0.214 0.058 0.024 0.017 0.010 0.014 0.017 0.014 0.122 0.210 0.078 0.037
0.034 0.010 0.037 0.105  295     3.3676
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22 R1 65  0.214 0.076 0.030 0.019 0.006 0.024 0.026 0.017 0.076 0.203 0.069 0.032
0.028 0.009 0.032 0.136  462     5.2740
23 R2  3  0.096 0.029 0.000 0.000 0.010 0.029 0.000 0.029 0.125 0.317 0.019 0.058
0.038 0.038 0.077 0.135  104     1.1872
24 R2  6  0.125 0.125 0.250 0.000 0.000 0.000 0.000 0.000 0.125 0.125 0.125 0.000
0.000 0.125 0.000 0.000    8     0.0913
25 R2 11  0.333 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.222 0.222 0.000
0.000 0.000 0.111 0.111    9     0.1027
26 R2 16  0.083 0.167 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.250 0.000 0.000
0.000 0.000 0.000 0.500   12     0.1370
27 R2 32  0.350 0.050 0.000 0.050 0.000 0.000 0.000 0.000 0.050 0.050 0.100 0.000
0.000 0.000 0.000 0.350   20     0.2283
28 R2 65  0.265 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.118 0.059 0.029 0.059
0.029 0.029 0.000 0.353   34     0.3881
29 R3  3  0.068 0.045 0.045 0.000 0.023 0.023 0.000 0.045 0.114 0.386 0.045 0.023
0.023 0.023 0.045 0.091   44     0.5023
30 R3  6  0.333 0.000 0.000 0.000 0.000 0.167 0.000 0.167 0.000 0.167 0.000 0.000
0.000 0.000 0.000 0.167    6     0.0685
31 R3 11  0.667 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.333 0.000 0.000
0.000 0.000 0.000 0.000    3     0.0342
32 R3 16  0.200 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.400 0.200 0.000
0.000 0.200 0.000 0.000    5     0.0571
33 R3 32  0.214 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.071 0.143 0.357 0.143
0.071 0.000 0.000 0.000   14     0.1598
34 R3 65  0.083 0.042 0.000 0.000 0.042 0.000 0.000 0.000 0.083 0.083 0.333 0.208
0.042 0.000 0.000 0.083   24     0.2740
35 R4  3  0.306 0.083 0.083 0.000 0.000 0.000 0.000 0.000 0.083 0.194 0.028 0.000
0.083 0.028 0.056 0.056   36     0.4110
36 R4  6  0.000 0.000 0.000 0.000 0.000 0.143 0.000 0.143 0.000 0.143 0.000 0.143
0.000 0.143 0.000 0.286    7     0.0799
37 R4 11  0.250 0.125 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.125
0.000 0.000 0.250 0.250    8     0.0913
38 R4 16  0.333 0.167 0.167 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.333    6     0.0685
39 R4 32  0.364 0.000 0.000 0.091 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.545   11     0.1256
40 R4 65  0.368 0.211 0.105 0.000 0.000 0.000 0.000 0.000 0.000 0.053 0.000 0.000
0.000 0.000 0.000 0.263   19     0.2169
41 ALL    0.133 0.067 0.038 0.037 0.034 0.049 0.065 0.045 0.121 0.176 0.075 0.029
0.022 0.017 0.022 0.070 8760
```

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                              * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND (M/S), 1 (0-1), 2 (1-2),
3 (2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                WIND DIRECTION
  METBIN    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15
 16 TOTAL   PER CENT

 1 B   3    43    7    8   17    9   11   13   13   12    9    1    0    3    5    0
  30  181     2.0662
 2 B   4    29    2    0    0    0    9   17   13    1    2    0    0    0    0    0
  16   89     1.0160
 3 D   1    21   26   12   11    9    6    9    5    7    8    8   10   18   23   18
```

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  32  223     2.5457
 4 D   2   219  130   99   89   75   62   59   69  143  154  100   45   44   30   35
  83 1436    16.3927
 5 D   3   171   81   37   57   75  108  141   95  256  213   61   32   13    2    6
  55 1403    16.0160
 6 D   4    69   58   14   28   49  118  214   82  226  172   22    3    0    0    0
  13 1068    12.1918
 7 D   5     5    0    0    4    7    9   25    4   28    8    0    0    0    0    0
   1   91     1.0388
 8 D   6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
 9 E   1    64   50   34   36   18   19   13   21   39   58   34   23   33   34   41
  51  568     6.4840
10 E   2   106   77   65   30   13   12    7    7   35  172  156   44   16   12   10
  60  822     9.3836
11 E   3    56   23    5    5    9    6   13    9   21   89   42    0    0    0    0
  14  292     3.3333
12 E   4    10    3    2    0    1    1    3    6    8   17    1    0    0    0    0
   4   56     0.6393
13 F   1    11    4    7    8   10    9   12   14   51   42   20    9    4    4    3
   3  211     2.4087
14 F   2    16    8    6    8    3    5    3    5   27  114   53   12    3    1    3
  10  277     3.1621
15 F   3     7    1    1    1    3   11   15    5    3   50   23    0    0    0    0
   1  121     1.3813
16 F   4     1    0    0    3    0    7    2    5   14   12    0    0    0    0    0
   0   44     0.5023
17 R1  3    61   20    4    5    2    9    5    8   64  138   25   18   13   11   22
  38  443     5.0571
18 R1  6    10    4    3    3    1    2    0    5    5    4   12    7    1    3    6
  17   83     0.9475
19 R1 11    20   10    3    3    3    3    1    3   11   27   10    1    3    7    6
  15  126     1.4384
20 R1 16    18    6    3    2    2    2    2    2   12   21    8    2    6    0    0
  13   99     1.1301
21 R1 32    63   17    7    5    3    4    5    4   36   62   23   11   10    3   11
  31  295     3.3676
22 R1 65    99   35   14    9    3   11   12    8   35   94   32   15   13    4   15
  63  462     5.2740
23 R2  3    10    3    0    0    1    3    0    3   13   33    2    6    4    4    8
  14  104     1.1872
24 R2  6     1    1    2    0    0    0    0    0    1    1    1    0    0    1    0
   0    8     0.0913
25 R2 11     3    0    0    0    0    0    0    0    0    2    2    0    0    0    1
   1    9     0.1027
26 R2 16     1    2    0    0    0    0    0    0    0    3    0    0    0    0    0
   6   12     0.1370
27 R2 32     7    1    0    1    0    0    0    0    1    1    2    0    0    0    0
   7   20     0.2283
28 R2 65     9    2    0    0    0    0    0    0    4    2    1    2    1    1    0
  12   34     0.3881
29 R3  3     3    2    2    0    1    1    0    2    5   17    2    1    1    1    2
   4   44     0.5023
30 R3  6     2    0    0    0    0    1    0    1    0    1    0    0    0    0    0
   1    6     0.0685
31 R3 11     2    0    0    0    0    0    0    0    0    1    0    0    0    0    0
   0    3     0.0342
32 R3 16     1    0    0    0    0    0    0    0    0    2    1    0    0    1    0
   0    5     0.0571
33 R3 32     3    0    0    0    0    0    0    0    1    2    5    2    1    0    0
   0   14     0.1598
34 R3 65     2    1    0    0    1    0    0    0    2    2    8    5    1    0    0
   2   24     0.2740
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35 R4  3    11    3    3    0    0    0    0    0    3    7    1    0    3    1    2
   2   36     0.4110
36 R4  6     0    0    0    0    0    1    0    1    0    1    0    1    0    1    0
   2    7     0.0799
37 R4 11     2    1    0    0    0    0    0    0    0    0    0    1    0    0    2
   2    8     0.0913
38 R4 16     2    1    1    0    0    0    0    0    0    0    0    0    0    0    0
   2    6     0.0685
39 R4 32     4    0    0    1    0    0    0    0    0    0    0    0    0    0    0
   6   11     0.1256
40 R4 65     7    4    2    0    0    0    0    0    0    1    0    0    0    0    0
   5   19     0.2169


              * * * * SUMMARIES * * * *

   R      341  113   44   29   17   37   25   37  193  422  135   72   57   38   75
243 1878   21.4384
   B       72    9    8   17    9   20   30   26   13   11    1    0    3    5    0
 46  270    3.0822
   D      485  295  162  189  215  303  448  255  660  555  191   90   75   55   59
184 4221   48.1849
   E      236  153  106   71   41   38   36   43  103  336  233   67   49   46   51
129 1738   19.8402
   F       35   13   14   20   16   32   32   29   95  218   96   21    7    5    6
 14  653    7.4543
      1    96   80   53   55   37   34   34   40   97  108   62   42   55   61   62
 86 1002   11.4384
      2   346  216  174  135   97   83   72   83  209  444  309  101   63   44   48
161 2585   29.5091
      3   272  111   47   72   90  132  179  120  288  357  127   32   16    6    6
 92 1947   22.2260
      4   109   63   16   31   50  135  236  106  241  203   23    3    0    0    0
 33 1249   14.2580
      5     5    0    0    4    7    9   25    4   31    8    0    0    0    0    0
  1   94    1.0731
      6     0    0    0    0    0    0    0    0    5    0    0    0    0    0    0
  0    5    0.0571

                * * * * * BIN WINDROSE SUMMARY * * * * *

  BIN                            DIRECTION
                                     TOTAL
          1      2      3      4      5      6      7      8      9     10     11
 12     13     14     15     16
    1  0.238  0.039  0.044  0.094  0.050  0.061  0.072  0.072  0.066  0.050  0.006
0.000  0.017  0.028  0.000  0.166  1.000000
    2  0.326  0.022  0.000  0.000  0.000  0.101  0.191  0.146  0.011  0.022  0.000
0.000  0.000  0.000  0.000  0.180  1.000000
    3  0.094  0.117  0.054  0.049  0.040  0.027  0.040  0.022  0.031  0.036  0.036
0.045  0.081  0.103  0.081  0.143  1.000000
    4  0.153  0.091  0.069  0.062  0.052  0.043  0.041  0.048  0.100  0.107  0.070
0.031  0.031  0.021  0.024  0.058  1.000000
    5  0.122  0.058  0.026  0.041  0.053  0.077  0.100  0.068  0.182  0.152  0.043
0.023  0.009  0.001  0.004  0.039  1.000000
    6  0.065  0.054  0.013  0.026  0.046  0.110  0.200  0.077  0.212  0.161  0.021
0.003  0.000  0.000  0.000  0.012  1.000000
    7  0.055  0.000  0.000  0.044  0.077  0.099  0.275  0.044  0.308  0.088  0.000
0.000  0.000  0.000  0.000  0.011  1.000000
    8  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000000
    9  0.113  0.088  0.060  0.063  0.032  0.033  0.023  0.037  0.069  0.102  0.060
0.040  0.058  0.060  0.072  0.090  1.000000
```

```
   10  0.129  0.094  0.079  0.036  0.016  0.015  0.009  0.009  0.043  0.209  0.190
0.054  0.019  0.015  0.012  0.073  1.000000
   11  0.192  0.079  0.017  0.017  0.031  0.021  0.045  0.031  0.072  0.305  0.144
0.000  0.000  0.000  0.000  0.048  1.000000
   12  0.179  0.054  0.036  0.000  0.018  0.018  0.054  0.107  0.143  0.304  0.018
0.000  0.000  0.000  0.000  0.071  1.000000
   13  0.052  0.019  0.033  0.038  0.047  0.043  0.057  0.066  0.242  0.199  0.095
0.043  0.019  0.019  0.014  0.014  1.000000
   14  0.058  0.029  0.022  0.029  0.011  0.018  0.011  0.018  0.097  0.412  0.191
0.043  0.011  0.004  0.011  0.036  1.000000
   15  0.058  0.008  0.008  0.008  0.025  0.091  0.124  0.041  0.025  0.413  0.190
0.000  0.000  0.000  0.000  0.008  1.000000
   16  0.023  0.000  0.000  0.068  0.000  0.159  0.045  0.114  0.318  0.273  0.000
0.000  0.000  0.000  0.000  0.000  1.000000
   17  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   18  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   19  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   20  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   21  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   22  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   23  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   24  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   25  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   26  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   27  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   28  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   29  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   30  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   31  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   32  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   33  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   34  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   35  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   36  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   37  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   38  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   39  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   40  0.182  0.060  0.023  0.015  0.009  0.020  0.013  0.020  0.103  0.225  0.072
0.038  0.030  0.020  0.040  0.129  1.000000
   41  0.133  0.067  0.038  0.037  0.034  0.049  0.065  0.045  0.121  0.176  0.075
```

```
0.029  0.022  0.017  0.022  0.070  1.000000


******** BEGINNING OF CHANGE CASE   1 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  2 OF 8

       *

  222  RDATNAM2001 'EARLY HIGH'

********   RECORD NUMBER   222 REPLACES RECORD NUMBER   123   ********
       *

  223  RDOALARM001   1.27E+04

********   RECORD NUMBER   223 REPLACES RECORD NUMBER   124   ********
  224  RDNUMREL001   1

********   RECORD NUMBER   224 REPLACES RECORD NUMBER   125   ********
  225  RDMAXRIS001   1

********   RECORD NUMBER   225 REPLACES RECORD NUMBER   126   ********
  226  RDREFTIM001   0.0

********   RECORD NUMBER   226 REPLACES RECORD NUMBER   127   ********
  227  RDPLHEAT001   1.03E+06

********   RECORD NUMBER   227 REPLACES RECORD NUMBER   128   ********
  228  RDPLHITE001   30.

********   RECORD NUMBER   228 REPLACES RECORD NUMBER   129   ********
  229  RDPLUDUR001   7.92E+04

********   RECORD NUMBER   229 REPLACES RECORD NUMBER   130   ********
  230  RDPDELAY001   1.20E+04

********   RECORD NUMBER   230 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  231  RDRELFRC001 6.4E-01 1.6E-01 1.5E-01 1.5E-01 1.6E-02 6.5E-02 5.6E-04 3.0E-03
3.1E-02
********   RECORD NUMBER   231 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   1 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   1
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.97E+15
Co-60      1.51E+15
Kr-85      2.48E+16
```

Kr-85m	3.26E+17
Kr-87	1.71E+17
Kr-88	6.53E+17
Rb-86	1.23E+15
Sr-89	4.93E+16
Sr-90	4.91E+15
Sr-91	4.86E+16
Sr-92	2.86E+16
Y-90	3.47E+14
Y-91	2.26E+15
Y-92	2.19E+16
Y-93	2.16E+15
Zr-95	3.01E+15
Zr-97	2.64E+15
Nb-95	3.05E+15
Mo-99	3.83E+17
Tc-99m	3.45E+17
Ru-103	3.14E+17
Ru-105	1.29E+17
Ru-106	1.10E+17
Rh-105	1.98E+17
Sb-127	5.05E+16
Sb-129	9.14E+16
Te-127	5.08E+16
Te-127m	6.71E+15
Te-129	1.08E+17
Te-129m	2.24E+16
Te-131m	6.44E+16
Te-132	6.61E+17
I-131	5.03E+17
I-132	6.96E+17
I-133	9.39E+17
I-134	8.25E+16
I-135	6.93E+17
Xe-133	3.94E+18
Xe-135	9.85E+17
Cs-134	1.07E+17
Cs-136	3.10E+16
Cs-137	6.22E+16
Ba-139	3.40E+16
Ba-140	1.72E+17
La-140	1.27E+16
La-141	1.66E+15
La-142	6.47E+14
Ce-141	1.59E+16
Ce-143	1.40E+16
Ce-144	1.26E+16
Pr-143	2.76E+15
Nd-147	1.18E+15
Np-239	1.88E+17
Pu-238	4.29E+13
Pu-239	3.66E+12
Pu-240	5.46E+12
Pu-241	1.22E+15
Am-241	2.82E+11
Cm-242	6.77E+13
Cm-244	7.22E+12

******** BEGINNING OF CHANGE CASE 2 USER INPUT ********
********** RELEASE DATA BLOCK **********

* SOURCE TERM NUMBER 3 OF 8

```
       *

  232  RDATNAM2001 'EARLY MEDIUM'

********   RECORD NUMBER   232 REPLACES RECORD NUMBER   123   ********
       *

  233  RDOALARM001   9.18E+03

********   RECORD NUMBER   233 REPLACES RECORD NUMBER   124   ********
  234  RDNUMREL001   1

********   RECORD NUMBER   234 REPLACES RECORD NUMBER   125   ********
  235  RDMAXRIS001   1

********   RECORD NUMBER   235 REPLACES RECORD NUMBER   126   ********
  236  RDREFTIM001   0.0

********   RECORD NUMBER   236 REPLACES RECORD NUMBER   127   ********
  237  RDPLHEAT001   1.07E+06

********   RECORD NUMBER   237 REPLACES RECORD NUMBER   128   ********
  238  RDPLHITE001   30.

********   RECORD NUMBER   238 REPLACES RECORD NUMBER   129   ********
  239  RDPLUDUR001   8.21E+04

********   RECORD NUMBER   239 REPLACES RECORD NUMBER   130   ********
  240  RDPDELAY001   9.22E+03

********   RECORD NUMBER   240 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  241  RDRELFRC001 9.9E-01 1.3E-02 1.2E-02 2.7E-02 8.5E-04 3.0E-02 5.2E-05 3.1E-04
2.0E-02
********   RECORD NUMBER   241 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   2 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   2
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      9.11E+14
Co-60      6.96E+14
Kr-85      3.83E+16
Kr-85m     5.68E+17
Kr-87      4.02E+17
Kr-88      1.22E+18
Rb-86      9.85E+13
Sr-89      2.62E+15
Sr-90      2.61E+14
Sr-91      2.73E+15
```

```
Sr-92      1.85E+15
Y-90       2.33E+13
Y-91       2.08E+14
Y-92       1.14E+15
Y-93       2.12E+14
Zr-95      2.79E+14
Zr-97      2.53E+14
Nb-95      2.83E+14
Mo-99      1.78E+17
Tc-99m     1.60E+17
Ru-103     1.45E+17
Ru-105     6.72E+16
Ru-106     5.07E+16
Rh-105     9.19E+16
Sb-127     9.14E+15
Sb-129     1.86E+16
Te-127     9.18E+15
Te-127m    1.21E+15
Te-129     2.13E+16
Te-129m    4.03E+15
Te-131m    1.18E+16
Te-132     1.20E+17
I-131      4.10E+16
I-132      9.30E+16
I-133      7.83E+16
I-134      1.23E+16
I-135      6.10E+16
Xe-133     6.10E+18
Xe-135     1.37E+18
Cs-134     8.59E+15
Cs-136     2.48E+15
Cs-137     4.98E+15
Ba-139     3.23E+16
Ba-140     1.11E+17
La-140     5.09E+15
La-141     1.77E+14
La-142     8.50E+13
Ce-141     1.64E+15
Ce-143     1.47E+15
Ce-144     1.30E+15
Pr-143     2.55E+14
Nd-147     1.09E+14
Np-239     1.96E+16
Pu-238     4.43E+12
Pu-239     3.78E+11
Pu-240     5.64E+11
Pu-241     1.26E+14
Am-241     2.62E+10
Cm-242     6.29E+12
Cm-244     6.71E+11


******** BEGINNING OF CHANGE CASE   3 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  4 OF 8

       *

  242  RDATNAM2001 'EARLY LOW'

********   RECORD NUMBER   242 REPLACES RECORD NUMBER   123   ********
       *
```

```
  243  RDOALARM001   9.31E+03

********   RECORD NUMBER   243 REPLACES RECORD NUMBER   124   ********
  244  RDNUMREL001   1

********   RECORD NUMBER   244 REPLACES RECORD NUMBER   125   ********
  245  RDMAXRIS001   1

********   RECORD NUMBER   245 REPLACES RECORD NUMBER   126   ********
  246  RDREFTIM001   0.0

********   RECORD NUMBER   246 REPLACES RECORD NUMBER   127   ********
  247  RDPLHEAT001   1.11E+06

********   RECORD NUMBER   247 REPLACES RECORD NUMBER   128   ********
  248  RDPLHITE001   30.

********   RECORD NUMBER   248 REPLACES RECORD NUMBER   129   ********
  249  RDPLUDUR001   8.49E+04

********   RECORD NUMBER   249 REPLACES RECORD NUMBER   130   ********
  250  RDPDELAY001   9.90E+03

********   RECORD NUMBER   250 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  251  RDRELFRC001 2.4E-01 2.0E-03 1.6E-03 2.9E-03 9.0E-05 3.0E-03 5.2E-06 3.1E-05
1.9E-03
********   RECORD NUMBER   251 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   3 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   3
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      9.11E+13
Co-60      6.96E+13
Kr-85      9.29E+15
Kr-85m     1.34E+17
Kr-87      8.79E+16
Kr-88      2.82E+17
Rb-86      1.31E+13
Sr-89      2.78E+14
Sr-90      2.76E+13
Sr-91      2.85E+14
Sr-92      1.87E+14
Y-90       2.43E+12
Y-91       2.08E+13
Y-92       1.22E+14
Y-93       2.09E+13
Zr-95      2.79E+13
Zr-97      2.51E+13
```

```
Nb-95      2.83E+13
Mo-99      1.78E+16
Tc-99m     1.60E+16
Ru-103     1.45E+16
Ru-105     6.52E+15
Ru-106     5.07E+15
Rh-105     9.18E+15
Sb-127     9.80E+14
Sb-129     1.94E+15
Te-127     9.85E+14
Te-127m    1.30E+14
Te-129     2.24E+15
Te-129m    4.32E+14
Te-131m    1.26E+15
Te-132     1.28E+16
I-131      6.31E+15
I-132      1.14E+16
I-133      1.20E+16
I-134      1.63E+15
I-135      9.20E+15
Xe-133     1.48E+18
Xe-135     3.27E+17
Cs-134     1.15E+15
Cs-136     3.31E+14
Cs-137     6.64E+14
Ba-139     2.79E+15
Ba-140     1.05E+16
La-140     5.17E+14
La-141     1.71E+13
La-142     7.81E+12
Ce-141     1.64E+14
Ce-143     1.46E+14
Ce-144     1.30E+14
Pr-143     2.56E+13
Nd-147     1.09E+13
Np-239     1.96E+15
Pu-238     4.43E+11
Pu-239     3.78E+10
Pu-240     5.64E+10
Pu-241     1.26E+13
Am-241     2.62E+09
Cm-242     6.29E+11
Cm-244     6.71E+10


******** BEGINNING OF CHANGE CASE   4 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  5 OF 8

       *

  252  RDATNAM2001 'LATE HIGH'

********   RECORD NUMBER   252 REPLACES RECORD NUMBER   123   ********
       *

  253  RDOALARM001   5.58E+03

********   RECORD NUMBER   253 REPLACES RECORD NUMBER   124   ********
  254  RDNUMREL001   1

********   RECORD NUMBER   254 REPLACES RECORD NUMBER   125   ********
```

```
  255  RDMAXRIS001   1

********   RECORD NUMBER   255 REPLACES RECORD NUMBER   126   ********
  256  RDREFTIM001   0.5

********   RECORD NUMBER   256 REPLACES RECORD NUMBER   127   ********
  257  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   257 REPLACES RECORD NUMBER   128   ********
  258  RDPLHITE001   30.

********   RECORD NUMBER   258 REPLACES RECORD NUMBER   129   ********
  259  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   259 REPLACES RECORD NUMBER   130   ********
  260  RDPDELAY001   7.38E+04

********   RECORD NUMBER   260 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  261  RDRELFRC001 9.9E-01 1.2E-01 2.3E-02 4.8E-03 2.1E-04 3.7E-03 1.3E-05 1.2E-04
9.1E-04
********   RECORD NUMBER   261 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   4 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   4
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.11E+14
Co-60      8.58E+13
Kr-85      3.83E+16
Kr-85m     5.52E+15
Kr-87      3.29E+10
Kr-88      8.17E+14
Rb-86      1.80E+14
Sr-89      6.37E+14
Sr-90      6.45E+13
Sr-91      7.59E+13
Sr-92      2.16E+11
Y-90       2.21E+13
Y-91       5.30E+13
Y-92       4.34E+12
Y-93       6.78E+12
Zr-95      6.89E+13
Zr-97      1.85E+13
Nb-95      7.08E+13
Mo-99      1.61E+16
Tc-99m     1.54E+16
Ru-103     1.75E+16
Ru-105     7.74E+13
Ru-106     6.24E+15
Rh-105     6.95E+15
```

```
Sb-127     1.30E+15
Sb-129     2.71E+13
Te-127     1.39E+15
Te-127m    2.15E+14
Te-129     4.85E+14
Te-129m    7.01E+14
Te-131m    1.05E+15
Te-132     1.63E+16
I-131      3.40E+17
I-132      1.69E+16
I-133      2.67E+17
I-134      5.97E+06
I-135      2.44E+16
Xe-133     5.25E+18
Xe-135     2.23E+17
Cs-134     1.64E+16
Cs-136     4.45E+15
Cs-137     9.54E+15
Ba-139     4.25E+08
Ba-140     4.72E+15
La-140     2.13E+15
La-141     2.25E+11
La-142     3.03E+07
Ce-141     6.19E+14
Ce-143     3.03E+14
Ce-144     5.01E+14
Pr-143     8.69E+13
Nd-147     2.53E+13
Np-239     5.26E+15
Pu-238     1.72E+12
Pu-239     1.47E+11
Pu-240     2.18E+11
Pu-241     4.90E+13
Am-241     6.83E+09
Cm-242     1.56E+12
Cm-244     1.68E+11


******** BEGINNING OF CHANGE CASE   5 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  6 OF 8

       *

  262  RDATNAM2001 'LATE MEDIUM'

********   RECORD NUMBER   262 REPLACES RECORD NUMBER   123   ********
       *

  263  RDOALARM001   7.17E+03

********   RECORD NUMBER   263 REPLACES RECORD NUMBER   124   ********
  264  RDNUMREL001   1

********   RECORD NUMBER   264 REPLACES RECORD NUMBER   125   ********
  265  RDMAXRIS001   1

********   RECORD NUMBER   265 REPLACES RECORD NUMBER   126   ********
  266  RDREFTIM001   0.5

********   RECORD NUMBER   266 REPLACES RECORD NUMBER   127   ********
  267  RDPLHEAT001   9.20E+05
```

```
********   RECORD NUMBER   267 REPLACES RECORD NUMBER   128   ********
  268  RDPLHITE001   30.

********   RECORD NUMBER   268 REPLACES RECORD NUMBER   129   ********
  269  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   269 REPLACES RECORD NUMBER   130   ********
  270  RDPDELAY001   7.70E+04

********   RECORD NUMBER   270 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  271  RDRELFRC001 8.2E-01 1.5E-02 4.3E-03 1.5E-03 8.0E-05 1.4E-03 5.1E-06 4.7E-05
3.5E-04
********   RECORD NUMBER   271 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   5 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   5
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      4.20E+13
Co-60      3.25E+13
Kr-85      3.17E+16
Kr-85m     3.99E+15
Kr-87      1.68E+10
Kr-88      5.45E+14
Rb-86      3.36E+13
Sr-89      2.43E+14
Sr-90      2.46E+13
Sr-91      2.71E+13
Sr-92      6.55E+10
Y-90       8.59E+12
Y-91       2.08E+13
Y-92       1.40E+12
Y-93       2.50E+12
Zr-95      2.70E+13
Zr-97      7.02E+12
Nb-95      2.78E+13
Mo-99      6.02E+15
Tc-99m     5.79E+15
Ru-103     6.63E+15
Ru-105     2.55E+13
Ru-106     2.36E+15
Rh-105     2.59E+15
Sb-127     4.03E+14
Sb-129     7.35E+12
Te-127     4.33E+14
Te-127m    6.72E+13
Te-129     1.50E+14
Te-129m    2.19E+14
Te-131m    3.22E+14
```

```
Te-132     5.07E+15
I-131      4.24E+16
I-132      5.22E+15
I-133      3.23E+16
I-134      3.70E+05
I-135      2.78E+15
Xe-133     4.27E+18
Xe-135     1.17E+17
Cs-134     3.07E+15
Cs-136     8.31E+14
Cs-137     1.78E+15
Ba-139     1.05E+08
Ba-140     1.81E+15
La-140     8.36E+14
La-141     7.54E+10
La-142     7.97E+06
Ce-141     2.42E+14
Ce-143     1.16E+14
Ce-144     1.96E+14
Pr-143     3.42E+13
Nd-147     9.90E+12
Np-239     2.04E+15
Pu-238     6.72E+11
Pu-239     5.76E+10
Pu-240     8.55E+10
Pu-241     1.92E+13
Am-241     2.68E+09
Cm-242     6.13E+11
Cm-244     6.58E+10


******** BEGINNING OF CHANGE CASE   6 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  7 OF 8

       *

  272  RDATNAM2001 'LATE LOW'

********   RECORD NUMBER   272 REPLACES RECORD NUMBER   123   ********
       *

  273  RDOALARM001   2.19E+04

********   RECORD NUMBER   273 REPLACES RECORD NUMBER   124   ********
  274  RDNUMREL001   1

********   RECORD NUMBER   274 REPLACES RECORD NUMBER   125   ********
  275  RDMAXRIS001   1

********   RECORD NUMBER   275 REPLACES RECORD NUMBER   126   ********
  276  RDREFTIM001   0.5

********   RECORD NUMBER   276 REPLACES RECORD NUMBER   127   ********
  277  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   277 REPLACES RECORD NUMBER   128   ********
  278  RDPLHITE001   30.

********   RECORD NUMBER   278 REPLACES RECORD NUMBER   129   ********
  279  RDPLUDUR001   8.64E+04
```

```
********   RECORD NUMBER   279 REPLACES RECORD NUMBER   130   ********
  280  RDPDELAY001   9.13E+04

********   RECORD NUMBER   280 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  281  RDRELFRC001 7.0E-01 1.1E-03 7.9E-04 1.2E-03 8.7E-05 3.5E-06 2.6E-06 2.4E-05
7.4E-05
********   RECORD NUMBER   281 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   6 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   6
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      1.05E+11
Co-60      8.12E+10
Kr-85      2.71E+16
Kr-85m     1.84E+15
Kr-87      1.64E+09
Kr-88      1.76E+14
Rb-86      6.14E+12
Sr-89      2.63E+14
Sr-90      2.67E+13
Sr-91      2.20E+13
Sr-92      2.58E+10
Y-90       9.44E+12
Y-91       1.10E+13
Y-92       7.15E+11
Y-93       9.71E+11
Zr-95      1.38E+13
Zr-97      3.04E+12
Nb-95      1.42E+13
Mo-99      1.44E+13
Tc-99m     1.39E+13
Ru-103     1.65E+13
Ru-105     3.43E+10
Ru-106     5.90E+12
Rh-105     5.98E+12
Sb-127     3.13E+14
Sb-129     3.11E+12
Te-127     3.38E+14
Te-127m    5.37E+13
Te-129     1.17E+14
Te-129m    1.75E+14
Te-131m    2.35E+14
Te-132     3.91E+15
I-131      3.09E+15
I-132      4.03E+15
I-133      2.08E+15
I-134      1.17E+03
I-135      1.34E+14
Xe-133     3.56E+18
```

```
Xe-135     6.83E+16
Cs-134     5.65E+14
Cs-136     1.51E+14
Cs-137     3.28E+14
Ba-139     3.00E+06
Ba-140     3.79E+14
La-140     1.95E+14
La-141     1.91E+10
La-142     6.81E+05
Ce-141     1.23E+14
Ce-143     5.46E+13
Ce-144     1.00E+14
Pr-143     1.78E+13
Nd-147     5.00E+12
Np-239     9.91E+14
Pu-238     3.43E+11
Pu-239     2.94E+10
Pu-240     4.37E+10
Pu-241     9.79E+12
Am-241     1.37E+09
Cm-242     3.13E+11
Cm-244     3.35E+10


******** BEGINNING OF CHANGE CASE   7 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  8 OF 8

       *

  282  RDATNAM2001 'LATE LOWLOW'

********   RECORD NUMBER   282 REPLACES RECORD NUMBER   123   ********
       *

  283  RDOALARM001   2.56E+04

********   RECORD NUMBER   283 REPLACES RECORD NUMBER   124   ********
  284  RDNUMREL001   1

********   RECORD NUMBER   284 REPLACES RECORD NUMBER   125   ********
  285  RDMAXRIS001   1

********   RECORD NUMBER   285 REPLACES RECORD NUMBER   126   ********
  286  RDREFTIM001   0.5

********   RECORD NUMBER   286 REPLACES RECORD NUMBER   127   ********
  287  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   287 REPLACES RECORD NUMBER   128   ********
  288  RDPLHITE001   30.

********   RECORD NUMBER   288 REPLACES RECORD NUMBER   129   ********
  289  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   289 REPLACES RECORD NUMBER   130   ********
  290  RDPDELAY001   1.13E+05

********   RECORD NUMBER   290 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
```

```
  291  RDRELFRC001 9.1E-01 8.1E-04 7.0E-04 7.6E-04 3.6E-05 2.1E-06 1.1E-06 1.2E-05
3.3E-05
********   RECORD NUMBER   291 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   7 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   7
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	6.27E+10
Co-60	4.87E+10
Kr-85	3.52E+16
Kr-85m	9.42E+14
Kr-87	8.00E+07
Kr-88	5.27E+13
Rb-86	5.39E+12
Sr-89	1.09E+14
Sr-90	1.11E+13
Sr-91	5.88E+12
Sr-92	2.28E+09
Y-90	4.36E+12
Y-91	4.66E+12
Y-92	9.41E+10
Y-93	2.72E+11
Zr-95	5.80E+12
Zr-97	1.00E+12
Nb-95	5.99E+12
Mo-99	8.14E+12
Tc-99m	7.83E+12
Ru-103	9.87E+12
Ru-105	8.02E+09
Ru-106	3.54E+12
Rh-105	3.19E+12
Sb-127	1.89E+14
Sb-129	7.49E+11
Te-127	2.06E+14
Te-127m	3.40E+13
Te-129	7.24E+13
Te-129m	1.10E+14
Te-131m	1.29E+14
Te-132	2.35E+15
I-131	2.23E+15
I-132	2.42E+15
I-133	1.25E+15
I-134	7.35E+00
I-135	5.26E+13
Xe-133	4.48E+18
Xe-135	5.59E+16
Cs-134	5.00E+14
Cs-136	1.32E+14
Cs-137	2.90E+14
Ba-139	6.46E+04
Ba-140	1.67E+14
La-140	9.47E+13

```
La-141     2.79E+09
La-142     1.92E+04
Ce-141     6.13E+13
Ce-143     2.41E+13
Ce-144     5.01E+13
Pr-143     8.24E+12
Nd-147     2.08E+12
Np-239     4.60E+14
Pu-238     1.72E+11
Pu-239     1.47E+10
Pu-240     2.18E+10
Pu-241     4.89E+12
Am-241     5.92E+08
Cm-242     1.32E+11
Cm-244     1.42E+10


USER INPUT IS READ FROM UNIT 25
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE

       *

    1  MIEANAM1001 'EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES'

    2  DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)

       *

       *             ORGNAM         ORGFLG

       *

    3  MIORGDEF001  'A-SKIN'        .TRUE.

    4  MIORGDEF002  'A-RED MARR'    .TRUE.

    5  MIORGDEF003  'A-LUNGS'       .TRUE.

    6  MIORGDEF004  'A-THYROIDH'    .TRUE.

    7  MIORGDEF005  'A-STOMACH'     .TRUE.

    8  MIORGDEF006  'A-LOWER LI'    .FALSE.  (does not contribute to early
fatalities)
    9  MIORGDEF007  'L-EDEWBODY'    .TRUE.

   10  MIORGDEF008  'L-RED MARR'    .TRUE.

   11  MIORGDEF009  'L-BONE SUR'    .TRUE.

   12  MIORGDEF010  'L-BREAST'      .TRUE.

   13  MIORGDEF011  'L-LUNGS'       .TRUE.

   14  MIORGDEF012  'L-THYROID'     .TRUE.
```

```
15  MIORGDEF013  'L-LOWER LI'    .TRUE.
16  MIORGDEF014  'L-BLAD WAL'    .TRUE.
17  MIORGDEF015  'L-LIVER'       .FALSE.
18  MIORGDEF016  'L-THYROIDH'    .TRUE.
    *
    * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
    *
19  MIENDAT2001  .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
    *
    * DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
    *                                2  *  WIND-SHIFT WITH ROTATION
    *                                3  *  WIND-SHIFT WITHOUT ROTATION
    *
20  MIIPLUME001  2
    *
    * NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
    *
21  MINUMFIN001  7    (3, 5 OR 7 ALLOWED)
    *
    * LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
    *
22  MIIPRINT001  0
    *
    * LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
    * BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
    *
    *             RISBIN
    *
23  MIRISCAT001   .FALSE.
    *
    * FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
```

```
      *
   24 MIOVRRID001  .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
*****************************************************************************
      * POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
      *
   25 PDPOPFLG001  FILE
      *
      *PDPOPFLG001  UNIFORM
      *PDIBEGIN001  1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
      *PDPOPDEN001  50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))
*****************************************************************************
      * SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
      *
      * THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
      * ONE FOR EACH TYPE OF ACTIVTY:
      *
      * ACTIVITY TYPE:
      *     1 - EVACUEES WHILE MOVING
      *     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
      *     3 - SHELTERED ACTIVITY
      *
      * CLOUD SHIELDING FACTOR
      *
      *    SITE        GG   PB   SEQ  SUR  ZION
      *    SHELTERING  0.7  0.5  0.65 0.6  0.5
      *
      *            EVACUEES  NORMAL  SHELTER
      *
   26 SECSFACT001      1.     0.75     0.6   *  SURRY SHELTERING VALUE
      *
      * PROTECTION FACTOR FOR INHALATION
```

```
    *
27  SEPROTIN001      1.     0.41      0.33  * VALUES FOR NORMAL ACTIVITY AND
    *                                          SHELTERING SELECTED BY NRC STAFF
    *
    * BREATHING RATE (CUBIC METERS PER SECOND)
    *
28  SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
    *
    * SKIN PROTECTION FACTOR
    *
29  SESKPFAC001  1.0      0.41     0.33    * VALUES FOR NORMAL ACTIVITY AND
    *                                         SHELTERING SELECTED BY NRC STAFF
    *
    * GROUND SHIELDING FACTOR
    *
    *    SITE        GG   PB   SEQ  SUR  ZION
    *    SHELTERING  0.25 0.1  0.2  0.2  0.1
    *
30  SEGSHFAC001      0.5    0.4    0.2   * VALUE FOR NORMAL ACTIVITY SELECTED BY
    *                                        NRC STAFF
    *
    * RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
    *
    *   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
    *   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
    *   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
    *   USED IN CHRONC.
    *
31  SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
    *
    * RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
```

```
     *
32   SERESHAF001   1.82E5    (2.11 DAYS)
*****************************************************************************
     * EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
     *
     * SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
     *
33   EZEANAM2001  'NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE'
     *
     * THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
     * YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
     *
34   EZWTNAME001  'PEOPLE'
     *
     * WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
     *
35   EZWTFRAC001  1.00
     *
     * LAST RING IN THE MOVEMENT ZONE
     *
36   EZLASMOV001     0   (A ZERO TURNS OFF THE EVACUATION MODEL)
     *
     ********************************************************************
     * SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
     *                                         STORED IN /INPSRZ/, /RELOCA/
     *
     * DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
     *
37   SRENDEMP001  604800.   (ONE WEEK)
     *
     * CRITICAL ORGAN FOR RELOCATION DECISIONS
```

```
     *
38   SRCRIORG001 'L-EDEWBODY'
     *
     * HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
39   SRTIMHOT001  43200.    (ONE-HALF DAY)
     *
     * NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
40   SRTIMNRM001  86400.    (ONE DAY)
     *
     * HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
41   SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
     *
     * NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
42   SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
     * EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
     *
     * NUMBER OF EARLY FATALITY EFFECTS
     *
43   EFNUMEFA001   2
     *
     *            ORGNAM       EFFACA   EFFACB   EFFTHR
     *
44   EFATAGRP001 'A-RED MARR'      3.8      5.0    1.5
45   EFATAGRP002 'A-LUNGS'        10.0      7.0    5.0
*******************************************************************************
     * EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
```

```
     *
     * NUMBER OF EARLY INJURY EFFECTS
     *
46   EINUMEIN001  7
     *
     *            EINAME           ORGNAM   EISUSC EITHRE EIFACA EIFACB
     *
47   EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
48   EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
49   EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
50   EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
51   EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
52   EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
53   EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3
*******************************************************************************
     * ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
     *
     * NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
     *
54   LCNUMACA001   7
     *
     * THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
     *
55   LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
     *
     * DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
     *
56   LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
     *
     *            ACNAME     ORGNAM  ACSUSC DOSEFA DOSEFB CFRISK   CIRISK  DDREFA
     *
```

```
57  LCANCERS001 'LEUKEMIA' 'L-RED MARR'  1.0   1.0   0.0   9.70E-3   0.0     2.0
58  LCANCERS002 'BONE'     'L-BONE SUR'  1.0   1.0   0.0   9.00E-4   0.0     2.0
59  LCANCERS003 'BREAST'   'L-BREAST'    1.0   1.0   0.0   5.40E-3   1.7E-2  1.0
60  LCANCERS004 'LUNG'     'L-LUNGS'     1.0   1.0   0.0   1.55E-2   0.0     2.0
61  LCANCERS005 'THYROID'  'L-THYROIDH'  1.0   1.0   0.0   7.20E-4   7.2E-3  1.0
62  LCANCERS006 'GI'       'L-LOWER LI'  1.0   1.0   0.0   3.36E-2   0.0     2.0
63  LCANCERS007 'OTHER'    'L-EDEWBODY'  1.0   1.0   0.0   2.76E-2   0.0     2.0

*******************************************************************************
    * RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
    * TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
    *
    * NUMBER OF DESIRED RESULTS OF THIS TYPE
    *
64  TYPE1NUMBER    4
    *
65  TYPE1OUT001    'ERL FAT/TOTAL'                1  15   NOCCDF (0 TO 50 MILES)
66  TYPE1OUT009    'CAN FAT/TOTAL'                1  15   NOCCDF
67  TYPE1OUT019    'CAN FAT/TOTAL'                1  11   NOCCDF (0 TO 10 MILES)
68  TYPE1OUT020    'ERL FAT/TOTAL'                1  11          (0 TO 10 MILES)

*******************************************************************************
    * RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
    * FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
    *
    * NUMBER OF DESIRED RESULTS OF THIS TYPE
    *
69  TYPE2NUMBER  0
    *
    *            FATALITY RISK THRESHOLD
    *
    *TYPE2OUT001  0.
```

```
*******************************************************************************
      * RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
      * NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   70 TYPE3NUMBER  0
      *
      *               ORGAN NAME   DOSE THRESHOLD (Sv)
      *
      *TYPE3OUT001    'A-RED MARR'        1.5
      *TYPE3OUT002    'A-LUNGS'           5.0
      *TYPE3OUT003    'L-EDEWBODY'        0.05

*******************************************************************************
      * RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
      * 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
      *
      * POSSIBLE TYPES OF EFFECTS ARE:
      *
      *   'ERL FAT/TOTAL'
      *   'ERL INJ/INJURY NAME'
      *   'CAN FAT/CANCER NAME'
      *   'CAN FAT/TOTAL'
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
   71 TYPE4NUMBER  3
      *
      *            RADIAL INDEX   TYPE OF EFFECT
      *
   72 TYPE4OUT001       1         'ERL FAT/TOTAL'
```

```
   73  TYPE4OUT002       2         'ERL FAT/TOTAL'
   74  TYPE4OUT003       3         'ERL FAT/TOTAL'

*****************************************************************************
       * RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
       *
       * TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   75  TYPE5NUMBER     1
       *
       *             ORGAN      I1DIS5     I2DIS5
       *
   76  TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)

*****************************************************************************
       * RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
       *
       * CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS
FOLLOWS:
       *
       *  PATHWAY NAME:
       *    'CLD'     - CLOUDSHINE
       *    'GRD'     - GROUNDSHINE
       *    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
       *    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE
CLOUD
       *    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
       *    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
       *    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
       *    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
```

```
     *
  77 TYPE6NUMBER     0
     *
     *             ORGNAM        PATHNM      I1DIS6   I2DIS6
     *
     *TYPE6OUT001  'A-RED MARR'    'TOT ACU'      1       19     (0-50 MILES)
     *TYPE6OUT002  'A-LUNGS'       'TOT ACU'      1       19     (0-50 MILES)
     *TYPE6OUT003  'L-EDEWBODY'    'TOT LIF'      1       26     (0-1000 MILES)

*******************************************************************************
     * RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
     *
     * CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  78 TYPE7NUMBER   0
     *
     *                    NAME           I1DIS7       I2DIS7
     *
     *TYPE7OUT001     'ERL FAT/TOTAL'        1           19       (0-50 MILES)
     *TYPE7OUT002     'CAN FAT/TOTAL'        1           26       (0-1000 MILES)

*******************************************************************************
     * RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
     *
     * POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  79 TYPE8NUMBER   2
     *
     *                NAME       I1DIS8  I2DIS8
```

```
      *
   80 TYPE8OUT001 'ERL FAT/TOTAL'   1       3     NOCCDF
   81 TYPE8OUT002 'CAN FAT/TOTAL'   1      11     NOCCDF  (0-10 MILES)

*******************************************************************************
      * RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/
      *
      * peak dose to a given organ
      *
      *            NUMA
   82 TYPEANUMBER   0
      *
      *              ORGNAM    I1DISA  I2DISA
      *TYPEAOUT001 'L-EDEWBODY'  1       15
      .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  341
NUMBER OF BLANK OR COMMENT RECORDS READ         =  258
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   82
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   82
*******************************************************************************
****************


The list of defined organs is as follows (A- is ACUTE and L- is LIFETIME):
   A-SKIN
   A-RED MARR
   A-LUNGS
   A-THYROIDH
   A-STOMACH
   L-EDEWBODY
   L-RED MARR
   L-BONE SUR
   L-BREAST
   L-LUNGS
   L-THYROID
   L-LOWER LI
   L-BLAD WAL
   L-THYROIDH
Am using a DOSFAC/DOSFAC2/IDCF2 dose factor file
```

```
READING FROM A DOSE CONVERSION FILE WITH THE FOLLOWING HEADER:
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1

NO EVACUATION REQUESTED


USING THE FOLLOWING SITE DATA FILE:

MACCS2 Site Data File for Indian Point Energy Center
SITE FILE
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   7 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   1 WATERSHEDS
  21 ECONOMIC REGIONS
 SPATIAL DISTANCES     KILOMETERS
    0.3219    1.6093    3.2187    4.8280    6.4374    8.0467    9.6561   11.2654
   12.8748   14.4841   16.0935   32.1869   48.2804   64.3739   80.4674
 POPULATION
        6.        0.      271.     2059.     2501.      909.      931.     1223.
     1389.     1503.     1696.    22955.    30654.    39620.    51057.0
       16.        7.      170.     1943.     2912.     2051.     1177.     1388.
     1577.     1798.     1913.    28140.    39917.    56226.    67213.0
       17.      193.      883.     2131.     2964.     3843.     3910.     3059.
     2464.     1998.     1915.    29419.    53692.    62559.    41261.0
       17.      364.     1275.     2132.     2977.     3453.     4507.     5282.
     6140.     6960.     7279.    74856.   119073.   152175.   176338.0
       17.      390.     1218.     2138.     2934.     3792.     4424.     5513.
     5587.     7201.     8076.   118335.   156720.   200581.   208394.0
       17.      409.     1256.     2136.     2970.     3592.     3698.     3857.
     5734.     6783.     7409.   121515.   144267.    54180.    34361.0
       17.      410.     1274.     2138.     2872.     3808.     4537.     5279.
     6284.     7194.     8060.   111946.    87735.   236426.   379990.0
       17.      360.     1268.     1645.      882.      495.       15.     1442.
      948.     1911.     3214.    98326.   481703.  1380249.  1218170.0
       17.      400.      701.      246.      124.      620.     1538.     3253.
     4129.     4455.     5138.   135211.  1164596.  3732339.  3164306.0
       17.      377.      562.      500.     1700.     2882.     3544.     4187.
     4873.     5517.     6159.   202605.   395389.   922649.  1034467.0
       17.      217.      187.     1566.     2274.     2916.     3574.     4188.
     4361.     5358.     6138.   183372.   276902.   197362.   246076.0
        9.        0.      620.     1623.     2197.     2924.     3550.     4014.
     4196.     4255.     4335.    64428.   209197.   109102.    85849.0
        3.        0.      855.     1602.     2267.     2815.     2368.     1787.
     1423.     1775.     2030.    32026.    50974.    61380.    57384.0
        2.        0.      938.     1624.     2245.     1341.     1135.     1419.
     1505.     1756.     2071.    32528.    54577.    57977.    29719.0
        2.       45.      974.     1589.     1933.      972.     1140.     1351.
     1541.     1781.     2093.    32572.    54557.    24046.    22317.0
        3.       50.      809.     1051.     1587.      740.     1204.     1407.
     1620.     1787.     2028.    31660.    32569.    27599.    34374.0
 LAND FRACTION
 0.37 0.00 0.23 0.96 0.99 0.94 0.78 0.87 0.85 0.81 0.82 0.83 0.94 0.94 0.93
 0.92 0.02 0.13 0.91 0.97 0.98 1.00 1.00 0.98 0.99 0.94 0.95 0.99 0.99 0.98
 1.00 0.47 0.69 1.00 0.99 1.00 0.98 0.96 0.95 1.00 0.94 0.91 0.94 0.95 0.96
 1.00 0.89 0.99 1.00 0.99 0.90 0.96 0.95 0.96 0.96 0.97 0.91 0.92 0.95 0.98
 1.00 0.95 0.95 1.00 0.98 0.99 0.94 0.99 0.87 0.99 0.99 0.92 0.97 0.97 0.78
 1.00 1.00 0.98 1.00 0.99 0.93 0.79 0.69 0.89 0.93 0.91 0.97 0.95 0.27 0.12
 1.00 1.00 0.99 1.00 0.96 0.99 0.96 0.95 0.98 0.99 0.99 0.93 0.53 0.48 0.98
 1.00 0.88 0.99 0.77 0.29 0.13 0.00 0.26 0.16 0.30 0.43 0.77 0.70 0.79 0.82
 1.00 0.97 0.55 0.12 0.05 0.21 0.43 0.77 0.85 0.81 0.83 0.84 0.87 0.81 0.59
```

```
 1.00 0.92 0.44 0.31 0.75 0.99 0.99 0.99 1.00 1.00 1.00 0.99 0.99 0.93 0.92
 1.00 0.53 0.18 0.96 1.00 1.00 1.00 0.99 0.89 0.97 0.99 0.98 0.93 0.90 0.94
 0.52 0.00 0.64 1.00 0.97 1.00 0.99 0.95 0.91 0.92 0.94 0.94 0.93 0.97 0.94
 0.19 0.00 0.88 0.99 1.00 1.00 1.00 0.98 0.86 0.95 0.97 0.97 0.98 0.97 0.97
 0.13 0.00 0.96 1.00 1.00 0.99 0.94 0.99 0.91 0.94 0.99 0.98 0.99 0.97 0.95
 0.14 0.14 1.00 0.98 0.99 0.98 0.94 0.94 0.93 0.95 1.00 0.98 0.99 0.99 0.96
 0.20 0.16 0.83 0.57 0.65 0.75 0.99 0.98 0.98 0.95 0.97 0.96 0.96 0.99 0.96
 REGION INDEX
2021202020141414141314060606060
2021202020141414141414140606060
2020202020202014141414140603030
2020202020202020202020200101040
2020202020202020202020200101040
2020202020202020202020200101170
2020202020202020202020200112170
2020202020202120202020202012120
2020202021161616161616160215110
2020201616161616161616020205100
2020161616161616161616160807070
2021161616161616161616130809090
2021161616161313131313131309090
2021161616131313131313131313180
2016161616131313131313131318180
2016161620131313131313131919190
 WATERSHED INDEX
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 CROP SEASON AND SHARE
   1 PASTURE               90. 270.  0.0162
   2 STORED FORAGE        150. 240.  0.0480
   3 GRAINS               150. 240.  0.0079
   4 GRN LEAFY VEGETABLES 150. 240.  0.0005
   5 OTHER FOOD CROPS     150. 240.  0.0036
   6 LEGUMES AND SEEDS    150. 240.  0.0002
   7 ROOTS AND TUBERS     150. 240.  0.0018
 WATERSHED DEFINITION  -- INITIAL AND ANNUAL WASHOFF AND INGESTION FACTORS
   1 Sr-89                           5.00E-06
   2 Sr-90                           5.00E-06
   3 Cs-134                          5.00E-06
   4 Cs-137                          5.00E-06
 REGIONAL ECONOMIC DATA
  01 FAIRFIELD      0.032 .008    5831.0   66592.0  287881.0
  02 BERGEN         0.009 .000   14568.0  124496.0  262186.0
  03 LITCHFIELD     0.159 .371     795.0   22373.0  186016.0
  04 NEWHAVEN       0.067 .029    5439.0   36942.0  192427.0
  05 ESSEX          0.002 .000   11903.0  120139.0  197400.0
  06 DUTCHESS       0.219 .207     698.0   16206.0  169417.0
  07 MORRIS         0.057 .006    6005.0   67365.0  277661.0
  08 PASSAIC        0.013 .000    9836.0   81944.0  161864.0
```

```
  09 SUSSEX         0.226 .311     483.0   18496.0  165741.0
  10 UNION          0.003 .000   91646.0  243939.0  209708.0
  11 KINGS          0.000 .000       0.0       0.0  123701.0
  12 NASSAU         0.006 .000   18237.0   88422.0  239932.0
  13 ORANGE         0.207 .288    1516.0   13148.0  148873.0
  14 PUTNAM         0.045 .000     892.0   24525.0  180274.0
  15 QUEENS         0.000 .000       0.0       0.0  226728.0
  16 ROCKLAND       0.011 .047    6365.0   65755.0  203359.0
  17 SUFFOLK        0.058 .000   14567.0   54566.0  192471.0
  18 SULLIVAN       0.103 .233    1466.0    7911.0  139374.0
  19 ULSTER         0.116 .043    1019.0    9908.0  138739.0
  20 WESTCHESTR     0.036 .009    2206.0   39116.0  263389.0
  21 WATER          0.000 .000       0.0       0.0       0.0
POPULATION

>>The Record Identifier TYPEBNUMBER was not found:
>>Type B results not being generated



USER INPUT IS READ FROM UNIT 26
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE

       *

    1  CHCHNAME001 'CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model'

*******************************************************************************

       * EMERGENCY RESPONSE COST DATA BLOCK

       *

       * DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)

       *

    2  CHEVACST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

       *

       * DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)

       *

    3  CHRELCST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

*******************************************************************************

       * LONG TERM PROTECTIVE ACTION DATA BLOCK

       *
```

```
      * Duration of the intermediate phase period--at version 1.11c TMIPND is no
      * longer processed.  The new input variable DUR_INTPHAS is the period's
      * duration, not the time after plume arrival at which the period ends.
      *
    4 DUR_INTPHAS   0.0    (in seconds)   (no intermediate phase)
      *
      * LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
      * PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
      *
    5 CHTMPACT001   1.58E8             (5 YEARS)
      *
      * DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
      *
    6 CHDSCRTI001   1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
      *
      * DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
      *
    7 CHDSCRLT001    0.04
      *
      * CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
      *
    8 CHCRTOCR001 'L-EDEWBODY'
      *
      * Long Term Exposure Period    Previously permanently set to:
      *    one million years = 3.15 E13 seconds
      *    MACCS2 allowable range is 3.15E7 to 1.E10
      *
    9 CHEXPTIM001    9.45E8
*******************************************************************************
      * DECONTAMINATION PLAN DATA BLOCK
      *
```

```
     * NUMBER OF LEVELS OF DECONTAMINATION
     *
  10 CHLVLDEC001  2
     *
     * DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
     *  (SECONDS)
     *
  11 CHTIMDEC001   5.184E6  1.0368E7    (60, 120 DAYS)
     *
     * DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF
DECONTAMINATION
     *
  12 CHDSRFCT001   3.      15.
     *
     * COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  13 CHCDFRM0001   972.   2160.
     *
     * COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
     *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
     *
  14 CHCDNFRM001   5184.   13824.
     *
     * FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  15 CHFRFDL0001  .3      .35
     *
     * FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  16 CHFRNFDL001  .7      .5
```

```
      *
      * FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   17 CHTFWKF0001  .10     .33
      *
      * FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
      *  FOR THE VARIOUS DECONTAMINATION LEVELS
      *
   18 CHTFWKNF001  .33     .33
      *
      * AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
      *
   19 CHDLBCST001   60480.
*******************************************************************************
      * INTERDICTION COST DATA BLOCK
      *
      * DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
      *
   20 CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER
YEAR)
      * THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
      *
   21 CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
      *
      * POPULATION RELOCATION COST (DOLLARS/PERSON):
      *  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
      *  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
      *
   22 CHPOPCST001   8640.
```

```
*******************************************************************************
      * GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
      *
  23  CHNGWTRM001   2
      *
      * GROUNDSHINE WEATHERING COEFFICIENTS
      *
  24  CHGWCOEF001   0.5    0.5            (JON HELTON)
      *
      * HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
      *
  25  CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*******************************************************************************
      * RESUSPENSION WEATHERING DEFINITION DATA BLOCK
      *
      * NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
      *
  26  CHNRWTRM001    3
      *
      * RESUSPENSION CONCENTRATION COEFFICIENTS   (/ METER)
      *  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
      *
  27  CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
      *
      * HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
      *
  28  CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*******************************************************************************
```

```
     * SITE REGION DESCRIPTION DATA BLOCK
     *
     * FRACTION OF AREA THAT IS LAND IN THE REGION
     *
  29 CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
     *
  30 CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
     *  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN
FARMS)
     *
  31 CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
     *  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME
CONSUMPTION)
     *
  32 CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * VALUE OF FARM WEALTH (DOLLARS/HECTARE)
     *  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
     *
  33 CHVALWF0001    50071.
     *
     * FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
     *
  34 CHFRFIM0001   0.25
     *
     * NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
     *  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
```

```
*  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
*
35  CHVALWNF001    208838.
*
* FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
*
36  CHFRNFIM001   0.8
*******************************************************************************
37  CHFDPATH001 'NEW'
*
* name of the COMIDA2 binary output file
*
38  BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
*
* Dose limits triggering first year crop disposal of the separate
* milk and non-milk components of the diet, corresponding in purpose,
* more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
*
* For NUREG-1150 calculations, the maximum allowable ground concentrations
for
* production of milk and non-milk crops contaminated by an accident occurring
* in the growing season were derived based on an assumed maximum allowable
* dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
* reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
* the prior results, it is being assumed, for simplicity, that milk and
* non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
* effective dose limit used in NUREG-1150 is equally split between milk and
* non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
* thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
* portions of the diet.
*
*             effective     thyroid  (doses in sieverts)
39  DOSEMILK001    0.025          0.075
```

```
40  DOSEOTHR001    0.025          0.075
    *
    * Annual dose limits for the subsequent year's (i.e., after the first year)
    * interdiction of BOTH the milk and non-milk (combined) components of the
diet
    *
    * Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
    * an ingestion dose integrated from zero to infinity.  It is not possible to
    * translate those parameter values into corresponding annual dose limits, as
is
    * required by the COMIDA2-based food model.  The "total" dose limits used in
    * NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are
used
    * here as annual dose limits for interdiction of food production in years the
    * years subsequent to the accident.
    *
    *             effective     thyroid  (doses in sieverts)
41  DOSELONG001    0.005          0.015
    *
    * NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
    *
42  CHNUMWPI001    4
    *
    * TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
    *
    * IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
    *  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
    *
    *                        INITIAL     ANNUAL    INGESTION FACTOR
    *             WATER      WASHOFF     WASHOFF    ((Bq INGESTED)/
    *            NUCLIDE     FRACTION     RATE       (Bq IN WATER))
    *
    *             NAMWPI      WSHFRI      WSHRTA         WINGF
43  CHWTRISO001   Sr-89        0.01       0.004          5.0E-6
```

```
44  CHWTRISO002   Sr-90        0.01       0.004          5.0E-6
45  CHWTRISO003   Cs-134       0.005      0.001          5.0E-6
46  CHWTRISO004   Cs-137       0.005      0.001          5.0E-6

*****************************************************************************
      * SPECIAL OPTIONS DATA BLOCK
      *
      * DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING
ON!!
      *          KSWDSC
      *
47  CHKSWTCH001   0

*****************************************************************************
      * DEFINE THE TYPE 9 RESULTS
      *
      * LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
48  TYPE9NUMBER   1      (UP TO 10 ALLOWED)
      *
      *              ORGNAM        INNER      OUTER
      *
49  TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)

*****************************************************************************
      * ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS
      *
      * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
      * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12
      *
50  TYP10NUMBER   1      (UP TO 10 ALLOWED)
```

```
       *
       *               INNER      OUTER
       *
   51  TYP10OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
       *
       * SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
       * A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE
OUTPUT.
       *
   52  TYP11FLAG11  .FALSE.
*****************************************************************************
       * IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF
IMPACTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
       *
   53  TYP12NUMBER   0      (UP TO 10 ALLOWED)
       *
       *               INNER      OUTER
       *
       *TYP12OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * Maximal annual food ingestion dose to an individual, requested by IXOT13
       *
       * This result is calculated after accounting for temporary or
       * permanent interdiction.  It is only available for the "new" food model.
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       *
```

```
  54  TYP13NUMBER   0   (UP TO 10 ALLOWED)
      *
      * IRAD13 is the radial spatial interval at which results are requested
      *
      * ORGN13 is the name of the organ for which results are requested
      *  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
      *
      *          IRAD13   ORGN13
      *
      *TYP13OUT001   2    EFFECTIVE
      *TYP13OUT002   4    EFFECTIVE
      *TYP13OUT003   6    EFFECTIVE
      *TYP13OUT004   8    EFFECTIVE
      *TYP13OUT005  10    EFFECTIVE
      *TYP13OUT006  12    EFFECTIVE
      *TYP13OUT007  15    EFFECTIVE
      *TYP13OUT008   2    THYROID
      *TYP13OUT009   4    THYROID
      *TYP13OUT010   6    THYROID
      *TYP13OUT011   8    THYROID
      *TYP13OUT012  10    THYROID
      *TYP13OUT013  12    THYROID
      *TYP13OUT014  15    THYROID
      .
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********

USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  318
NUMBER OF BLANK OR COMMENT RECORDS READ         =  263
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   54
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   54
*******************************************************************************
****************
```

```
COMIDA2 binary file header =
COMIDA2 01/14/2004 13:06:02   Version 1.11.1, 01/12/2004

COMIDA2 descriptive title  =
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47

Seven new organs added with MACCS Version 1.5.11.1


A SITE DATA FILE IS BEING USED FOR BOTH "EARLY" AND "CHRONC"

 7 CANCER EFFECTS ARE DEFINED IN THE MODEL.
    INDEX  CANCER EFFECT                    ORGAN       ALPHA       BETA     CFRISK
   CIRISK
       1                       LEUKEMIA     L-RED MARR   1.000E+00  0.000E+00
9.700E-03  0.000E+00
       2                       BONE         L-BONE SUR   1.000E+00  0.000E+00
9.000E-04  0.000E+00
       3                       BREAST       L-BREAST     1.000E+00  0.000E+00
5.400E-03  1.700E-02
       4                       LUNG         L-LUNGS      1.000E+00  0.000E+00
1.550E-02  0.000E+00
       5                       THYROID      L-THYROIDH   1.000E+00  0.000E+00
7.200E-04  7.200E-03
       6                       GI           L-LOWER LI   1.000E+00  0.000E+00
3.360E-02  0.000E+00
       7                       OTHER        L-EDEWBODY   1.000E+00  0.000E+00
2.760E-02  0.000E+00

  TIME OF HOTSPOT RELOCATION IS 4.3200E+04.
  TIME OF NORMAL RETURN IS  8.640E+04 AND THE EMERGENCY PHASE ENDS AT  6.048E+05.


GROUNDSHINE SHIELDING FACTOR   = 0.400

RESUSPENSION PROTECTION FACTOR = 0.410

BREATHING RATE (CUBIC M/S) =   2.660E-04

  DISPERSION MODEL FLAG IS  2

  WINDROSE PROBABILITIES BY WIND DIRECTION AND MET BIN NUMBER
 BIN     1      2      3      4      5      6      7      8      9     10     11
12     13     14     15     16
    1 0.2376 0.0387 0.0442 0.0939 0.0497 0.0608 0.0718 0.0718 0.0663 0.0497 0.0055
0.0000 0.0166 0.0276 0.0000 0.1657
    2 0.3258 0.0225 0.0000 0.0000 0.0000 0.1011 0.1910 0.1461 0.0112 0.0225 0.0000
0.0000 0.0000 0.0000 0.0000 0.1798
    3 0.0942 0.1166 0.0538 0.0493 0.0404 0.0269 0.0404 0.0224 0.0314 0.0359 0.0359
0.0448 0.0807 0.1031 0.0807 0.1435
    4 0.1525 0.0905 0.0689 0.0620 0.0522 0.0432 0.0411 0.0481 0.0996 0.1072 0.0696
0.0313 0.0306 0.0209 0.0244 0.0578
    5 0.1219 0.0577 0.0264 0.0406 0.0535 0.0770 0.1005 0.0677 0.1825 0.1518 0.0435
0.0228 0.0093 0.0014 0.0043 0.0392
    6 0.0646 0.0543 0.0131 0.0262 0.0459 0.1105 0.2004 0.0768 0.2116 0.1610 0.0206
0.0028 0.0000 0.0000 0.0000 0.0122
    7 0.0549 0.0000 0.0000 0.0440 0.0769 0.0989 0.2747 0.0440 0.3077 0.0879 0.0000
0.0000 0.0000 0.0000 0.0000 0.0110
    8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    9 0.1127 0.0880 0.0599 0.0634 0.0317 0.0335 0.0229 0.0370 0.0687 0.1021 0.0599
0.0405 0.0581 0.0599 0.0722 0.0898
   10 0.1290 0.0937 0.0791 0.0365 0.0158 0.0146 0.0085 0.0085 0.0426 0.2092 0.1898
```

0.0535 0.0195 0.0146 0.0122 0.0730
11 0.1918 0.0788 0.0171 0.0171 0.0308 0.0205 0.0445 0.0308 0.0719 0.3048 0.1438
0.0000 0.0000 0.0000 0.0000 0.0479
12 0.1786 0.0536 0.0357 0.0000 0.0179 0.0179 0.0536 0.1071 0.1429 0.3036 0.0179
0.0000 0.0000 0.0000 0.0000 0.0714
13 0.0521 0.0190 0.0332 0.0379 0.0474 0.0427 0.0569 0.0664 0.2417 0.1991 0.0948
0.0427 0.0190 0.0190 0.0142 0.0142
14 0.0578 0.0289 0.0217 0.0289 0.0108 0.0181 0.0108 0.0181 0.0975 0.4116 0.1913
0.0433 0.0108 0.0036 0.0108 0.0361
15 0.0579 0.0083 0.0083 0.0083 0.0248 0.0909 0.1240 0.0413 0.0248 0.4132 0.1901
0.0000 0.0000 0.0000 0.0000 0.0083
16 0.0227 0.0000 0.0000 0.0682 0.0000 0.1591 0.0455 0.1136 0.3182 0.2727 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
17 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
18 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
19 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
20 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
21 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
22 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
23 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
24 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
25 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
26 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
27 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
28 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
29 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
30 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
31 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
32 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
33 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
34 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
35 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
36 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
37 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
38 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
39 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
40 0.1816 0.0602 0.0234 0.0154 0.0091 0.0197 0.0133 0.0197 0.1028 0.2247 0.0719
0.0383 0.0304 0.0202 0.0399 0.1294
41 0.1334 0.0666 0.0381 0.0372 0.0340 0.0491 0.0652 0.0445 0.1215 0.1760 0.0749
0.0285 0.0218 0.0170 0.0218 0.0703

```
Processing a Site Data File with Header: MACCS2 Site Data File for Indian Point
Energy Center
 SITE FILE

 THIS PROGRAM CURRENTLY ALLOWS THE GENERATION OF UP TO  394 RESULTS

YOU HAVE REQUESTED  10 RESULTS FROM "EARLY" COMPOSED OF:

   4 RESULTS OF TYPE 1
   0 RESULTS OF TYPE 2
   0 RESULTS OF TYPE 3
   3 RESULTS OF TYPE 4
   1 RESULTS OF TYPE 5
   0 RESULTS OF TYPE 6
   0 RESULTS OF TYPE 7
   2 RESULTS OF TYPE 8
   0 RESULTS OF TYPE A
   0 RESULTS OF TYPE B

YOU HAVE REQUESTED   30 RESULTS FROM "CHRONC" COMPOSED OF:

  17 RESULTS OF TYPE 9
  13 RESULTS OF TYPE 10
   0 RESULTS OF TYPE 11
   0 RESULTS OF TYPE 12
   0 RESULTS OF TYPE 13


     TRIAL        DAY       HOUR        BIN     PRBMET
         1        152          6         29   1.26E-03
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
         2        153         16          1   5.17E-03
For Julian Day 153, selecting COMIDA2 results # 4 of 9
         3        154         20         18   2.37E-03
For Julian Day 154, selecting COMIDA2 results # 4 of 9
         4        155          7         24   2.28E-04
For Julian Day 155, selecting COMIDA2 results # 4 of 9
         5        155         15         33   4.00E-04
For Julian Day 155, selecting COMIDA2 results # 4 of 9
         6        155         17         32   1.43E-04
For Julian Day 155, selecting COMIDA2 results # 4 of 9
         7        155         18         31   1.14E-04
For Julian Day 155, selecting COMIDA2 results # 4 of 9
         8        155         21         36   2.00E-04
```

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For Julian Day 155, selecting COMIDA2 results # 4 of 9
          9        156          3         21   8.42E-03
For Julian Day 156, selecting COMIDA2 results # 4 of 9
         10        158         16         23   2.97E-03
For Julian Day 158, selecting COMIDA2 results # 4 of 9
         11        160          6          3   6.36E-03
For Julian Day 160, selecting COMIDA2 results # 4 of 9
         12        160         16         28   9.70E-04
For Julian Day 160, selecting COMIDA2 results # 4 of 9
         13        163         18         28   9.70E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         14        163         21         25   2.57E-04
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         15        164          6         37   2.28E-04
For Julian Day 164, selecting COMIDA2 results # 4 of 9
         16        164          9         35   1.03E-03
For Julian Day 164, selecting COMIDA2 results # 4 of 9
         17        166         11          4   4.10E-02
For Julian Day 166, selecting COMIDA2 results # 4 of 9
         18        168          1          9   1.62E-02
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         19        170         12         40   5.42E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         20        170         17         39   3.14E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         21        170         18         38   1.71E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         22        170         20         36   2.00E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         23        170         21         36   2.00E-04
For Julian Day 170, selecting COMIDA2 results # 5 of 9
         24        172         17         30   1.71E-04
For Julian Day 172, selecting COMIDA2 results # 5 of 9
         25        184          5         10   2.35E-02
For Julian Day 184, selecting COMIDA2 results # 5 of 9
         26        194         24         15   3.45E-03
For Julian Day 194, selecting COMIDA2 results # 6 of 9
         27        199          2         22   1.32E-02
For Julian Day 199, selecting COMIDA2 results # 6 of 9
         28        199         15         20   2.83E-03
For Julian Day 199, selecting COMIDA2 results # 6 of 9
         29        202         20         38   1.71E-04
For Julian Day 202, selecting COMIDA2 results # 6 of 9
         30        203          2         40   5.42E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         31        203          3         39   3.14E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         32        203         18         38   1.71E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         33        203         19         37   2.28E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         34        203         20         37   2.28E-04
For Julian Day 203, selecting COMIDA2 results # 6 of 9
         35        206         20         13   6.02E-03
For Julian Day 206, selecting COMIDA2 results # 6 of 9
         36        207         14          6   3.05E-02
For Julian Day 207, selecting COMIDA2 results # 6 of 9
         37        211         15          1   5.17E-03
For Julian Day 211, selecting COMIDA2 results # 6 of 9
         38        213         15         19   3.60E-03
For Julian Day 213, selecting COMIDA2 results # 6 of 9
         39        214          6          3   6.36E-03
For Julian Day 214, selecting COMIDA2 results # 6 of 9
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         40        214         12         40   5.42E-04
For Julian Day 214, selecting COMIDA2 results # 6 of 9
         41        216         11         26   3.42E-04
For Julian Day 216, selecting COMIDA2 results # 6 of 9
         42        216         12         24   2.28E-04
For Julian Day 216, selecting COMIDA2 results # 6 of 9
         43        217         20         17   1.26E-02
For Julian Day 217, selecting COMIDA2 results # 6 of 9
         44        217         23         27   5.71E-04
For Julian Day 217, selecting COMIDA2 results # 6 of 9
         45        219         18         26   3.42E-04
For Julian Day 219, selecting COMIDA2 results # 6 of 9
         46        219         19         25   2.57E-04
For Julian Day 219, selecting COMIDA2 results # 6 of 9
         47        223         12         34   6.85E-04
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         48        223         16         32   1.43E-04
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         49        223         21         35   1.03E-03
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         50        230          3         11   8.33E-03
For Julian Day 230, selecting COMIDA2 results # 7 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
         51        235          4          5   4.00E-02
For Julian Day 235, selecting COMIDA2 results # 7 of 9
         52        236         12          2   2.54E-03
For Julian Day 236, selecting COMIDA2 results # 7 of 9
         53        244         10         18   2.37E-03
For Julian Day 244, selecting COMIDA2 results # 7 of 9
         54        244         23         24   2.28E-04
For Julian Day 244, selecting COMIDA2 results # 7 of 9
         55        245          2         25   2.57E-04
For Julian Day 245, selecting COMIDA2 results # 7 of 9
         56        246         24         20   2.83E-03
For Julian Day 246, selecting COMIDA2 results # 7 of 9
         57        247          1         19   3.60E-03
For Julian Day 247, selecting COMIDA2 results # 7 of 9
         58        247         12          4   4.10E-02
For Julian Day 247, selecting COMIDA2 results # 7 of 9
         59        250          3         14   7.91E-03
For Julian Day 250, selecting COMIDA2 results # 7 of 9
         60        253         14          1   5.17E-03
For Julian Day 253, selecting COMIDA2 results # 7 of 9
         61        254          5         12   1.60E-03
For Julian Day 254, selecting COMIDA2 results # 7 of 9
         62        258         22         30   1.71E-04
For Julian Day 258, selecting COMIDA2 results # 8 of 9
         63        261         23         34   6.85E-04
For Julian Day 261, selecting COMIDA2 results # 8 of 9
         64        261         24         33   4.00E-04
For Julian Day 261, selecting COMIDA2 results # 8 of 9
         65        262          1         32   1.43E-04
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         66        268         14         28   9.70E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
         67        268         18         27   5.71E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
         68        268         19         27   5.71E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
         69        268         21         26   3.42E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
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         70        268         23         24   2.28E-04
For Julian Day 268, selecting COMIDA2 results # 8 of 9
         71        269         20         34   6.85E-04
For Julian Day 269, selecting COMIDA2 results # 8 of 9
         72        270          3         33   4.00E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
         73        270          5         32   1.43E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
         74        270          6         31   1.14E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
         75        270          7         30   1.71E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
         76        270         23         36   2.00E-04
For Julian Day 270, selecting COMIDA2 results # 8 of 9
         77        272          3         34   6.85E-04
For Julian Day 272, selecting COMIDA2 results # 8 of 9
         78        272          9         33   4.00E-04
For Julian Day 272, selecting COMIDA2 results # 8 of 9
         79        272         11         31   1.14E-04
For Julian Day 272, selecting COMIDA2 results # 8 of 9
         80        275          2          9   1.62E-02
For Julian Day 275, selecting COMIDA2 results # 8 of 9
         81        284         10          5   4.00E-02
For Julian Day 284, selecting COMIDA2 results # 8 of 9
         82        286         23         14   7.91E-03
For Julian Day 286, selecting COMIDA2 results # 8 of 9
         83        287         24         35   1.03E-03
For Julian Day 287, selecting COMIDA2 results # 9 of 9
         84        288          2         23   2.97E-03
For Julian Day 288, selecting COMIDA2 results # 9 of 9
         85        289          2         10   2.35E-02
For Julian Day 289, selecting COMIDA2 results # 9 of 9
         86        289          3         11   8.33E-03
For Julian Day 289, selecting COMIDA2 results # 9 of 9
         87        291         22         22   1.32E-02
For Julian Day 291, selecting COMIDA2 results # 9 of 9
         88        292          3         21   8.42E-03
For Julian Day 292, selecting COMIDA2 results # 9 of 9
         89        302          8         29   1.26E-03
For Julian Day 302, selecting COMIDA2 results # 9 of 9
         90        305          3          9   1.62E-02
For Julian Day 305, selecting COMIDA2 results # 9 of 9
         91        310         16         21   8.42E-03
For Julian Day 310, selecting COMIDA2 results # 9 of 9
         92        314         16          4   4.10E-02
For Julian Day 314, selecting COMIDA2 results # 9 of 9
         93        316         24         22   1.32E-02
For Julian Day 316, selecting COMIDA2 results # 9 of 9
         94        317         11          7   2.60E-03
For Julian Day 317, selecting COMIDA2 results # 9 of 9
         95        323         10         30   1.71E-04
For Julian Day 323, selecting COMIDA2 results # 9 of 9
         96        326         24         15   3.45E-03
For Julian Day 326, selecting COMIDA2 results # 9 of 9
         97        328          5         13   6.02E-03
For Julian Day 328, selecting COMIDA2 results # 9 of 9
         98        328         23         23   2.97E-03
For Julian Day 328, selecting COMIDA2 results # 9 of 9
         99        332         23         29   1.26E-03
For Julian Day 332, selecting COMIDA2 results # 9 of 9
        100        338         18         10   2.35E-02
For Julian Day 338, selecting COMIDA2 results # 1 of 9
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     TRIAL        DAY       HOUR        BIN     PRBMET
       101        339          8         16   1.26E-03
For Julian Day 339, selecting COMIDA2 results # 1 of 9
       102        340         23         16   1.26E-03
For Julian Day 340, selecting COMIDA2 results # 1 of 9
       103        341         13         12   1.60E-03
For Julian Day 341, selecting COMIDA2 results # 1 of 9
       104        345         14         18   2.37E-03
For Julian Day 345, selecting COMIDA2 results # 1 of 9
       105        348         11         17   1.26E-02
For Julian Day 348, selecting COMIDA2 results # 1 of 9
       106        356         14         12   1.60E-03
For Julian Day 356, selecting COMIDA2 results # 1 of 9
       107        357          3         13   6.02E-03
For Julian Day 357, selecting COMIDA2 results # 1 of 9
       108        358         15         26   3.42E-04
For Julian Day 358, selecting COMIDA2 results # 1 of 9
       109        362          4         16   1.26E-03
For Julian Day 362, selecting COMIDA2 results # 1 of 9
       110        364         14         16   1.26E-03
For Julian Day 364, selecting COMIDA2 results # 1 of 9
       111        364         24         15   3.45E-03
For Julian Day 364, selecting COMIDA2 results # 1 of 9
       112        365          6         14   7.91E-03
For Julian Day 365, selecting COMIDA2 results # 1 of 9
       113          2          4          7   2.60E-03
For Julian Day   2, selecting COMIDA2 results # 1 of 9
       114          3         13         17   1.26E-02
For Julian Day   3, selecting COMIDA2 results # 1 of 9
       115          5         11          3   6.36E-03
For Julian Day   5, selecting COMIDA2 results # 1 of 9
       116          8         24         11   8.33E-03
For Julian Day   8, selecting COMIDA2 results # 1 of 9
       117         10         11          6   3.05E-02
For Julian Day  10, selecting COMIDA2 results # 1 of 9
       118         38         22          6   3.05E-02
For Julian Day  38, selecting COMIDA2 results # 2 of 9
       119         47          5          7   2.60E-03
For Julian Day  47, selecting COMIDA2 results # 2 of 9
       120         49         17          3   6.36E-03
For Julian Day  49, selecting COMIDA2 results # 2 of 9
       121         51         12          5   4.00E-02
For Julian Day  51, selecting COMIDA2 results # 2 of 9
       122         53          6         19   3.60E-03
For Julian Day  53, selecting COMIDA2 results # 2 of 9
       123         55         23          9   1.62E-02
For Julian Day  55, selecting COMIDA2 results # 2 of 9
       124         60         18         20   2.83E-03
For Julian Day  60, selecting COMIDA2 results # 2 of 9
       125         61         11         29   1.26E-03
For Julian Day  61, selecting COMIDA2 results # 2 of 9
       126         65         17          7   2.60E-03
For Julian Day  65, selecting COMIDA2 results # 2 of 9
       127         67         22         12   1.60E-03
For Julian Day  67, selecting COMIDA2 results # 2 of 9
       128         69         13          2   2.54E-03
For Julian Day  69, selecting COMIDA2 results # 2 of 9
       129         74         16          5   4.00E-02
For Julian Day  74, selecting COMIDA2 results # 2 of 9
       130         80         17         39   3.14E-04
For Julian Day  80, selecting COMIDA2 results # 2 of 9
       131         80         18         39   3.14E-04
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For Julian Day  80, selecting COMIDA2 results # 2 of 9
        132         80         19         38   1.71E-04
For Julian Day  80, selecting COMIDA2 results # 2 of 9
        133         80         20         37   2.28E-04
For Julian Day  80, selecting COMIDA2 results # 2 of 9
        134         80         21         35   1.03E-03
For Julian Day  80, selecting COMIDA2 results # 2 of 9
        135         88         14         28   9.70E-04
For Julian Day  88, selecting COMIDA2 results # 2 of 9
        136         88         15         27   5.71E-04
For Julian Day  88, selecting COMIDA2 results # 2 of 9
        137         94         24         21   8.42E-03
For Julian Day  94, selecting COMIDA2 results # 3 of 9
        138         95         18          4   4.10E-02
For Julian Day  95, selecting COMIDA2 results # 3 of 9
        139        101         10         23   2.97E-03
For Julian Day 101, selecting COMIDA2 results # 3 of 9
        140        104         15          2   2.54E-03
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        141        110          2         14   7.91E-03
For Julian Day 110, selecting COMIDA2 results # 3 of 9
        142        110          6         15   3.45E-03
For Julian Day 110, selecting COMIDA2 results # 3 of 9
        143        113         24          6   3.05E-02
For Julian Day 113, selecting COMIDA2 results # 3 of 9
        144        116          1         17   1.26E-02
For Julian Day 116, selecting COMIDA2 results # 3 of 9
        145        118          6         13   6.02E-03
For Julian Day 118, selecting COMIDA2 results # 3 of 9
        146        122         12         40   5.42E-04
For Julian Day 122, selecting COMIDA2 results # 3 of 9
        147        124          4         10   2.35E-02
For Julian Day 124, selecting COMIDA2 results # 3 of 9
        148        127         24         20   2.83E-03
For Julian Day 127, selecting COMIDA2 results # 3 of 9
        149        138          5         11   8.33E-03
For Julian Day 138, selecting COMIDA2 results # 4 of 9
        150        139         14          2   2.54E-03
For Julian Day 139, selecting COMIDA2 results # 4 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
        151        140         16         22   1.32E-02
For Julian Day 140, selecting COMIDA2 results # 4 of 9
        152        141         12         18   2.37E-03
For Julian Day 141, selecting COMIDA2 results # 4 of 9
        153        148         13         25   2.57E-04
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        154        148         23         19   3.60E-03
For Julian Day 148, selecting COMIDA2 results # 4 of 9
        155        149         16          1   5.17E-03
For Julian Day 149, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 22.00 HOURS

WARNING!! WARNING!! WARNING!! WARNING!!

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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.81 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  23.58 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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For Julian Day 149, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
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For Julian Day 149, selecting COMIDA2 results # 4 of 9
 DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS
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  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH
THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:


FRACTION OF THE PEOPLE

               ------
    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
                1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC"
DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN
LATER SECTIONS.

13-NOV-09  14:05:02    PAGE   1          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  3.40E+00  2.95E+00  6.56E+00
8.08E+00  1.09E+01  1.18E+01  2.07E+01  3.52E-05   69
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.34E+00  1.12E+00  2.36E+00
2.95E+00  3.48E+00  3.72E+00  4.76E+00  3.71E-04    2

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  7.59E+01  6.23E+01  1.37E+02
1.71E+02  2.69E+02  3.07E+02  4.62E+02  3.52E-05   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.41E-06  3.04E-06  5.95E-06
7.26E-06  1.03E-05  1.07E-05  1.21E-05  3.71E-04    2
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  1 OF  8:
    NCF

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  14:05:02    PAGE   2          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  2.57E-01  2.17E-01  4.85E-01
5.74E-01  8.80E-01  1.04E+00  1.37E+00  5.99E-04  116
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.07E-01  9.67E-02  1.94E-01
2.43E-01  3.18E-01  3.32E-01  3.91E-01  3.71E-04    2
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  5.50E+00  4.95E+00  1.02E+01
1.27E+01  2.04E+01  2.23E+01  2.92E+01  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.73E-07  2.39E-07  5.14E-07
6.41E-07  7.76E-07  8.18E-07  1.00E-06  3.71E-04    2
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  14:05:02    PAGE   3          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  3.15E+00  2.51E+00  6.07E+00
7.66E+00  1.07E+01  1.15E+01  1.95E+01  3.52E-05   69
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.23E+00  1.07E+00  2.25E+00
2.83E+00  3.16E+00  3.24E+00  4.39E+00  1.03E-06   74

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  7.04E+01  5.66E+01  1.29E+02
1.60E+02  2.37E+02  2.72E+02  4.36E+02  3.52E-05   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.13E-06  2.82E-06  5.61E-06
6.92E-06  8.36E-06  9.04E-06  1.11E-05  3.71E-04    2
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L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  7.04E+01  5.66E+01  1.29E+02
1.60E+02  2.37E+02  2.72E+02  4.36E+02  3.52E-05   69
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  6.96E+01  5.63E+01  1.29E+02
1.60E+02  2.37E+02  2.72E+02  4.35E+02  3.52E-05   69
 TOTAL INGESTION PATHWAYS DOSE          1.0000  8.00E-01  2.57E-01  2.45E+00
3.15E+00  4.35E+00  5.00E+00  6.93E+00  2.85E-05   82
 LONG-TERM GROUNDSHINE DOSE             1.0000  6.74E+01  5.55E+01  1.27E+02
1.57E+02  2.37E+02  2.72E+02  4.22E+02  3.52E-05   69
 LONG-TERM RESUSPENSION DOSE            1.0000  2.17E+00  1.81E+00  4.29E+00
5.41E+00  7.90E+00  9.06E+00  1.36E+01  3.52E-05   69
 WATER INGESTION DOSE                   1.0000  3.79E-02  3.22E-02  6.64E-02
8.46E-02  1.05E-01  1.09E-01  1.28E-01  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    0.6222  9.95E-03  6.81E-03  2.52E-02
3.15E-02  4.26E-02  4.86E-02  7.18E-02  2.19E-04   30
 FARM-DEPENDENT DECONTAMINATION DOSE    0.6222  1.04E-06  7.33E-07  2.59E-06
3.35E-06  5.15E-06  5.47E-06  7.44E-06  2.19E-04   30
 INGESTION OF GRAINS                    1.0000  2.35E-02  5.85E-03  7.84E-02
1.01E-01  1.16E-01  1.24E-01  1.97E-01  2.85E-05   82
 INGESTION OF LEAF VEG                  1.0000  3.83E-02  7.35E-03  1.16E-01
1.61E-01  3.34E-01  4.19E-01  8.54E-01  2.85E-05   82
 INGESTION OF ROOT CROPS                1.0000  3.10E-02  7.69E-03  1.05E-01
1.27E-01  1.96E-01  2.05E-01  2.56E-01  2.85E-05   82
 INGESTION OF FRUITS                    1.0000  4.57E-02  1.14E-02  1.41E-01
1.96E-01  2.94E-01  3.07E-01  3.77E-01  2.85E-05   82
 INGESTION OF LEGUMES                   1.0000  2.65E-02  6.55E-03  8.72E-02
1.05E-01  1.30E-01  1.43E-01  2.19E-01  2.85E-05   82
 INGESTION OF BEEF                      1.0000  2.44E-01  7.91E-02  7.57E-01
1.00E+00  1.15E+00  1.22E+00  1.71E+00  1.09E-04   38
 INGESTION OF MILK                      1.0000  2.81E-01  7.19E-02  9.11E-01
1.10E+00  1.49E+00  1.70E+00  2.06E+00  9.42E-04   18
 INGESTION OF POULTRY                   1.0000  5.85E-02  1.73E-02  1.66E-01
2.38E-01  4.30E-01  5.40E-01  1.08E+00  2.85E-05   82
 INGESTION OF OTHER MEAT CROPS          1.0000  1.41E-02  7.37E-03  3.43E-02
4.64E-02  7.81E-02  9.81E-02  2.05E-01  2.85E-05   82

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   0.8763  2.32E+05  1.56E+05  4.00E+05
4.56E+05  1.04E+06  1.08E+06  1.36E+06  7.87E-05    3
 POP.-DEPENDENT COSTS                   0.6222  2.24E+05  1.54E+05  3.97E+05
4.51E+05 NOT-FOUND NOT-FOUND  1.24E+06  1.20E-02    3
 FARM-DEPENDENT COSTS                   0.8763  7.50E+03  1.21E+03  2.11E+04
2.63E+04  7.60E+04  9.21E+04  1.76E+05  3.71E-04    2
 POP.-DEPENDENT DECONTAMINATION COST    0.6222  4.79E+04  3.89E+04  8.51E+04
9.30E+04 NOT-FOUND NOT-FOUND  2.64E+05  1.20E-02    3
 FARM-DEPENDENT DECONTAMINATION COST    0.6222  3.84E+01  2.59E+01  8.46E+01
9.28E+01 NOT-FOUND NOT-FOUND  2.11E+02  1.20E-02    3
 POP.-DEPENDENT INTERDICTION COST       0.6222  1.76E+05  1.42E+05  3.90E+05
4.39E+05 NOT-FOUND NOT-FOUND  9.73E+05  1.20E-02    3
 FARM-DEPENDENT INTERDICTION COST       0.8702  5.90E+03  9.63E+02  1.46E+04
1.99E+04  5.52E+04  6.73E+04  1.39E+05  3.71E-04    2
 POP.-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 FARM-DEPENDENT CONDEMNATION COST       0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 EMERGENCY PHASE COST                   0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  14:05:02    PAGE   4          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                   NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
```

ECONOMIC COST MEASURES ($) 0-80.5 km

MILK DISPOSAL COST					0.7677	3.63E+01	1.11E+00	7.60E+01	1.25E+02	3.23E+02	4.78E+02
1.09E+04	1.43E-04	2									
CROP DISPOSAL COST					0.7616	1.52E+03	2.22E+02	3.74E+03	4.55E+03	1.37E+04	1.86E+04
3.62E+04	3.73E-04	2									

XXXX

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1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH
THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:


FRACTION OF THE PEOPLE

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    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
               1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC"
DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN
LATER SECTIONS.

13-NOV-09  14:05:02    PAGE   5          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  3.03E+04  1.81E+04  7.07E+04
9.42E+04  1.54E+05 NOT-FOUND  1.76E+05  6.45E-03   36
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.85E+03  4.42E+03  8.04E+03
9.71E+03  1.21E+04  1.31E+04  1.75E+04  5.14E-04   90

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  4.86E+05  2.65E+05  1.22E+06
1.67E+06  2.09E+06  2.14E+06  2.61E+06  2.35E-05   42

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.19E-02  1.07E-02  1.92E-02
2.23E-02  3.02E-02  3.30E-02  4.43E-02  5.14E-04   90
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
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13-NOV-09  14:05:02    PAGE   6          PROB                          QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.9900  9.90E+01  4.89E+01  2.71E+02
3.18E+02  3.89E+02  4.24E+02  5.78E+02  5.32E-06   72
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.93E+04  1.21E+04  4.31E+04
6.38E+04  9.45E+04 NOT-FOUND  1.24E+05  6.45E-03   36
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.52E+03  3.98E+03  7.67E+03
9.19E+03  1.18E+04  1.28E+04  1.71E+04  5.14E-04   90
 ERL FAT/TOTAL              0-16.1 km  0.9900  9.90E+01  4.89E+01  2.71E+02
3.18E+02  3.89E+02  4.24E+02  5.78E+02  5.32E-06   72

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.9900  1.45E-01  1.20E-01  1.96E-01
2.05E-01  2.19E-01  2.25E-01  2.44E-01  6.85E-04   47
 ERL FAT/TOTAL             0.3-1.6 km  0.8499  1.85E-02  5.93E-03  5.12E-02
5.41E-02  6.15E-02  6.50E-02  6.90E-02  2.37E-03   53
 ERL FAT/TOTAL             1.6-3.2 km  0.3521  4.67E-04  0.00E+00  1.44E-03
2.24E-03  8.54E-03 NOT-FOUND  9.45E-03  7.91E-03   59

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  2.38E+05  1.32E+05  5.84E+05
8.15E+05  1.09E+06  1.15E+06  1.43E+06  3.70E-04   57

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.9900  5.92E-03  2.92E-03  1.58E-02
2.06E-02  2.41E-02  2.58E-02  3.45E-02  5.32E-06   72
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.16E-02  1.06E-02  1.90E-02
2.22E-02  3.01E-02  3.28E-02  4.37E-02  5.14E-04   90
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  14:05:02    PAGE   7          PROB                          QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.10E+04  4.90E+03  2.87E+04
3.47E+04  5.03E+04  5.18E+04  5.87E+04  2.28E-04  106
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.34E+02  3.15E+02  4.44E+02
5.09E+02  6.28E+02  6.88E+02  9.63E+02  4.91E-06  146

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  2.48E+05  1.19E+05  6.39E+05
7.82E+05  1.05E+06  1.09E+06  1.34E+06  2.28E-04  106

POPULATION WEIGHTED RISK
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 CAN FAT/TOTAL                0-16.1 km  0.9684  3.61E-04  3.31E-04  5.96E-04
7.02E-04  9.52E-04  1.02E-03  1.39E-03  4.91E-06  146

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  2.48E+05  1.19E+05  6.39E+05
7.82E+05  1.05E+06  1.09E+06  1.34E+06  2.28E-04  106
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.95E+05  8.63E+04  5.23E+05
6.13E+05  7.31E+05  7.52E+05  9.38E+05  2.35E-05   42
 TOTAL INGESTION PATHWAYS DOSE          1.0000  2.72E+03  2.52E+03  4.19E+03
4.96E+03  5.73E+03  6.09E+03  7.58E+03  4.00E-04  107
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.87E+05  8.34E+04  4.94E+05
5.77E+05  7.19E+05  7.39E+05  9.08E+05  2.35E-05   42
 LONG-TERM RESUSPENSION DOSE            1.0000  8.04E+03  2.88E+03  2.11E+04
2.27E+04  2.68E+04  2.88E+04  3.43E+04  3.52E-05   41
 WATER INGESTION DOSE                   1.0000  2.55E+03  2.34E+03  4.08E+03
4.86E+03  5.71E+03  6.06E+03  7.57E+03  4.00E-04  107
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.98E+04  2.57E+04  1.21E+05
1.76E+05  3.16E+05  3.36E+05  4.38E+05  2.28E-04  106
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.44E+01  1.48E+01  8.86E+01
1.04E+02  1.22E+02  1.31E+02  1.75E+02  2.67E-04  151
 INGESTION OF GRAINS                    1.0000  3.52E+00  1.56E+00  8.48E+00
1.22E+01  2.21E+01  2.43E+01  3.60E+01  2.28E-04   59
 INGESTION OF LEAF VEG                  1.0000  2.43E+01  1.05E+01  6.11E+01
7.25E+01  8.84E+01  9.62E+01  1.24E+02  8.56E-05    2
 INGESTION OF ROOT CROPS                1.0000  1.47E+01  6.23E+00  3.67E+01
4.60E+01  5.39E+01  5.60E+01  7.40E+01  8.56E-05    2
 INGESTION OF FRUITS                    1.0000  1.36E+01  6.03E+00  3.32E+01
3.98E+01  5.38E+01  5.78E+01  7.41E+01  2.28E-04   59
 INGESTION OF LEGUMES                   1.0000  2.81E+01  1.30E+01  7.07E+01
9.04E+01  1.09E+02  1.14E+02  1.50E+02  8.56E-05    2
 INGESTION OF BEEF                      1.0000  4.18E+01  1.08E+01  1.24E+02
2.06E+02  3.58E+02  4.07E+02  5.26E+02  1.66E-03  118
 INGESTION OF MILK                      1.0000  3.38E+01  1.15E+01  1.04E+02
1.59E+02  2.75E+02  3.27E+02  5.54E+02  5.71E-05  128
 INGESTION OF POULTRY                   1.0000  1.00E+01  2.83E+00  3.26E+01
4.05E+01  6.43E+01  7.12E+01  1.01E+02  3.46E-06   74
 INGESTION OF OTHER MEAT CROPS          1.0000  4.26E+00  1.21E+00  1.28E+01
1.93E+01  3.06E+01  3.24E+01  4.62E+01  7.56E-05   89

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  1.63E+11  8.69E+10  4.20E+11
5.46E+11  7.31E+11  7.64E+11  9.04E+11  3.42E-04    2
 POP.-DEPENDENT COSTS                   1.0000  1.63E+11  8.63E+10  4.20E+11
5.46E+11  7.31E+11  7.64E+11  9.04E+11  3.42E-04    2
 FARM-DEPENDENT COSTS                   1.0000  3.81E+08  2.08E+08  1.01E+09
1.06E+09  1.20E+09  1.27E+09  1.46E+09  8.28E-04  150
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  3.72E+10  1.50E+10  1.02E+11
1.08E+11  1.23E+11  1.30E+11  1.98E+11  2.85E-05  150
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  3.48E+07  1.63E+07  8.16E+07
9.50E+07  1.17E+08  1.27E+08  1.55E+08  8.28E-04  150
 POP.-DEPENDENT INTERDICTION COST       1.0000  1.17E+11  5.97E+10  3.20E+11
3.88E+11  5.34E+11  5.70E+11  7.67E+11  2.28E-04  106
 FARM-DEPENDENT INTERDICTION COST       1.0000  3.01E+08  1.34E+08  7.47E+08
8.08E+08  9.70E+08  1.04E+09  1.24E+09  8.28E-04  150
 POP.-DEPENDENT CONDEMNATION COST       1.0000  7.91E+09  6.25E+09  1.27E+10
1.63E+10  5.02E+10  5.27E+10  6.34E+10  3.72E-04   71
 FARM-DEPENDENT CONDEMNATION COST       1.0000  6.64E+06  5.24E+06  1.17E+07
1.52E+07  2.73E+07  5.03E+07  5.56E+07  3.88E-05  135
 EMERGENCY PHASE COST                   1.0000  1.60E+08  7.42E+07  3.30E+08
5.06E+08  1.16E+09  1.28E+09  2.43E+09  2.28E-04  106
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
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                                PEAK      PEAK  PEAK
                                             NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                          1.0000  1.02E+06  2.23E+05  2.80E+06
3.40E+06  5.02E+06  5.27E+06  6.26E+06  4.09E-04    2
 CROP DISPOSAL COST                          1.0000  3.71E+07  3.50E+07  5.82E+07
6.39E+07  7.51E+07  7.91E+07  9.89E+07  2.57E-04  150
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XXXX

XXXX

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    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  14:05:02    PAGE  10          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.8899  9.55E+00  5.64E+00  2.41E+01
2.89E+01  3.14E+01  3.21E+01  3.97E+01  5.32E-06   72
 CAN FAT/TOTAL               0-80.5 km  1.0000  7.13E+03  5.19E+03  1.34E+04
1.87E+04  3.34E+04  3.59E+04  6.05E+04  2.28E-04  106
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.65E+03  1.40E+03  2.77E+03
3.19E+03  4.05E+03  4.50E+03  5.38E+03  5.14E-04   90
 ERL FAT/TOTAL               0-16.1 km  0.8899  9.55E+00  5.64E+00  2.41E+01
2.89E+01  3.14E+01  3.21E+01  3.97E+01  5.32E-06   72

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.8899  4.45E-02  3.06E-02  1.00E-01
1.04E-01  1.13E-01  1.17E-01  1.21E-01  2.37E-03   53
 ERL FAT/TOTAL              0.3-1.6 km  0.1481  7.13E-05  0.00E+00  2.43E-04
5.39E-04  1.48E-03 NOT-FOUND  1.78E-03  7.91E-03   59
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  8.45E+04  5.37E+04  2.07E+05
2.69E+05  5.23E+05  5.50E+05  6.88E+05  2.28E-04  106

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.8899  5.73E-04  3.54E-04  1.19E-03
1.35E-03  1.81E-03  2.01E-03  2.38E-03  5.32E-06   72
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.22E-03  3.82E-03  6.86E-03
8.11E-03  1.07E-02  1.13E-02  1.38E-02  5.14E-04   90
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  14:05:02    PAGE  11          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.07E+03  2.49E+03  1.23E+04
1.57E+04  2.12E+04  2.22E+04  2.66E+04  2.90E-04   56
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.13E+02  2.99E+02  4.76E+02
5.19E+02  5.81E+02  6.10E+02  9.79E+02  6.20E-06   47

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.12E+05  5.39E+04  3.10E+05
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3.58E+05  5.00E+05  5.16E+05  5.85E+05  2.90E-04   56

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  3.55E-04  3.22E-04  5.19E-04
5.45E-04  6.10E-04  6.41E-04  1.07E-03  6.20E-06   47

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  1.12E+05  5.39E+04  3.10E+05
3.58E+05  5.00E+05  5.16E+05  5.85E+05  2.90E-04   56
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  9.69E+04  4.15E+04  2.67E+05
3.15E+05  3.74E+05  4.03E+05  5.30E+05  2.90E-04   56
 TOTAL INGESTION PATHWAYS DOSE           1.0000  3.51E+02  3.06E+02  5.97E+02
6.98E+02  7.87E+02  8.28E+02  1.24E+03  3.43E-05   67
 LONG-TERM GROUNDSHINE DOSE              1.0000  8.62E+04  3.81E+04  2.32E+05
2.92E+05  3.44E+05  3.65E+05  4.70E+05  2.90E-04   56
 LONG-TERM RESUSPENSION DOSE             1.0000  1.07E+04  4.40E+03  3.16E+04
3.64E+04  5.01E+04  5.19E+04  6.01E+04  2.90E-04   56
 WATER INGESTION DOSE                    1.0000  1.96E+02  1.77E+02  3.21E+02
3.64E+02  4.85E+02  5.12E+02  5.88E+02  2.43E-04    3
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  1.44E+04  1.05E+04  3.03E+04
4.29E+04  7.51E+04  8.05E+04  1.14E+05  2.28E-04  106
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  9.32E+00  4.53E+00  2.50E+01
3.06E+01  3.42E+01  3.59E+01  5.09E+01  2.74E-05   71
 INGESTION OF GRAINS                     1.0000  4.21E+00  1.06E+00  1.27E+01
1.65E+01  2.18E+01  2.30E+01  3.80E+01  6.87E-06   79
 INGESTION OF LEAF VEG                   1.0000  1.24E+01  5.13E+00  2.77E+01
4.13E+01  1.08E+02  1.19E+02  2.35E+02  6.87E-06   79
 INGESTION OF ROOT CROPS                 1.0000  6.52E+00  2.61E+00  2.01E+01
2.29E+01  3.04E+01  3.19E+01  5.03E+01  6.87E-06   79
 INGESTION OF FRUITS                     1.0000  9.38E+00  3.75E+00  2.87E+01
3.33E+01  4.39E+01  4.95E+01  7.36E+01  6.87E-06   79
 INGESTION OF LEGUMES                    1.0000  8.96E+00  4.30E+00  2.20E+01
2.49E+01  3.09E+01  3.21E+01  4.55E+01  6.87E-06   79
 INGESTION OF BEEF                       1.0000  5.82E+01  2.74E+01  1.35E+02
1.79E+02  3.09E+02  3.52E+02  4.33E+02  1.66E-03  118
 INGESTION OF MILK                       1.0000  3.78E+01  1.65E+01  9.38E+01
1.29E+02  2.29E+02  2.64E+02  3.22E+02  3.71E-04  121
 INGESTION OF POULTRY                    1.0000  1.32E+01  6.54E+00  3.15E+01
3.98E+01  7.16E+01  7.71E+01  1.45E+02  6.87E-06   79
 INGESTION OF OTHER MEAT CROPS           1.0000  4.47E+00  2.18E+00  1.17E+01
1.55E+01  2.19E+01  2.34E+01  3.20E+01  3.81E-05   89

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  5.27E+10  2.57E+10  1.55E+11
2.11E+11  2.53E+11  2.74E+11  3.74E+11  3.42E-04    2
 POP.-DEPENDENT COSTS                    1.0000  5.26E+10  2.56E+10  1.55E+11
2.11E+11  2.53E+11  2.74E+11  3.74E+11  3.42E-04    2
 FARM-DEPENDENT COSTS                    1.0000  1.65E+08  7.78E+07  4.66E+08
5.80E+08  8.05E+08  8.98E+08  1.09E+09  8.56E-05    2
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.30E+10  6.42E+09  3.33E+10
5.23E+10  7.53E+10  8.07E+10  1.20E+11  3.42E-04    2
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.38E+07  6.18E+06  3.38E+07
3.90E+07  5.14E+07  5.37E+07  7.06E+07  8.56E-05    2
 POP.-DEPENDENT INTERDICTION COST        1.0000  3.88E+10  1.78E+10  1.06E+11
1.40E+11  2.09E+11  2.17E+11  2.54E+11  3.42E-04    2
 FARM-DEPENDENT INTERDICTION COST        1.0000  1.34E+08  5.12E+07  4.00E+08
5.26E+08  7.21E+08  7.52E+08  9.65E+08  8.56E-05    2
 POP.-DEPENDENT CONDEMNATION COST        1.0000  6.60E+08  5.52E+08  1.26E+09
1.65E+09  2.42E+09  2.72E+09  4.10E+09  5.18E-04   27
 FARM-DEPENDENT CONDEMNATION COST        0.9900  2.63E+05  2.24E+05  5.17E+05
7.37E+05  1.12E+06  1.24E+06  1.78E+06  4.29E-04    3
 EMERGENCY PHASE COST                    1.0000  2.26E+07  1.40E+07  5.60E+07
7.07E+07  8.12E+07  8.62E+07  3.74E+08  4.00E-04  109
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 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  14:05:02    PAGE  12          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  5.68E+05  4.35E+04  1.65E+06
2.38E+06  3.73E+06  4.26E+06  5.60E+06  1.43E-04    2
 CROP DISPOSAL COST                     1.0000  1.70E+07  1.21E+07  3.74E+07
4.77E+07  5.79E+07  6.21E+07  8.18E+07  8.28E-04    2
XXXX
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XXXX
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RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  14:05:02    PAGE  14          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  7.32E+02  5.99E+02  1.34E+03
1.79E+03  3.27E+03  3.48E+03  4.60E+03  2.28E-04  106
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.55E+02  2.34E+02  4.12E+02
4.94E+02  5.54E+02  5.80E+02  7.13E+02  1.19E-04   87
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.07E+04  7.98E+03  2.20E+04
2.81E+04  5.25E+04  5.53E+04  7.56E+04  2.28E-04  106

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  6.52E-04  6.13E-04  1.04E-03
1.10E-03  1.26E-03  1.33E-03  1.82E-03  1.19E-04   87
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  14:05:02    PAGE  15          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.90E+03  8.88E+02  5.16E+03
6.71E+03  1.05E+04  1.11E+04  1.60E+04  2.35E-05   42
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.24E+02  1.09E+02  1.86E+02
2.06E+02  2.28E+02  2.38E+02  3.06E+02  1.19E-04  151
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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  4.17E+04  2.01E+04  1.10E+05
1.67E+05  2.71E+05  3.02E+05  3.49E+05  2.35E-05   42

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.44E-04  2.23E-04  3.35E-04
3.61E-04  4.30E-04  4.64E-04  6.94E-04  1.19E-04  151

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  4.17E+04  2.01E+04  1.10E+05
1.67E+05  2.71E+05  3.02E+05  3.49E+05  2.35E-05   42
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  4.06E+04  1.83E+04  1.09E+05
1.64E+05  2.71E+05  3.02E+05  3.48E+05  2.35E-05   42
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.27E+02  6.60E+01  3.12E+02
3.67E+02  5.19E+02  5.65E+02  7.09E+02  8.28E-04  150
 LONG-TERM GROUNDSHINE DOSE             1.0000  3.66E+04  1.60E+04  1.03E+05
1.39E+05  2.09E+05  2.18E+05  3.14E+05  2.35E-05   42
 LONG-TERM RESUSPENSION DOSE            1.0000  3.96E+03  1.68E+03  1.08E+04
1.64E+04  2.71E+04  3.02E+04  3.42E+04  2.35E-05   42
 WATER INGESTION DOSE                   1.0000  2.57E+01  2.35E+01  4.16E+01
5.00E+01  6.03E+01  6.54E+01  7.74E+01  4.00E-04  107
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  9.36E+02  8.32E+02  1.47E+03
1.80E+03  2.90E+03  3.34E+03  9.26E+03  3.42E-04    2
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.76E-01  3.14E-01  1.00E+00
1.44E+00  2.38E+00  2.70E+00  3.43E+00  1.14E-04  107
 INGESTION OF GRAINS                    1.0000  3.64E+00  4.92E-01  1.18E+01
1.48E+01  2.28E+01  2.60E+01  3.28E+01  8.28E-04  150
 INGESTION OF LEAF VEG                  1.0000  7.44E+00  1.37E+00  2.19E+01
3.19E+01  7.31E+01  8.09E+01  1.62E+02  5.20E-06   62
 INGESTION OF ROOT CROPS                1.0000  4.92E+00  7.19E-01  1.59E+01
2.15E+01  3.09E+01  3.39E+01  4.32E+01  8.28E-04  150
 INGESTION OF FRUITS                    1.0000  7.25E+00  1.27E+00  2.50E+01
3.19E+01  4.62E+01  5.19E+01  6.34E+01  8.28E-04  150
 INGESTION OF LEGUMES                   1.0000  4.63E+00  1.27E+00  1.37E+01
1.82E+01  2.65E+01  3.02E+01  3.73E+01  8.28E-04  150
 INGESTION OF BEEF                      1.0000  3.88E+01  1.54E+01  1.07E+02
1.34E+02  2.10E+02  2.33E+02  3.14E+02  8.28E-04  150
 INGESTION OF MILK                      1.0000  2.29E+01  1.10E+01  6.27E+01
7.51E+01  9.85E+01  1.04E+02  1.24E+02  4.57E-04  150
 INGESTION OF POULTRY                   1.0000  9.22E+00  3.74E+00  2.57E+01
3.46E+01  5.36E+01  5.87E+01  1.17E+02  5.20E-06   62
 INGESTION OF OTHER MEAT CROPS          1.0000  2.46E+00  1.20E+00  6.38E+00
8.04E+00  1.07E+01  1.13E+01  2.11E+01  5.20E-06   62

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.08E+09  3.78E+09  7.59E+09
1.09E+10  3.41E+10  3.82E+10  1.68E+11  3.42E-04    2
 POP.-DEPENDENT COSTS                   1.0000  5.04E+09  3.74E+09  7.54E+09
1.09E+10  3.41E+10  3.82E+10  1.67E+11  3.42E-04    2
 FARM-DEPENDENT COSTS                   1.0000  3.96E+07  1.37E+07  1.23E+08
1.69E+08  2.63E+08  3.02E+08  4.21E+08  8.56E-05    2
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.14E+09  9.35E+08  1.75E+09
2.92E+09  7.75E+09  8.47E+09  3.58E+10  3.42E-04    2
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.76E+06  8.01E+05  4.73E+06
6.08E+06  8.71E+06  9.89E+06  1.74E+07  8.56E-05    2
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.86E+09  3.10E+09  6.15E+09
1.08E+10  2.28E+10  2.55E+10  1.32E+11  3.42E-04    2
 FARM-DEPENDENT INTERDICTION COST       1.0000  3.29E+07  6.85E+06  1.05E+08
1.40E+08  2.30E+08  2.61E+08  3.83E+08  8.56E-05    2
 POP.-DEPENDENT CONDEMNATION COST       0.9390  3.47E+07  1.27E+07  1.05E+08
1.11E+08 NOT-FOUND NOT-FOUND  1.25E+08  1.17E-02    3
 FARM-DEPENDENT CONDEMNATION COST       0.9159  9.80E+03  5.89E+03  9.61E+03
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5.66E+04 7.41E+04 7.61E+04 7.73E+04 3.24E-03   4
 EMERGENCY PHASE COST   1.0000 1.93E+06 1.54E+06 3.72E+06
4.84E+06 6.60E+06 7.13E+06 8.66E+06 8.56E-05   59
 INTERMEDIATE PHASE COST   0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
13-NOV-09 14:05:02   PAGE 16   PROB   QUANTILES
                          PEAK   PEAK PEAK
                                       NON-ZERO   MEAN   50TH   90TH   95TH
     99TH   99.5TH   CONS   PROB TRIAL
ECONOMIC COST MEASURES ($)   0-80.5 km
 MILK DISPOSAL COST   1.0000 2.38E+05 1.32E+04 8.44E+05
1.20E+06 2.26E+06 2.71E+06 4.24E+06 2.67E-04 151
 CROP DISPOSAL COST   1.0000 4.63E+06 3.39E+06 1.05E+07
1.35E+07 2.63E+07 3.07E+07 4.43E+07 3.04E-06   42
XXXX

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SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  14:05:02    PAGE  18          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.2428  9.07E-02  0.00E+00  1.86E-01
6.49E-01  1.46E+00  1.74E+00  3.52E+00  2.65E-03    2
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.57E+03  1.14E+03  3.19E+03
3.92E+03  7.06E+03  7.70E+03  1.04E+04  5.99E-04  116
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.07E+02  3.53E+02  7.00E+02
8.37E+02  1.07E+03  1.12E+03  1.35E+03  3.71E-04    2
 ERL FAT/TOTAL               0-16.1 km  0.2428  9.07E-02  0.00E+00  1.86E-01
6.49E-01  1.46E+00  1.74E+00  3.52E+00  2.65E-03    2

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.2428  4.37E-04  0.00E+00  1.16E-03
3.15E-03  4.49E-03 NOT-FOUND  1.29E-02  5.17E-03    2
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.45E+04  2.35E+04  7.59E+04
1.03E+05  1.39E+05  1.58E+05  2.49E+05  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.2428  5.44E-06  0.00E+00  9.79E-06
4.09E-05  8.47E-05  9.28E-05  2.11E-04  2.65E-03    2
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.04E-03  9.83E-04  1.66E-03
2.03E-03  2.60E-03  2.89E-03  3.45E-03  3.71E-04    2
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  14:05:02    PAGE  19          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.38E+03  2.49E+03  1.32E+04
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1.69E+04  2.17E+04  2.28E+04  2.65E+04  5.99E-04   86
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.22E+02  2.08E+02  3.07E+02
3.17E+02  3.40E+02  3.50E+02  5.04E+02  1.55E-06   29

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.20E+05  5.40E+04  3.19E+05
3.74E+05  5.09E+05  5.29E+05  5.94E+05  5.99E-04   86

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.99E-04  3.58E-04  6.17E-04
7.00E-04  7.62E-04  7.90E-04  8.44E-04  1.40E-03  143

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.20E+05  5.40E+04  3.19E+05
3.74E+05  5.09E+05  5.29E+05  5.94E+05  5.99E-04   86
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.15E+05  4.77E+04  3.13E+05
3.64E+05  5.03E+05  5.18E+05  5.68E+05  5.99E-04   86
 TOTAL INGESTION PATHWAYS DOSE          1.0000  3.78E+02  3.28E+02  6.57E+02
7.40E+02  8.95E+02  9.71E+02  1.11E+03  9.85E-05   30
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.13E+05  4.65E+04  3.08E+05
3.45E+05  4.47E+05  5.00E+05  5.56E+05  5.99E-04   86
 LONG-TERM RESUSPENSION DOSE            1.0000  2.53E+03  9.96E+02  7.19E+03
8.45E+03  1.04E+04  1.07E+04  1.35E+04  2.35E-05   33
 WATER INGESTION DOSE                   1.0000  3.17E+02  2.75E+02  5.57E+02
6.80E+02  8.68E+02  9.58E+02  1.07E+03  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.68E+03  3.23E+03  1.03E+04
1.34E+04  2.27E+04  2.67E+04  4.38E+04  3.52E-05   69
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.68E+00  1.65E+00  1.03E+01
1.15E+01  1.51E+01  1.69E+01  2.57E+01  1.14E-04  107
 INGESTION OF GRAINS                    1.0000  1.98E+00  7.28E-01  6.16E+00
7.68E+00  1.04E+01  1.10E+01  1.40E+01  2.00E-04    2
 INGESTION OF LEAF VEG                  1.0000  3.82E+00  1.88E+00  1.03E+01
1.28E+01  2.06E+01  2.25E+01  3.78E+01  4.12E-05   71
 INGESTION OF ROOT CROPS                1.0000  2.93E+00  1.28E+00  8.51E+00
1.03E+01  1.22E+01  1.32E+01  1.87E+01  2.00E-04    2
 INGESTION OF FRUITS                    1.0000  5.62E+00  2.72E+00  1.34E+01
1.74E+01  2.15E+01  2.24E+01  2.83E+01  8.56E-05    2
 INGESTION OF LEGUMES                   1.0000  3.43E+00  1.72E+00  8.57E+00
1.02E+01  1.15E+01  1.22E+01  1.67E+01  8.56E-05    2
 INGESTION OF BEEF                      1.0000  1.94E+01  7.69E+00  5.32E+01
7.32E+01  1.09E+02  1.15E+02  2.05E+02  6.93E-06  133
 INGESTION OF MILK                      1.0000  1.38E+01  4.33E+00  4.24E+01
6.08E+01  1.01E+02  1.04E+02  1.45E+02  5.20E-06  132
 INGESTION OF POULTRY                   1.0000  5.91E+00  3.13E+00  1.31E+01
1.61E+01  2.39E+01  2.76E+01  4.79E+01  4.12E-05   71
 INGESTION OF OTHER MEAT CROPS          1.0000  3.55E+00  1.25E+00  1.13E+01
1.50E+01  2.21E+01  2.39E+01  3.00E+01  6.56E-04  116

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  4.25E+10  2.02E+10  1.07E+11
2.00E+11  2.42E+11  2.62E+11  3.79E+11  1.11E-03   18
 POP.-DEPENDENT COSTS                   1.0000  4.22E+10  2.01E+10  1.07E+11
2.00E+11  2.42E+11  2.62E+11  3.79E+11  1.11E-03   18
 FARM-DEPENDENT COSTS                   1.0000  2.60E+08  1.40E+08  7.21E+08
7.89E+08  9.72E+08  1.02E+09  1.24E+09  7.28E-05  154
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.01E+10  4.25E+09  2.47E+10
3.55E+10  7.01E+10  7.89E+10  1.16E+11  5.87E-05   68
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.19E+07  4.80E+06  3.15E+07
3.63E+07  5.16E+07  7.02E+07  8.04E+07  9.42E-04   18
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.09E+10  1.31E+10  7.85E+10
1.18E+11  2.01E+11  2.21E+11  2.72E+11  1.11E-03   18
 FARM-DEPENDENT INTERDICTION COST       1.0000  2.14E+08  8.66E+07  6.20E+08
7.24E+08  8.63E+08  9.31E+08  1.12E+09  6.53E-04  154
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 POP.-DEPENDENT CONDEMNATION COST       1.0000  1.23E+09  9.29E+08  2.55E+09
3.25E+09  5.93E+09  7.17E+09  7.25E+09  4.11E-03  106
 FARM-DEPENDENT CONDEMNATION COST       1.0000  4.86E+05  3.19E+05  1.14E+06
1.56E+06  2.22E+06  2.38E+06  3.22E+06  1.25E-04   40
 EMERGENCY PHASE COST                   1.0000  8.34E+06  6.55E+06  1.41E+07
1.89E+07  4.91E+07  5.49E+07  6.74E+07  1.20E-03  107
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  14:05:02    PAGE  20          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  9.63E+05  2.05E+05  2.75E+06
3.37E+06  5.01E+06  5.21E+06  6.63E+06  7.28E-05  154
 CROP DISPOSAL COST                     1.0000  3.25E+07  3.17E+07  5.59E+07
6.12E+07  7.26E+07  7.58E+07  9.89E+07  7.08E-05  154
XXXX
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XXXX

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XXXX
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"EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

SOURCE TERM 6 OF 8:
LATE MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING APPLIED

COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE

13-NOV-09 14:05:02 PAGE 22 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
HEALTH EFFECTS CASES
ERL FAT/TOTAL 0-80.5 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
CAN FAT/TOTAL 0-80.5 km 1.0000 4.08E+02 3.25E+02 8.23E+02
1.03E+03 1.39E+03 1.58E+03 2.41E+03 5.99E-04 116
CAN FAT/TOTAL 0-16.1 km 1.0000 1.45E+02 1.23E+02 2.48E+02
3.00E+02 3.45E+02 3.66E+02 4.44E+02 5.14E-04 90
ERL FAT/TOTAL 0-16.1 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0

AVERAGE INDIVIDUAL RISK
ERL FAT/TOTAL 0-0.3 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
ERL FAT/TOTAL 0.3-1.6 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
ERL FAT/TOTAL 1.6-3.2 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0

POPULATION DOSE (Sv)
L-EDEWBODY TOT LIF 0-80.5 km 1.0000 7.62E+03 5.89E+03 1.58E+04
2.10E+04 3.15E+04 3.51E+04 4.89E+04 5.99E-04 116

POPULATION WEIGHTED RISK
ERL FAT/TOTAL 0-3.2 km 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
CAN FAT/TOTAL 0-16.1 km 1.0000 3.71E-04 3.31E-04 6.35E-04
7.31E-04 8.96E-04 9.78E-04 1.14E-03 5.14E-04 90
 DATE AND TIME OF RUN = MACCS2 13-NOV-09 14:05:02 VERSION 1.13.1: last revised 1/8/04, K. McFadden
"ATMOS" DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

"EARLY" DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

"CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 6 OF 8:
LATE MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

13-NOV-09 14:05:02 PAGE 23 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH

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     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.57E+03  1.20E+03  6.58E+03
9.76E+03  1.37E+04  1.58E+04  2.40E+04  5.87E-05   67
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.43E+02  1.18E+02  2.09E+02
2.30E+02  2.89E+02  3.03E+02  3.55E+02  1.55E-06   29

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.72E+04  2.65E+04  1.51E+05
2.13E+05  3.10E+05  3.31E+05  5.34E+05  5.87E-05   67

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.06E-04  2.99E-04  4.62E-04
5.25E-04  6.36E-04  6.90E-04  7.40E-04  1.77E-03   92

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  5.72E+04  2.65E+04  1.51E+05
2.13E+05  3.10E+05  3.31E+05  5.34E+05  5.87E-05   67
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  5.64E+04  2.60E+04  1.50E+05
2.13E+05  3.09E+05  3.30E+05  5.33E+05  5.87E-05   67
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.42E+02  1.10E+02  2.60E+02
3.03E+02  3.25E+02  3.36E+02  4.44E+02  1.03E-05   62
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.42E+04  2.48E+04  1.46E+05
2.11E+05  3.06E+05  3.27E+05  5.12E+05  5.87E-05   67
 LONG-TERM RESUSPENSION DOSE            1.0000  2.20E+03  9.76E+02  5.69E+03
8.28E+03  1.14E+04  1.23E+04  2.12E+04  5.87E-05   67
 WATER INGESTION DOSE                   1.0000  6.00E+01  5.18E+01  1.02E+02
1.10E+02  1.30E+02  1.39E+02  2.03E+02  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.20E+02  5.91E+02  1.25E+03
1.50E+03  2.22E+03  2.54E+03  5.44E+03  2.35E-05   70
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.67E-01  2.65E-01  1.08E+00
1.67E+00  2.68E+00  3.05E+00  4.56E+00  5.71E-05  121
 INGESTION OF GRAINS                    1.0000  2.87E+00  5.17E-01  9.55E+00
1.07E+01  1.29E+01  1.40E+01  2.31E+01  2.85E-05   26
 INGESTION OF LEAF VEG                  1.0000  4.83E+00  1.23E+00  1.47E+01
2.16E+01  3.56E+01  4.21E+01  6.22E+01  1.03E-05   62
 INGESTION OF ROOT CROPS                1.0000  3.91E+00  7.98E-01  1.17E+01
1.42E+01  2.05E+01  2.15E+01  3.03E+01  2.85E-05   26
 INGESTION OF FRUITS                    1.0000  5.99E+00  1.61E+00  1.85E+01
2.28E+01  3.07E+01  3.21E+01  4.48E+01  2.85E-05   26
 INGESTION OF LEGUMES                   1.0000  3.64E+00  1.16E+00  1.12E+01
1.35E+01  2.02E+01  2.08E+01  2.61E+01  2.85E-05   26
 INGESTION OF BEEF                      1.0000  2.87E+01  1.47E+01  7.40E+01
8.70E+01  1.14E+02  1.25E+02  2.03E+02  1.43E-04  119
 INGESTION OF MILK                      1.0000  2.05E+01  1.02E+01  5.16E+01
6.23E+01  7.68E+01  8.11E+01  1.13E+02  1.43E-04  119
 INGESTION OF POULTRY                   1.0000  8.11E+00  3.66E+00  2.03E+01
2.88E+01  4.34E+01  5.03E+01  7.45E+01  1.03E-05   62
 INGESTION OF OTHER MEAT CROPS          1.0000  3.20E+00  1.37E+00  9.63E+00
1.20E+01  1.85E+01  2.05E+01  2.48E+01  2.00E-04   96

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.81E+09  4.02E+09  1.09E+10
1.56E+10  3.31E+10  3.69E+10  1.24E+11  3.52E-05   69
 POP.-DEPENDENT COSTS                   1.0000  5.70E+09  3.95E+09  1.08E+10
1.55E+10  3.31E+10  3.69E+10  1.24E+11  3.52E-05   69
 FARM-DEPENDENT COSTS                   1.0000  1.08E+08  3.89E+07  3.32E+08
4.02E+08  6.99E+08  7.26E+08  8.92E+08  1.09E-04  154
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.30E+09  9.49E+08  2.85E+09
3.94E+09  7.56E+09  8.22E+09  2.66E+10  3.52E-05   69
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  2.12E+06  8.04E+05  6.02E+06
8.06E+06  1.07E+07  1.12E+07  1.81E+07  6.93E-06   69
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.26E+09  3.07E+09  8.92E+09
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1.31E+10 2.41E+10 2.96E+10 9.74E+10 3.52E-05 69
 FARM-DEPENDENT INTERDICTION COST 1.0000 9.15E+07 2.25E+07 3.00E+08
3.60E+08 5.99E+08 7.11E+08 8.34E+08 1.09E-04 154
 POP.-DEPENDENT CONDEMNATION COST 1.0000 1.41E+08 1.04E+08 3.41E+08
4.01E+08 5.74E+08 6.64E+08 1.05E+09 6.77E-04 2
 FARM-DEPENDENT CONDEMNATION COST 0.9635 3.25E+04 8.60E+03 7.73E+04
8.25E+04 9.59E+04 1.29E+05 2.90E+05 9.22E-04 2
 EMERGENCY PHASE COST 1.0000 1.55E+06 1.09E+06 3.21E+06
5.01E+06 8.12E+06 9.52E+06 1.01E+07 4.02E-03 121
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0
13-NOV-09 14:05:02 PAGE 24 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($) 0-80.5 km
 MILK DISPOSAL COST 1.0000 5.58E+05 4.26E+04 1.58E+06
2.34E+06 3.76E+06 4.29E+06 6.26E+06 7.28E-05 154
 CROP DISPOSAL COST 1.0000 1.42E+07 1.02E+07 3.25E+07
3.97E+07 5.41E+07 5.78E+07 8.18E+07 7.08E-05 154
XXXX

XXXX

XXXX

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1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  14:05:02    PAGE  26          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  7.24E+01  6.04E+01  1.34E+02
1.66E+02  2.49E+02  2.89E+02  3.98E+02  5.99E-04  116
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.76E+01  2.40E+01  5.27E+01
6.54E+01  7.54E+01  7.82E+01  9.93E+01  5.71E-05  109
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.54E+03  1.17E+03  3.02E+03
3.63E+03  5.39E+03  6.13E+03  8.70E+03  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.06E-05  6.28E-05  1.29E-04
1.68E-04  2.09E-04  2.15E-04  2.54E-04  5.71E-05  109
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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                                          PROB                                QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  6.16E+02  3.69E+02  1.37E+03
1.88E+03  3.10E+03  3.29E+03  5.31E+03  3.52E-05   69
 CAN FAT/TOTAL              0-16.1 km  1.0000  7.59E+01  7.10E+01  1.06E+02
1.11E+02  1.23E+02  1.28E+02  2.08E+02  3.37E-06   29

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.38E+04  8.37E+03  3.19E+04
4.06E+04  6.65E+04  8.03E+04  1.19E+05  3.52E-05   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.84E-04  1.61E-04  2.76E-04
3.05E-04  3.32E-04  3.44E-04  5.06E-04  3.37E-06   29

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.38E+04  8.37E+03  3.19E+04
4.06E+04  6.65E+04  8.03E+04  1.19E+05  3.52E-05   69
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.36E+04  8.30E+03  3.19E+04
4.06E+04  6.65E+04  8.03E+04  1.19E+05  3.52E-05   69
 TOTAL INGESTION PATHWAYS DOSE          1.0000  9.04E+01  3.62E+01  2.75E+02
3.28E+02  4.24E+02  4.73E+02  5.54E+02  1.09E-04   38
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.31E+04  7.82E+03  3.10E+04
3.88E+04  6.59E+04  7.80E+04  1.14E+05  3.52E-05   69
 LONG-TERM RESUSPENSION DOSE            1.0000  5.92E+02  3.59E+02  1.32E+03
1.79E+03  2.86E+03  3.15E+03  5.21E+03  3.52E-05   69
 WATER INGESTION DOSE                   1.0000  1.22E+01  1.04E+01  2.16E+01
2.67E+01  3.21E+01  3.34E+01  4.06E+01  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.57E+01  6.35E+01  1.48E+02
1.95E+02  2.28E+02  2.42E+02  3.26E+02  5.71E-05  109
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.42E-02  2.26E-02  7.95E-02
1.12E-01  1.87E-01  2.29E-01  3.44E-01  5.71E-05  121
 INGESTION OF GRAINS                    1.0000  3.11E+00  3.97E-01  1.07E+01
1.29E+01  1.97E+01  2.22E+01  2.73E+01  1.43E-03   18
 INGESTION OF LEAF VEG                  1.0000  5.21E+00  7.20E-01  1.53E+01
2.34E+01  5.07E+01  5.24E+01  6.92E+01  1.04E-05   69
 INGESTION OF ROOT CROPS                1.0000  4.19E+00  5.84E-01  1.33E+01
1.81E+01  2.75E+01  3.11E+01  3.60E+01  1.43E-03   18
 INGESTION OF FRUITS                    1.0000  6.10E+00  8.17E-01  2.14E+01
2.64E+01  3.78E+01  4.32E+01  5.27E+01  1.43E-03   18
 INGESTION OF LEGUMES                   1.0000  3.70E+00  6.95E-01  1.18E+01
1.52E+01  2.33E+01  2.63E+01  3.11E+01  1.43E-03   18
 INGESTION OF BEEF                      1.0000  2.84E+01  8.87E+00  9.38E+01
1.11E+02  1.48E+02  1.68E+02  2.14E+02  1.43E-03   18
 INGESTION OF MILK                      1.0000  1.78E+01  6.38E+00  5.44E+01
6.77E+01  9.34E+01  1.03E+02  1.45E+02  7.28E-05  154
 INGESTION OF POULTRY                   1.0000  7.95E+00  2.28E+00  2.41E+01
3.52E+01  6.17E+01  7.06E+01  8.96E+01  1.04E-05   69
 INGESTION OF OTHER MEAT CROPS          1.0000  1.73E+00  6.60E-01  4.43E+00
5.98E+00  1.04E+01  1.09E+01  1.56E+01  1.04E-05   69

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  6.40E+08  5.60E+08  1.11E+09
1.28E+09  1.75E+09  2.02E+09  5.86E+09  1.20E-03  107
 POP.-DEPENDENT COSTS                   1.0000  6.24E+08  5.44E+08  1.11E+09
1.27E+09  1.75E+09  2.02E+09  5.86E+09  1.20E-03  107
 FARM-DEPENDENT COSTS                   1.0000  1.53E+07  3.75E+06  5.13E+07
7.30E+07  1.22E+08  1.40E+08  1.92E+08  9.70E-04   18
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.54E+08  1.27E+08  2.81E+08
3.29E+08  4.41E+08  5.08E+08  1.27E+09  1.20E-03  107
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 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.88E+05  9.08E+04  4.11E+05
7.05E+05  1.25E+06  1.44E+06  3.97E+06  1.14E-04  107
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.64E+08  3.87E+08  8.78E+08
1.07E+09  1.64E+09  1.97E+09  4.58E+09  1.20E-03  107
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.33E+07  2.36E+06  4.53E+07
6.72E+07  1.08E+08  1.14E+08  1.78E+08  1.73E-05   67
 POP.-DEPENDENT CONDEMNATION COST       0.9106  6.77E+06  3.61E+06  1.21E+07
1.43E+07  9.91E+07  1.06E+08  1.25E+08  7.60E-04    2
 FARM-DEPENDENT CONDEMNATION COST       0.9106  4.87E+03  2.49E+03  7.95E+03
8.70E+03  6.61E+04  7.30E+04  7.73E+04  2.16E-03    2
 EMERGENCY PHASE COST                   0.9377  1.20E+05  8.71E+04  3.18E+05
3.79E+05  6.14E+05  7.89E+05  1.13E+06  3.71E-04    2
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  14:05:02    PAGE  28          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.38E+05  8.13E+03  4.66E+05
6.66E+05  1.46E+06  1.77E+06  4.14E+06  9.70E-04   18
 CROP DISPOSAL COST                     1.0000  1.66E+06  7.96E+05  4.46E+06
5.91E+06  1.03E+07  1.15E+07  4.18E+07  7.60E-06   67
XXXX
```

XXXX

```
XXXX
```

```
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.24E-04  2.07E-04  3.30E-04
3.59E-04  4.35E-04  4.73E-04  5.86E-04  1.55E-06   29
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  14:05:02    PAGE  30          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-80.5 km  1.0000  4.77E+01  3.68E+01  9.47E+01
1.12E+02  1.57E+02  1.81E+02  2.62E+02  5.99E-04  116
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.80E+01  1.47E+01  3.33E+01
4.41E+01  5.28E+01  5.43E+01  6.05E+01  3.71E-04    2
 ERL FAT/TOTAL                0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.06E+03  8.68E+02  2.06E+03
2.54E+03  3.59E+03  4.04E+03  5.86E+03  5.99E-04  116

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-16.1 km  1.0000  4.60E-05  3.93E-05  7.93E-05
1.00E-04  1.16E-04  1.23E-04  1.55E-04  3.71E-04    2
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  14:05:02   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FROM THE "CHRONC" MODULE ALONE
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13-NOV-09  14:05:02    PAGE  31          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.37E+02  3.37E+02  1.16E+03
1.49E+03  2.40E+03  2.79E+03  4.57E+03  3.52E-05   69
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.29E+01  6.77E+01  1.05E+02
1.10E+02  1.22E+02  1.27E+02  2.05E+02  3.37E-06   29

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.20E+04  7.62E+03  2.78E+04
3.64E+04  5.68E+04  6.41E+04  1.03E+05  3.52E-05   69

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.78E-04  1.56E-04  2.74E-04
3.05E-04  3.33E-04  3.45E-04  5.06E-04  3.37E-06   29

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.20E+04  7.62E+03  2.78E+04
3.64E+04  5.68E+04  6.41E+04  1.03E+05  3.52E-05   69
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.19E+04  7.50E+03  2.73E+04
3.61E+04  5.68E+04  6.41E+04  1.03E+05  3.52E-05   69
 TOTAL INGESTION PATHWAYS DOSE          1.0000  8.29E+01  3.20E+01  2.53E+02
3.26E+02  4.62E+02  5.08E+02  6.81E+02  1.73E-05   67
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.16E+04  7.28E+03  2.57E+04
3.45E+04  5.64E+04  6.39E+04  9.97E+04  3.52E-05   69
 LONG-TERM RESUSPENSION DOSE            1.0000  3.27E+02  2.05E+02  7.75E+02
1.05E+03  1.52E+03  1.78E+03  2.84E+03  3.52E-05   69
 WATER INGESTION DOSE                   1.0000  1.01E+01  8.91E+00  1.69E+01
2.08E+01  2.74E+01  3.02E+01  3.41E+01  1.43E-04  109
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  5.94E+01  4.89E+01  1.18E+02
1.54E+02  2.08E+02  2.13E+02  2.56E+02  5.71E-05  109
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  2.71E-02  1.70E-02  6.30E-02
8.25E-02  1.49E-01  1.99E-01  2.78E-01  5.71E-05  121
 INGESTION OF GRAINS                    1.0000  2.89E+00  3.81E-01  1.05E+01
1.27E+01  1.98E+01  2.24E+01  3.08E+01  9.42E-04   18
 INGESTION OF LEAF VEG                  1.0000  4.72E+00  5.03E-01  1.37E+01
2.20E+01  4.89E+01  5.37E+01  1.13E+02  1.73E-05   67
 INGESTION OF ROOT CROPS                1.0000  3.84E+00  4.85E-01  1.23E+01
1.61E+01  2.85E+01  3.23E+01  4.05E+01  9.42E-04   18
 INGESTION OF FRUITS                    1.0000  5.66E+00  7.32E-01  2.05E+01
2.54E+01  4.11E+01  5.02E+01  5.95E+01  9.42E-04   18
 INGESTION OF LEGUMES                   1.0000  3.34E+00  4.71E-01  1.09E+01
1.33E+01  2.18E+01  3.01E+01  3.47E+01  9.42E-04   18
 INGESTION OF BEEF                      1.0000  2.54E+01  7.64E+00  7.57E+01
9.80E+01  1.63E+02  2.00E+02  2.25E+02  9.42E-04   18
 INGESTION OF MILK                      1.0000  1.79E+01  6.09E+00  5.49E+01
7.03E+01  9.26E+01  1.03E+02  1.56E+02  1.09E-04  154
 INGESTION OF POULTRY                   1.0000  7.51E+00  2.15E+00  2.19E+01
3.33E+01  6.50E+01  7.38E+01  1.54E+02  1.73E-05   67
 INGESTION OF OTHER MEAT CROPS          1.0000  1.48E+00  5.54E-01  3.72E+00
5.51E+00  1.09E+01  1.21E+01  2.57E+01  1.73E-05   67

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  5.54E+08  4.73E+08  1.00E+09
1.18E+09  1.71E+09  2.00E+09  5.80E+09  1.20E-03  107
 POP.-DEPENDENT COSTS                   1.0000  5.41E+08  4.51E+08  9.99E+08
1.17E+09  1.70E+09  2.00E+09  5.80E+09  1.20E-03  107
 FARM-DEPENDENT COSTS                   1.0000  1.31E+07  3.39E+06  4.58E+07
```

```
6.31E+07  1.03E+08  1.07E+08  1.61E+08  6.93E-06   69
 POP.-DEPENDENT DECONTAMINATION COST    1.0000  1.35E+08  1.13E+08  2.55E+08
3.14E+08  4.35E+08  5.00E+08  1.25E+09  1.20E-03  107
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.62E+05  8.00E+04  3.61E+05
5.70E+05  1.21E+06  1.40E+06  3.85E+06  1.14E-04  107
 POP.-DEPENDENT INTERDICTION COST       1.0000  4.01E+08  3.37E+08  7.68E+08
9.31E+08  1.56E+09  1.96E+09  4.55E+09  1.20E-03  107
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.14E+07  2.10E+06  4.09E+07
5.95E+07  9.54E+07  1.02E+08  1.40E+08  6.93E-06   69
 POP.-DEPENDENT CONDEMNATION COST       0.8812  5.08E+06  3.37E+06  1.08E+07
1.22E+07  1.62E+07  1.83E+07  1.25E+08  3.80E-04    2
 FARM-DEPENDENT CONDEMNATION COST       0.6748  1.72E+03  1.97E+03  2.59E+03
2.89E+03 NOT-FOUND NOT-FOUND  8.49E+03  1.81E-02    3
 EMERGENCY PHASE COST                   0.9221  6.05E+04  1.46E+04  1.52E+05
1.99E+05  3.58E+05  3.94E+05  4.97E+05  9.13E-04    2
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  14:05:02    PAGE  32          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  9.98E+04  3.82E+03  3.85E+05
5.54E+05  1.21E+06  1.52E+06  2.53E+06  9.70E-04   18
 CROP DISPOSAL COST                     1.0000  1.46E+06  6.66E+05  3.85E+06
5.32E+06  8.17E+06  9.96E+06  1.91E+07  6.93E-06   69

Successful completion of MACCS2 was achieved!
This job required a total of     25.480 CPU seconds

   Input processing required      0.250 CPU seconds
         Simulation required     24.621 CPU seconds
  Output processing required      0.609 CPU seconds
```

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MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised 1/8/04, K. McFadden
P1:  ATMOS USER INPUT (UNIT 24) = atmbi3NS.INP


P2:  EARLY USER INPUT (UNIT 25) = earbi-noE.INP


P3: CHRONC USER INPUT (UNIT 26) = chrbiEC.INP


P4:  METEOROLOGY DATA (UNIT 28) = meti04.INP


P5:   SITE DATA INPUT (UNIT 29) = siteiEC.INP


P6:       LIST OUTPUT (UNIT 06) = conbi3NS-noE-Nmet04EC.OUT




USER INPUT IS READ FROM UNIT 24
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "ATMOS" INPUT

       *

    1  RIATNAM1001 'ATMOS INPUT FOR IPEC CALCULATIONS'

*******************************************************************************

       * GEOMETRY DATA BLOCK, LOADED BY INPGEO, STORED IN /GEOM/

       *

       * NUMBER OF RADIAL SPATIAL ELEMENTS

       *

    2  GENUMRAD001  15

       *

       *

       *

    3  GESPAEND001     0.32      1.61      3.22      4.83      6.44
```

```
  4  GESPAEND002     8.05      9.66     11.27     12.87     14.48
  5  GESPAEND003    16.09     32.19     48.28     64.37     80.47

*******************************************************************************
     * NUCLIDE DATA BLOCK, LOADED BY INPISO, STORED IN /ISOGRP/, /ISONAM/
     *
     * Number of pseudo-stable nuclides (used to truncate the decay chains)
     *
  6  ISNUMSTB001      27
     *
     * List of pseudo-stable nuclides
     *
  7  ISNAMSTB001     I-129    (daughter of Te-129 and Te-129m)
  8  ISNAMSTB002     Xe-131m  (daughter of I-131)
  9  ISNAMSTB003     Xe-133m  (daughter of I-133)
 10  ISNAMSTB004     Xe-135m  (daughter of I-135)
 11  ISNAMSTB005     Cs-135   (daughter of Xe-135 and Xe-135m)
 12  ISNAMSTB006     Sm-147   (daughter of Pm-147)
 13  ISNAMSTB007     U-234    (daughter of Pu-238)
 14  ISNAMSTB008     U-235    (daughter of Pu-239)
 15  ISNAMSTB009     U-236    (daughter of Pu-240)
 16  ISNAMSTB010     U-237    (daughter of Pu-241)
 17  ISNAMSTB011     Np-237   (daughter of Am-241)
 18  ISNAMSTB012     Rb-87    (daughter of Kr-87)
 19  ISNAMSTB013     Ba-137m  (daughter of Cs-137)
 20  ISNAMSTB014     Rb-88    (daughter of Kr-88)
 21  ISNAMSTB015     Y-91m    (daughter of Sr-91)
 22  ISNAMSTB016     Zr-93    (daughter of Y-93)
 23  ISNAMSTB017     Nb-93m   (daughter of Zr-93)
 24  ISNAMSTB018     Nb-95m   (daughter of Zr-95)
 25  ISNAMSTB019     Nb-97    (daughter of Zr-97 and Nb-97m)
 26  ISNAMSTB020     Nb-97m   (daughter of Zr-97)
```

```
ISNAMSTB021     Tc-99    (daughter of Mo-99)
ISNAMSTB022     Rh-103m  (daughter of Ru-103)
ISNAMSTB023     Rh-106   (daughter of Ru-106)
ISNAMSTB024    Te-131    (daughter of Te-131m)
ISNAMSTB025     Pr-144   (daughter of Ce-144 and Pr-144m)
ISNAMSTB026     Pr-144m  (daughter of Ce-144)
ISNAMSTB027     Pm-147   (daughter of Nd-147)
*
* Number of radioactive nuclides to be considered
*
ISNUMISO001 60
*
* NUMBER OF NUCLIDE GROUPS
*
ISMAXGRP001  9
*
* WET AND DRY DEPOSITION FLAGS FOR EACH NUCLIDE GROUP
*
*              WETDEP     DRYDEP
*
ISDEPFLA001    .FALSE.   .FALSE.
ISDEPFLA002    .TRUE.    .TRUE.
ISDEPFLA003    .TRUE.    .TRUE.
ISDEPFLA004    .TRUE.    .TRUE.
ISDEPFLA005    .TRUE.    .TRUE.
ISDEPFLA006    .TRUE.    .TRUE.
ISDEPFLA007    .TRUE.    .TRUE.
ISDEPFLA008    .TRUE.    .TRUE.
ISDEPFLA009    .TRUE.    .TRUE.
*
* NUCLIDE GROUP DATA FOR 9 NUCLIDE GROUPS
```

```
*
*                NUCNAM    IGROUP
*
ISOTPGRP001      Co-58        6
ISOTPGRP002      Co-60        6
ISOTPGRP003      Kr-85        1
ISOTPGRP004      Kr-85m       1
ISOTPGRP005      Kr-87        1
ISOTPGRP006      Kr-88        1
ISOTPGRP007      Rb-86        3
ISOTPGRP008      Sr-89        5
ISOTPGRP009      Sr-90        5
ISOTPGRP010      Sr-91        5
ISOTPGRP011      Sr-92        5
ISOTPGRP012      Y-90         7
ISOTPGRP013      Y-91         7
ISOTPGRP014      Y-92         7
ISOTPGRP015      Y-93         7
ISOTPGRP016      Zr-95        7
ISOTPGRP017      Zr-97        7
ISOTPGRP018      Nb-95        7
ISOTPGRP019      Mo-99        6
ISOTPGRP020      Tc-99m       6
ISOTPGRP021      Ru-103       6
ISOTPGRP022      Ru-105       6
ISOTPGRP023      Ru-106       6
ISOTPGRP024      Rh-105       6
ISOTPGRP025      Sb-127       4
ISOTPGRP026      Sb-129       4
ISOTPGRP027      Te-127       4
ISOTPGRP028      Te-127m      4
ISOTPGRP029      Te-129       4
```

74	ISOTPGRP030	Te-129m	4
75	ISOTPGRP031	Te-131m	4
76	ISOTPGRP032	Te-132	4
77	ISOTPGRP033	I-131	2
78	ISOTPGRP034	I-132	2
79	ISOTPGRP035	I-133	2
80	ISOTPGRP036	I-134	2
81	ISOTPGRP037	I-135	2
82	ISOTPGRP038	Xe-133	1
83	ISOTPGRP039	Xe-135	1
84	ISOTPGRP040	Cs-134	3
85	ISOTPGRP041	Cs-136	3
86	ISOTPGRP042	Cs-137	3
87	ISOTPGRP043	Ba-139	9
88	ISOTPGRP044	Ba-140	9
89	ISOTPGRP045	La-140	7
90	ISOTPGRP046	La-141	7
91	ISOTPGRP047	La-142	7
92	ISOTPGRP048	Ce-141	8
93	ISOTPGRP049	Ce-143	8
94	ISOTPGRP050	Ce-144	8
95	ISOTPGRP051	Pr-143	7
96	ISOTPGRP052	Nd-147	7
97	ISOTPGRP053	Np-239	8
98	ISOTPGRP054	Pu-238	8
99	ISOTPGRP055	Pu-239	8
100	ISOTPGRP056	Pu-240	8
101	ISOTPGRP057	Pu-241	8
102	ISOTPGRP058	Am-241	7
103	ISOTPGRP059	Cm-242	7
104	ISOTPGRP060	Cm-244	7

```
*****************************************************************************
       * WET DEPOSITION DATA BLOCK, LOADED BY INPWET, STORED IN /WETCON/
       *
       * WASHOUT COEFFICIENT NUMBER ONE, LINEAR FACTOR
       *
  105  WDCWASH1001  9.5E-5   (JON HELTON AFTER JONES, 1986)
       *
       * WASHOUT COEFFICIENT NUMBER TWO, EXPONENTIAL FACTOR
       *
  106  WDCWASH2001  0.8      (JON HELTON AFTER JONES, 1986)

*****************************************************************************
       * DRY DEPOSITION DATA BLOCK, LOADED BY INPDRY, STORED IN /DRYCON/
       *
       * NUMBER OF PARTICLE SIZE GROUPS
       *
  107  DDNPSGRP001   1
       *
       * DEPOSITION VELOCITY OF EACH PARTICLE SIZE GROUP (M/S)
       *
  108  DDVDEPOS001   0.01   (VALUE SELECTED BY S. ACHARYA, NRC)

*****************************************************************************
       * DISPERSION PARAMETER DATA BLOCK, LOADED BY INPDIS, STORED IN /DISPY/,
/DISPZ/
       *
       * # of distances in plume-size tables--which can be used as an alternative to
the power-law model:
       * (to utilize the power-law model, set NUM_DIST to zero or delete the
following data card)
       *
  109  NUM_DIST001   0
       *
       * SIGMA = A * X ** B
       *
```

```
      * Tadmor and Gur Parameterization for Distance Range 0.5 to 5.0 km

      * as taken from Atmospheric Motion and Air Pollution (Dobbins 1979).

      * P-G CLASS:          A            B            C            D            E
       F
  110  DPCYSIGA001         0.3658       0.2751       0.2089       0.1474       0.1046
    0.0722
  111  DPCYSIGB001         0.9031       0.9031       0.9031       0.9031       0.9031
    0.9031
  112  DPCZSIGA001         2.5E-4       1.9E-3       0.2          0.3          0.4
    0.2
  113  DPCZSIGB001         2.125        1.6021       0.8543       0.6532       0.6021
    0.6020
      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Y FUNCTION, NORMALLY 1

      *

  114  DPYSCALE001    1.

      *

      *  LINEAR SCALING FACTOR FOR SIGMA-Z FUNCTION,

      *  NORMALLY USED FOR SURFACE ROUGHNESS LENGTH CORRECTION.

      *  (Z1 / Z0) ** 0.2,   FROM CRAC2 WE HAVE  (10 CM / 3 CM) ** 0.2 = 1.27

      *

  115  DPZSCALE001    1.27

****************************************************************************** *

      * EXPANSION FACTOR DATA BLOCK, LOADED BY INPEXP, STORED IN /EXPAND/

      *

      * TIME BASE FOR EXPANSION FACTOR (SECONDS)

      *

  116  PMTIMBAS001    600.   (10 MINUTES)

      *

      * BREAK POINT FOR FORMULA CHANGE (SECONDS)

      *

  117  PMBRKPNT001   3600.   (1 HOUR)

      *

      * EXPONENTIAL EXPANSION FACTOR NUMBER 1

      *

  118  PMXPFAC1001      0.2
```

```
       *
       * EXPONENTIAL EXPANSION FACTOR NUMBER 2
       *
  119  PMXPFAC2001      0.25
*******************************************************************************
       * PLUME RISE DATA BLOCK, LOADED BY INPLRS, STORED IN /PLUMRS/
       *
       * SCALING FACTOR FOR THE CRITICAL WIND SPEED FOR ENTRAINMENT OF A BOUYANT
PLUME
       * (USED BY FUNCTION CAUGHT)
       *
  120  PRSCLCRW001   1.
       *
       * SCALING FACTOR FOR THE A-D STABILITY PLUME RISE FORMULA
       * (USED BY FUNCTION PLMRIS)
       *
  121  PRSCLADP001   1.
       *
       * SCALING FACTOR FOR THE E-F STABILITY PLUME RISE FORMULA
       * (USED BY FUNCTION PLMRIS)
       *
  122  PRSCLEFP001   1.
*******************************************************************************
       * RELEASE DATA BLOCK, LOADED BY INPREL, STORED IN /ATNAM2/, /MULREL/
       ********************** RELEASE DATA BLOCK ************
       * SOURCE TERM NUMBER  1 OF 8
  123  RDATNAM2001 'NCF'
       *
       * TIME AFTER ACCIDENT INITIATION WHEN THE ACCIDENT REACHES GENERAL EMERGENCY
       * CONDITIONS (AS DEFINED IN NUREG-0654), OR WHEN PLANT PERSONNEL CAN RELIABLY
       * PREDICT THAT GENERAL EMERGENCY CONDITIONS WILL BE ATTAINED
       *
```

```
124  RDOALARM001   1.26E+04
     *
     * NUMBER OF PLUME SEGMENTS THAT ARE RELEASED
     *
125  RDNUMREL001          1
     *
     * SELECTION OF RISK DOMINANT PLUME
     *
126  RDMAXRIS001          1
     *
     * REFERENCE TIME FOR DISPERSION AND RADIOACTIVE DECAY
     *
127  RDREFTIM001        0.5
     *
     * HEAT CONTENT OF THE RELEASE SEGMENTS (W)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
128  RDPLHEAT001   9.20E+05
     *
     * HEIGHT OF THE PLUME SEGMENTS AT RELEASE (M)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
129  RDPLHITE001        30.
     *
     * DURATION OF THE PLUME SEGMENTS (S)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
     *
130  RDPLUDUR001   8.64E+04
     *
     * TIME OF RELEASE FOR EACH PLUME (S AFTER SCRAM)
     * A VALUE SPECIFIED FOR EACH OF THE RELEASE SEGMENTS
```

```
*
RDPDELAY001   0.00E+00
*
* Initial value of sigma-y for each plume--Note: values required for each
plume
*
SIGYINIT001   9.9  (initial sigma-y = W/4.3 = 42.5/4.3)
*
* Initial value of sigma-z for each plume--Note: values required for each
plume
*
SIGZINIT001  31.1  (initial sigma-z = H/2.15 = 66.8/2.15)
*
* Building height (meters)--Note: values required for each plume
*
WEBUILDH001   66.8
*
* PARTICLE SIZE DISTRIBUTION OF EACH NUCLIDE GROUP
* YOU MUST SPECIFY A COLUMN OF DATA FOR EACH OF THE PARTICLE SIZE GROUPS
*
RDPSDIST001      1.
RDPSDIST002      1.
RDPSDIST003      1.
RDPSDIST004      1.
RDPSDIST005      1.
RDPSDIST006      1.
RDPSDIST007      1.
RDPSDIST008      1.
RDPSDIST009      1.
*
*
*               NUCNAM  CORINV (Bq)
*
RDCORINV001     Co-58    3.04E+16
```

145	RDCORINV002	Co-60	2.32E+16
146	RDCORINV003	Kr-85	3.87E+16
147	RDCORINV004	Kr-85m	8.52E+17
148	RDCORINV005	Kr-87	1.64E+18
149	RDCORINV006	Kr-88	2.30E+18
150	RDCORINV007	Rb-86	8.24E+15
151	RDCORINV008	Sr-89	3.09E+18
152	RDCORINV009	Sr-90	3.07E+17
153	RDCORINV010	Sr-91	3.87E+18
154	RDCORINV011	Sr-92	4.19E+18
155	RDCORINV012	Y-90	3.20E+17
156	RDCORINV013	Y-91	3.98E+18
157	RDCORINV014	Y-92	4.22E+18
158	RDCORINV015	Y-93	4.85E+18
159	RDCORINV016	Zr-95	5.38E+18
160	RDCORINV017	Zr-97	5.41E+18
161	RDCORINV018	Nb-95	5.45E+18
162	RDCORINV019	Mo-99	6.11E+18
163	RDCORINV020	Tc-99m	5.34E+18
164	RDCORINV021	Ru-103	4.85E+18
165	RDCORINV022	Ru-105	3.34E+18
166	RDCORINV023	Ru-106	1.69E+18
167	RDCORINV024	Rh-105	3.08E+18
168	RDCORINV025	Sb-127	3.45E+17
169	RDCORINV026	Sb-129	1.04E+18
170	RDCORINV027	Te-127	3.43E+17
171	RDCORINV028	Te-127m	4.47E+16
172	RDCORINV029	Te-129	1.02E+18
173	RDCORINV030	Te-129m	1.49E+17
174	RDCORINV031	Te-131m	4.64E+17
175	RDCORINV032	Te-132	4.54E+18

```
RDCORINV033     I-131    3.18E+18
RDCORINV034     I-132    4.64E+18
RDCORINV035     I-133    6.56E+18
RDCORINV036     I-134    7.19E+18
RDCORINV037     I-135    6.14E+18
RDCORINV038     Xe-133   6.25E+18
RDCORINV039     Xe-135   1.67E+18
RDCORINV040     Cs-134   7.16E+17
RDCORINV041     Cs-136   2.08E+17
RDCORINV042     Cs-137   4.15E+17
RDCORINV043     Ba-139   5.86E+18
RDCORINV044     Ba-140   5.58E+18
RDCORINV045     La-140   5.76E+18
RDCORINV046     La-141   5.34E+18
RDCORINV047     La-142   5.17E+18
RDCORINV048     Ce-141   5.31E+18
RDCORINV049     Ce-143   4.99E+18
RDCORINV050     Ce-144   4.19E+18
RDCORINV051     Pr-143   4.78E+18
RDCORINV052     Nd-147   2.12E+18
RDCORINV053     Np-239   6.53E+19
RDCORINV054     Pu-238   1.43E+16
RDCORINV055     Pu-239   1.22E+15
RDCORINV056     Pu-240   1.82E+15
RDCORINV057     Pu-241   4.08E+17
RDCORINV058     Am-241   5.03E+14
RDCORINV059     Cm-242   1.21E+17
RDCORINV060     Cm-244   1.29E+16
*
*  SCALING FACTOR TO ADJUST THE CORE INVENTORY FOR POWER LEVEL
*
*
```

```
  204  RDCORSCA001   1.0
       *
  205  RDAPLFRC001   PARENT      (apply rel fracs the same as prior versions)
       *
       * RELEASE FRACTIONS FOR ISOTOPE GROUPS IN RELEASE
       *
       *  ISOTOPE GROUPS:
       *
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *
  206  RDRELFRC001 9.6E-05 6.5E-06 2.7E-06 2.1E-06 6.1E-08 5.2E-07 3.3E-09 2.7E-08
1.8E-07
       *

*******************************************************************************
       * OUTPUT CONTROL DATA BLOCK, LOADED BY INPOPT, STORED IN /STOPME/, /ATMOPT/
       *
       * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
       *
  207  OCENDAT1001  .FALSE. (SET THIS VALUE TO .TRUE. TO SKIP EARLY AND CHRONC)
       *
  208  OCIDEBUG001  0
       *
       * NAME OF THE NUCLIDE TO BE LISTED ON THE DISPERSION LISTINGS
       *
       *OCNUCOUT001  Cs-137
       *
       *              NUM0
  209  TYPE0NUMBER      0
       *
       *              INDREL   INDRAD
       *TYPE0OUT001      1        9
       *TYPE0OUT002      1       10         CCDF
```

```
*****************************************************************************
      * METEOROLOGICAL SAMPLING DATA BLOCK
      *
      * METEOROLOGICAL SAMPLING OPTION CODE:
      *
      * METCOD = 1, USER SPECIFIED DAY AND HOUR IN THE YEAR (FROM MET FILE),
      *          2, WEATHER CATEGORY BIN SAMPLING,
      *          3, 120 HOURS OF WEATHER SPECIFIED ON THE ATMOS USER INPUT FILE,
      *          4, CONSTANT MET (BOUNDARY WEATHER USED FROM THE START),
      *          5, STRATIFIED RANDOM SAMPLES FOR EACH DAY OF THE YEAR.
      *
  210 M1METCOD001  2
      *
      * LAST SPATIAL INTERVAL FOR MEASURED WEATHER
      *
  211 M2LIMSPA001  15
      *
      * BOUNDARY WEATHER MIXING LAYER HEIGHT
      *
  212 M2BNDMXH001  1000.  (METERS)
      *
      * BOUNDARY WEATHER STABILITY CLASS INDEX
      *
  213 M2IBDSTB001  4      (D-STABILITY)
      *
      * BOUNDARY WEATHER RAIN RATE
      *
  214 M2BNDRAN001  0.     (MM/HR)
      *
      * BOUNDARY WEATHER WIND SPEED
      *
```

```
215  M2BNDWND001  5.     (M/S)
     *
     * NUMBER OF RAIN DISTANCE INTERVALS FOR BINNING
     *
216  M4NRNINT001  6
     *
     * ENDPOINTS OF THE RAIN DISTANCE INTERVALS (KILOMETERS)
     *
     * NOTE: THESE MUST BE CHOSEN TO MATCH THE SPATIAL ENDPOINT DISTANCES
     *       SPECIFIED FOR THE ARRAY SPAEND (10 % ERROR IS ALLOWED).
     *
     *             2.0    4.0      7     10.0     20.0   40.0   MILES
     *
217  M4RNDSTS001  3.23  6.45    11.29   16.13    32.26  64.52   KM
     *
     * NUMBER OF RAIN INTENSITIY BREAKPOINTS
     *
218  M4NRINTN001   3
     *
     * RAIN INTENSITY BREAKPOINTS FOR WEATHER BINNING (MILLIMETERS PER HOUR)
     *
219  M4RNRATE001   2.  4.  6.
     *
     * NUMBER OF SAMPLES PER BIN
     *
220  M4NSMPLS001  4  (THIS NUMBER SHOULD BE SET TO 4 FOR RISK ASSESSMENT)
     *
     * INITIAL SEED FOR RANDOM NUMBER GENERATOR
     *
221  M4IRSEED001   79
     .
```

```
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  449
NUMBER OF BLANK OR COMMENT RECORDS READ         =  227
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =  221
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =  221
*******************************************************************************
****************



Decay Chain #  Ba-139

Decay Chain #  Ba-140   La-140
Fraction of Ba-140  going to La-140  in this chain = 1.000000

Decay Chain #  Ce-143   Pr-143
Fraction of Ce-143  going to Pr-143  in this chain = 1.000000

Decay Chain #  Ce-144

Decay Chain #  Cm-242   Pu-238
Fraction of Cm-242  going to Pu-238  in this chain = 1.000000

Decay Chain #  Cm-244   Pu-240
Fraction of Cm-244  going to Pu-240  in this chain = 1.000000

Decay Chain #  Co-58

Decay Chain #  Co-60

Decay Chain #  Cs-134

Decay Chain #  Cs-136

Decay Chain #  Cs-137

Decay Chain #  I-133    Xe-133
Fraction of I-133   going to Xe-133  in this chain = 0.971000

Decay Chain #  I-134

Decay Chain #  I-135    Xe-135
Fraction of I-135   going to Xe-135  in this chain = 0.846000

Decay Chain #  Kr-85m   Kr-85
Fraction of Kr-85m  going to Kr-85   in this chain = 0.211000

Decay Chain #  Kr-87

Decay Chain #  Kr-88

Decay Chain #  La-141   Ce-141
Fraction of La-141  going to Ce-141  in this chain = 1.000000

Decay Chain #  La-142

Decay Chain #  Mo-99    Tc-99m
```

```
Fraction of Mo-99   going to Tc-99m  in this chain = 0.876000

Decay Chain #  Nd-147

Decay Chain #  Np-239   Pu-239
Fraction of Np-239  going to Pu-239  in this chain = 1.000000

Decay Chain #  Pu-241   Am-241
Fraction of Pu-241  going to Am-241  in this chain = 1.000000

Decay Chain #  Rb-86

Decay Chain #  Ru-103

Decay Chain #  Ru-105   Rh-105
Fraction of Ru-105  going to Rh-105  in this chain = 1.000000

Decay Chain #  Ru-106

Decay Chain #  Sb-127   Te-127
Fraction of Sb-127  going to Te-127  in this chain = 0.824000

Decay Chain #  Sb-127   Te-127m  Te-127
Fraction of Sb-127  going to Te-127m in this chain = 0.176000
Fraction of Sb-127  going to Te-127  in this chain = 0.171776
Fraction of Te-127m going to Te-127  in this chain = 0.976000

Decay Chain #  Sb-129   Te-129
Fraction of Sb-129  going to Te-129  in this chain = 0.775000

Decay Chain #  Sb-129   Te-129m  Te-129
Fraction of Sb-129  going to Te-129m in this chain = 0.225000
Fraction of Sb-129  going to Te-129  in this chain = 0.146250
Fraction of Te-129m going to Te-129  in this chain = 0.650000

Decay Chain #  Sr-89

Decay Chain #  Sr-90    Y-90
Fraction of Sr-90   going to Y-90    in this chain = 1.000000

Decay Chain #  Sr-91    Y-91
Fraction of Sr-91   going to Y-91    in this chain = 0.422000

Decay Chain #  Sr-92    Y-92
Fraction of Sr-92   going to Y-92    in this chain = 1.000000

Decay Chain #  Te-131m  I-131
Fraction of Te-131m going to I-131   in this chain = 0.778000

Decay Chain #  Te-132   I-132
Fraction of Te-132  going to I-132   in this chain = 1.000000

Decay Chain #  Y-93

Decay Chain #  Zr-95    Nb-95
Fraction of Zr-95   going to Nb-95   in this chain = 0.993000

Decay Chain #  Zr-97


RELEASED INVENTORY OF ALL PLUMES
Co-58      1.57E+10
Co-60      1.21E+10
```

Kr-85	3.72E+12
Kr-85m	1.28E+13
Kr-87	2.27E+11
Kr-88	1.18E+13
Rb-86	2.18E+10
Sr-89	1.87E+11
Sr-90	1.87E+10
Sr-91	9.84E+10
Sr-92	1.19E+10
Y-90	3.21E+09
Y-91	1.34E+10
Y-92	4.22E+10
Y-93	7.02E+09
Zr-95	1.77E+10
Zr-97	1.09E+10
Nb-95	1.80E+10
Mo-99	2.80E+12
Tc-99m	2.63E+12
Ru-103	2.50E+12
Ru-105	2.67E+11
Ru-106	8.78E+11
Rh-105	1.42E+12
Sb-127	6.62E+11
Sb-129	3.18E+11
Te-127	6.84E+11
Te-127m	9.40E+10
Te-129	5.40E+11
Te-129m	3.12E+11
Te-131m	7.38E+11
Te-132	8.57E+12
I-131	1.98E+13
I-132	9.38E+12
I-133	2.86E+13
I-134	3.54E+09
I-135	1.13E+13
Xe-133	5.64E+14
Xe-135	7.47E+13
Cs-134	1.93E+12
Cs-136	5.47E+11
Cs-137	1.12E+12
Ba-139	2.53E+09
Ba-140	9.77E+11
La-140	2.00E+11
La-141	2.12E+09
La-142	7.74E+07
Ce-141	1.42E+11
Ce-143	1.05E+11
Ce-144	1.13E+11
Pr-143	1.84E+10
Nd-147	6.78E+09
Np-239	1.52E+12
Pu-238	3.86E+08
Pu-239	3.30E+07
Pu-240	4.91E+07
Pu-241	1.10E+10
Am-241	1.68E+06
Cm-242	3.98E+08
Cm-244	4.26E+07

READING FROM A WEATHER FILE WITH THE FOLLOWING HEADER:
INDIAN POINT ENERGY CENTER METEORLOGICAL DATAFILE
Input file for the MACCS2 model using the year 2004
METEOROLOGICAL DATA FILE CONTAINS 442 HOURS OF OBSERVED RAIN DATA.

```
            ACCUMULATED RAIN MEASUREMENTS TOTALED  31.15 INCHES FOR THE YEAR.
            CONSTANT LID HEIGHTS (M) FOR 4 SEASONS =    1200   1300   1400   1200
            NON-ZERO WINDSPEEDS LESS THAN 0.5 M/S ARE SET TO 0.5 M/S
NUMTRI=         143


                                  * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND, 1 (0-1), 2 (1-2), 3
(2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                     WIND DIRECTION
  METBIN    1     2     3     4     5     6     7     8     9    10    11    12
13    14    15    16  TOTAL   PER CENT

 1 B   3  0.246 0.114 0.065 0.055 0.048 0.058 0.071 0.068 0.158 0.014 0.004 0.004
0.000 0.000 0.005 0.090  765     8.7329
 2 B   4  0.137 0.056 0.032 0.005 0.010 0.105 0.218 0.069 0.252 0.069 0.007 0.007
0.000 0.000 0.000 0.032  408     4.6575
 3 D   1  0.176 0.065 0.082 0.018 0.029 0.029 0.018 0.018 0.024 0.071 0.029 0.047
0.059 0.106 0.082 0.147  170     1.9406
 4 D   2  0.146 0.100 0.044 0.037 0.034 0.032 0.038 0.048 0.133 0.137 0.075 0.032
0.019 0.025 0.028 0.073 1043    11.9064
 5 D   3  0.109 0.050 0.016 0.015 0.046 0.063 0.123 0.075 0.175 0.238 0.051 0.008
0.001 0.000 0.002 0.027 1232    14.0639
 6 D   4  0.053 0.037 0.005 0.002 0.020 0.068 0.207 0.094 0.174 0.318 0.018 0.001
0.000 0.000 0.000 0.002  998    11.3927
 7 D   5  0.000 0.027 0.000 0.000 0.041 0.054 0.176 0.027 0.243 0.432 0.000 0.000
0.000 0.000 0.000 0.000   74     0.8447
 9 E   1  0.118 0.085 0.069 0.045 0.033 0.024 0.023 0.028 0.071 0.076 0.059 0.050
0.063 0.085 0.061 0.109  576     6.5753
10 E   2  0.152 0.112 0.043 0.038 0.024 0.031 0.034 0.024 0.054 0.177 0.136 0.050
0.025 0.013 0.014 0.072 1043    11.9064
11 E   3  0.215 0.081 0.017 0.017 0.026 0.058 0.055 0.038 0.038 0.282 0.122 0.003
0.000 0.000 0.000 0.047  344     3.9269
12 E   4  0.275 0.188 0.000 0.029 0.029 0.058 0.101 0.029 0.072 0.203 0.014 0.000
0.000 0.000 0.000 0.000   69     0.7877
13 F   1  0.068 0.043 0.038 0.034 0.017 0.026 0.017 0.051 0.132 0.244 0.103 0.013
0.064 0.034 0.064 0.051  234     2.6712
14 F   2  0.043 0.022 0.011 0.011 0.000 0.007 0.000 0.007 0.086 0.337 0.262 0.097
0.050 0.018 0.022 0.029  279     3.1849
15 F   3  0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.367 0.571 0.041
0.000 0.000 0.000 0.000   49     0.5594
16 F   4  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.750 0.250 0.000
0.000 0.000 0.000 0.000    8     0.0913
17 R1  3  0.117 0.042 0.025 0.006 0.003 0.014 0.008 0.022 0.117 0.328 0.072 0.042
0.039 0.019 0.039 0.108  360     4.1096
18 R1  6  0.138 0.108 0.015 0.031 0.000 0.000 0.000 0.015 0.046 0.108 0.092 0.046
0.062 0.062 0.077 0.200   65     0.7420
19 R1 11  0.205 0.045 0.027 0.036 0.009 0.000 0.000 0.018 0.107 0.232 0.071 0.036
0.036 0.054 0.054 0.071  112     1.2785
20 R1 16  0.171 0.114 0.029 0.043 0.000 0.000 0.000 0.000 0.057 0.200 0.071 0.057
0.029 0.086 0.043 0.100   70     0.7991
21 R1 32  0.223 0.091 0.029 0.017 0.012 0.012 0.004 0.012 0.070 0.190 0.066 0.045
0.037 0.062 0.041 0.087  242     2.7626
```

```
22 R1 65  0.212 0.087 0.033 0.031 0.015 0.005 0.018 0.033 0.064 0.186 0.089 0.033
0.028 0.026 0.038 0.102  392     4.4749
23 R2  3  0.104 0.104 0.000 0.042 0.000 0.021 0.000 0.021 0.063 0.375 0.042 0.063
0.021 0.000 0.083 0.063   48     0.5479
24 R2  6  0.250 0.250 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.500    4     0.0457
25 R2 11  0.444 0.111 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.222 0.000 0.111
0.000 0.000 0.000 0.111    9     0.1027
26 R2 16  0.167 0.000 0.333 0.000 0.000 0.167 0.000 0.000 0.000 0.167 0.000 0.000
0.167 0.000 0.000 0.000    6     0.0685
27 R2 32  0.227 0.182 0.045 0.045 0.045 0.091 0.045 0.045 0.000 0.000 0.045 0.045
0.000 0.045 0.000 0.136   22     0.2511
28 R2 65  0.395 0.079 0.026 0.000 0.000 0.000 0.000 0.000 0.000 0.105 0.132 0.053
0.053 0.053 0.053 0.053   38     0.4338
29 R3  3  0.364 0.000 0.000 0.000 0.000 0.000 0.000 0.045 0.045 0.364 0.045 0.000
0.000 0.000 0.000 0.136   22     0.2511
31 R3 11  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.500 0.000
0.000 0.000 0.000 0.000    2     0.0228
33 R3 32  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.000 0.000
0.000 0.000 0.000 0.000    2     0.0228
34 R3 65  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.000 0.000
0.000 0.000 0.000 0.000    4     0.0457
35 R4  3  0.267 0.067 0.000 0.067 0.033 0.000 0.033 0.033 0.033 0.333 0.033 0.000
0.033 0.000 0.000 0.067   30     0.3425
36 R4  6  0.000 0.250 0.250 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.250 0.000 0.250 0.000    4     0.0457
37 R4 11  0.250 0.000 0.000 0.250 0.000 0.000 0.000 0.000 0.000 0.000 0.250 0.000
0.000 0.250 0.000 0.000    4     0.0457
38 R4 16  0.333 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.333 0.000 0.333 0.000    3     0.0342
39 R4 32  0.000 0.444 0.111 0.111 0.000 0.000 0.000 0.000 0.111 0.111 0.000 0.000
0.111 0.000 0.000 0.000    9     0.1027
40 R4 65  0.250 0.200 0.000 0.100 0.000 0.050 0.050 0.000 0.000 0.050 0.050 0.000
0.000 0.050 0.050 0.150   20     0.2283
41 ALL    0.141 0.076 0.033 0.026 0.027 0.042 0.074 0.048 0.120 0.193 0.071 0.026
0.020 0.020 0.021 0.062 8760
```

```
                              * * * * METEOROLOGICAL BIN SUMMARY * * * *
  BIN PRIORITIES
    RI XX - RAIN INTENSITY I WITHIN THE INTERVAL ENDING AT XX
              INTERVAL ENDPOINTS ARE IN KILOMETERS FROM THE ACCIDENT SITE, THE 6
INTERVAL ENDPOINTS ARE    3   6  11  16  32  65
              RAIN INTENSITIES ARE IN MILLIMETERS OF RAIN PER HOUR, THE 3 INTENSITY
BREAKPOINTS ARE         2.0  4.0  6.0
    S   V - INITIAL WEATHER CONDITIONS WITH STABILITY CLASS S AND WIND SPEED
INTERVAL V
              STABILITY CLASSES ARE B = A/B, D = C/D, E = E, AND F = F
              WIND SPEED INTERVALS ARE IN METERS PER SECOND (M/S), 1 (0-1), 2 (1-2),
3 (2-3), 4 (3-5), 5 (5-7), 6 (GT 7)

                                                WIND DIRECTION
  METBIN    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15
 16 TOTAL   PER CENT

 1 B   3   188   87   50   42   37   44   54   52  121   11    3    3    0    0    4
  69  765     8.7329
 2 B   4    56   23   13    2    4   43   89   28  103   28    3    3    0    0    0
  13  408     4.6575
 3 D   1    30   11   14    3    5    5    3    3    4   12    5    8   10   18   14
  25  170     1.9406
 4 D   2   152  104   46   39   35   33   40   50  139  143   78   33   20   26   29
  76 1043    11.9064
 5 D   3   134   61   20   19   57   78  152   92  216  293   63   10    1    0    3
```

```
  33 1232    14.0639
 6 D   4    53   37    5    2   20   68  207   94  174  317   18    1    0    0    0
   2  998    11.3927
 7 D   5     0    2    0    0    3    4   13    2   18   32    0    0    0    0    0
   0   74     0.8447
 8 D   6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
 9 E   1    68   49   40   26   19   14   13   16   41   44   34   29   36   49   35
  63  576     6.5753
10 E   2   159  117   45   40   25   32   35   25   56  185  142   52   26   14   15
  75 1043    11.9064
11 E   3    74   28    6    6    9   20   19   13   13   97   42    1    0    0    0
  16  344     3.9269
12 E   4    19   13    0    2    2    4    7    2    5   14    1    0    0    0    0
   0   69     0.7877
13 F   1    16   10    9    8    4    6    4   12   31   57   24    3   15    8   15
  12  234     2.6712
14 F   2    12    6    3    3    0    2    0    2   24   94   73   27   14    5    6
   8  279     3.1849
15 F   3     1    0    0    0    0    0    0    0    0   18   28    2    0    0    0
   0   49     0.5594
16 F   4     0    0    0    0    0    0    0    0    0    6    2    0    0    0    0
   0    8     0.0913
17 R1  3    42   15    9    2    1    5    3    8   42  118   26   15   14    7   14
  39  360     4.1096
18 R1  6     9    7    1    2    0    0    0    1    3    7    6    3    4    4    5
  13   65     0.7420
19 R1 11    23    5    3    4    1    0    0    2   12   26    8    4    4    6    6
   8  112     1.2785
20 R1 16    12    8    2    3    0    0    0    0    4   14    5    4    2    6    3
   7   70     0.7991
21 R1 32    54   22    7    4    3    3    1    3   17   46   16   11    9   15   10
  21  242     2.7626
22 R1 65    83   34   13   12    6    2    7   13   25   73   35   13   11   10   15
  40  392     4.4749
23 R2  3     5    5    0    2    0    1    0    1    3   18    2    3    1    0    4
   3   48     0.5479
24 R2  6     1    1    0    0    0    0    0    0    0    0    0    0    0    0    0
   2    4     0.0457
25 R2 11     4    1    0    0    0    0    0    0    0    2    0    1    0    0    0
   1    9     0.1027
26 R2 16     1    0    2    0    0    1    0    0    0    1    0    0    1    0    0
   0    6     0.0685
27 R2 32     5    4    1    1    1    2    1    1    0    0    1    1    0    1    0
   3   22     0.2511
28 R2 65    15    3    1    0    0    0    0    0    0    4    5    2    2    2    2
   2   38     0.4338
29 R3  3     8    0    0    0    0    0    0    1    1    8    1    0    0    0    0
   3   22     0.2511
30 R3  6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
31 R3 11     0    0    0    0    0    0    0    0    0    1    1    0    0    0    0
   0    2     0.0228
32 R3 16     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
   0    0     0.0000
33 R3 32     0    0    0    0    0    0    0    0    0    2    0    0    0    0    0
   0    2     0.0228
34 R3 65     0    0    0    0    0    0    0    0    0    4    0    0    0    0    0
   0    4     0.0457
35 R4  3     8    2    0    2    1    0    1    1    1   10    1    0    1    0    0
   2   30     0.3425
36 R4  6     0    1    1    0    0    0    0    0    0    0    0    0    1    0    1
   0    4     0.0457
```

```
37 R4 11     1    0    0    1    0    0    0    0    0    0    1    0    0    1    0
   0    4     0.0457
38 R4 16     1    0    0    0    0    0    0    0    0    0    0    0    1    0    1
   0    3     0.0342
39 R4 32     0    4    1    1    0    0    0    0    1    1    0    0    1    0    0
   0    9     0.1027
40 R4 65     5    4    0    2    0    1    1    0    0    1    1    0    0    1    1
   3   20     0.2283


              * * * * SUMMARIES * * * *

   R      277  116   41   36   13   15   14   31  109  336  109   57   52   53   62
147 1468   16.7580
   B      244  110   63   44   41   87  143   80  224   39    6    6    0    0    4
 82 1173   13.3904
   D      369  215   85   63  120  188  415  241  551  797  164   52   31   44   46
136 3517   40.1484
   E      320  207   91   74   55   70   74   56  115  340  219   82   62   63   50
154 2032   23.1963
   F       29   16   12   11    4    8    4   14   55  175  127   32   29   13   21
 20  570    6.5068
      1   114   70   63   37   28   25   20   31   76  113   63   40   61   75   64
100  980   11.1872
      2   396  276  120  108   78   77   91  102  247  427  294  115   60   45   54
180 2670   30.4795
      3   324  127   50   41   85  132  209  132  322  414  135   13    1    0    3
 97 2085   23.8014
      4   125   73   18    6   26  113  300  121  271  363   24    4    0    0    0
 15 1459   16.6553
      5     3    2    0    0    3    6   16    5   29   34    0    0    0    0    0
  0   98    1.1187
      6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
  0    0    0.0000

                * * * * * BIN WINDROSE SUMMARY * * * * *

  BIN                            DIRECTION
                                     TOTAL
          1      2      3      4      5      6      7      8      9     10     11
 12     13     14     15     16
    1  0.246  0.114  0.065  0.055  0.048  0.058  0.071  0.068  0.158  0.014  0.004
0.004  0.000  0.000  0.005  0.090  1.000000
    2  0.137  0.056  0.032  0.005  0.010  0.105  0.218  0.069  0.252  0.069  0.007
0.007  0.000  0.000  0.000  0.032  1.000000
    3  0.176  0.065  0.082  0.018  0.029  0.029  0.018  0.018  0.024  0.071  0.029
0.047  0.059  0.106  0.082  0.147  1.000000
    4  0.146  0.100  0.044  0.037  0.034  0.032  0.038  0.048  0.133  0.137  0.075
0.032  0.019  0.025  0.028  0.073  1.000000
    5  0.109  0.050  0.016  0.015  0.046  0.063  0.123  0.075  0.175  0.238  0.051
0.008  0.001  0.000  0.002  0.027  1.000000
    6  0.053  0.037  0.005  0.002  0.020  0.068  0.207  0.094  0.174  0.318  0.018
0.001  0.000  0.000  0.000  0.002  1.000000
    7  0.000  0.027  0.000  0.000  0.041  0.054  0.176  0.027  0.243  0.432  0.000
0.000  0.000  0.000  0.000  0.000  1.000000
    8  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000000
    9  0.118  0.085  0.069  0.045  0.033  0.024  0.023  0.028  0.071  0.076  0.059
0.050  0.063  0.085  0.061  0.109  1.000000
   10  0.152  0.112  0.043  0.038  0.024  0.031  0.034  0.024  0.054  0.177  0.136
0.050  0.025  0.013  0.014  0.072  1.000000
   11  0.215  0.081  0.017  0.017  0.026  0.058  0.055  0.038  0.038  0.282  0.122
0.003  0.000  0.000  0.000  0.047  1.000000
```

```
   12  0.275  0.188  0.000  0.029  0.029  0.058  0.101  0.029  0.072  0.203  0.014
0.000  0.000  0.000  0.000  0.000  1.000000
   13  0.068  0.043  0.038  0.034  0.017  0.026  0.017  0.051  0.132  0.244  0.103
0.013  0.064  0.034  0.064  0.051  1.000000
   14  0.043  0.022  0.011  0.011  0.000  0.007  0.000  0.007  0.086  0.337  0.262
0.097  0.050  0.018  0.022  0.029  1.000000
   15  0.020  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.367  0.571
0.041  0.000  0.000  0.000  0.000  1.000000
   16  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.750  0.250
0.000  0.000  0.000  0.000  0.000  1.000000
   17  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   18  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   19  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   20  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   21  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   22  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   23  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   24  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   25  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   26  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   27  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   28  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   29  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   30  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   31  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   32  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   33  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   34  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   35  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   36  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   37  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   38  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   39  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   40  0.189  0.079  0.028  0.025  0.009  0.010  0.010  0.021  0.074  0.229  0.074
0.039  0.035  0.036  0.042  0.100  1.000000
   41  0.141  0.076  0.033  0.026  0.027  0.042  0.074  0.048  0.120  0.193  0.071
0.026  0.020  0.020  0.021  0.062  1.000000


******** BEGINNING OF CHANGE CASE   1 USER INPUT ********
```

```
********************** RELEASE DATA BLOCK *************

* SOURCE TERM NUMBER  2 OF 8

*

  222  RDATNAM2001 'EARLY HIGH'

********   RECORD NUMBER   222 REPLACES RECORD NUMBER   123   ********
*

  223  RDOALARM001   1.27E+04

********   RECORD NUMBER   223 REPLACES RECORD NUMBER   124   ********
  224  RDNUMREL001   1

********   RECORD NUMBER   224 REPLACES RECORD NUMBER   125   ********
  225  RDMAXRIS001   1

********   RECORD NUMBER   225 REPLACES RECORD NUMBER   126   ********
  226  RDREFTIM001   0.0

********   RECORD NUMBER   226 REPLACES RECORD NUMBER   127   ********
  227  RDPLHEAT001   1.03E+06

********   RECORD NUMBER   227 REPLACES RECORD NUMBER   128   ********
  228  RDPLHITE001   30.

********   RECORD NUMBER   228 REPLACES RECORD NUMBER   129   ********
  229  RDPLUDUR001   7.92E+04

********   RECORD NUMBER   229 REPLACES RECORD NUMBER   130   ********
  230  RDPDELAY001   1.20E+04

********   RECORD NUMBER   230 REPLACES RECORD NUMBER   131   ********
*           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
*

  231  RDRELFRC001 6.4E-01 1.6E-01 1.5E-01 1.5E-01 1.6E-02 6.5E-02 5.6E-04 3.0E-03
3.1E-02
********   RECORD NUMBER   231 REPLACES RECORD NUMBER   206   ********
.

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   1 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   1
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      1.97E+15
Co-60      1.51E+15
Kr-85      2.48E+16
Kr-85m     3.26E+17
Kr-87      1.71E+17
Kr-88      6.53E+17
Rb-86      1.23E+15
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Sr-89      4.93E+16
Sr-90      4.91E+15
Sr-91      4.86E+16
Sr-92      2.86E+16
Y-90       3.47E+14
Y-91       2.26E+15
Y-92       2.19E+16
Y-93       2.16E+15
Zr-95      3.01E+15
Zr-97      2.64E+15
Nb-95      3.05E+15
Mo-99      3.83E+17
Tc-99m     3.45E+17
Ru-103     3.14E+17
Ru-105     1.29E+17
Ru-106     1.10E+17
Rh-105     1.98E+17
Sb-127     5.05E+16
Sb-129     9.14E+16
Te-127     5.08E+16
Te-127m    6.71E+15
Te-129     1.08E+17
Te-129m    2.24E+16
Te-131m    6.44E+16
Te-132     6.61E+17
I-131      5.03E+17
I-132      6.96E+17
I-133      9.39E+17
I-134      8.25E+16
I-135      6.93E+17
Xe-133     3.94E+18
Xe-135     9.85E+17
Cs-134     1.07E+17
Cs-136     3.10E+16
Cs-137     6.22E+16
Ba-139     3.40E+16
Ba-140     1.72E+17
La-140     1.27E+16
La-141     1.66E+15
La-142     6.47E+14
Ce-141     1.59E+16
Ce-143     1.40E+16
Ce-144     1.26E+16
Pr-143     2.76E+15
Nd-147     1.18E+15
Np-239     1.88E+17
Pu-238     4.29E+13
Pu-239     3.66E+12
Pu-240     5.46E+12
Pu-241     1.22E+15
Am-241     2.82E+11
Cm-242     6.77E+13
Cm-244     7.22E+12


******** BEGINNING OF CHANGE CASE   2 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  3 OF 8

       *

  232  RDATNAM2001 'EARLY MEDIUM'
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********   RECORD NUMBER   232 REPLACES RECORD NUMBER   123   ********
       *

  233  RDOALARM001   9.18E+03

********   RECORD NUMBER   233 REPLACES RECORD NUMBER   124   ********
  234  RDNUMREL001   1

********   RECORD NUMBER   234 REPLACES RECORD NUMBER   125   ********
  235  RDMAXRIS001   1

********   RECORD NUMBER   235 REPLACES RECORD NUMBER   126   ********
  236  RDREFTIM001   0.0

********   RECORD NUMBER   236 REPLACES RECORD NUMBER   127   ********
  237  RDPLHEAT001   1.07E+06

********   RECORD NUMBER   237 REPLACES RECORD NUMBER   128   ********
  238  RDPLHITE001   30.

********   RECORD NUMBER   238 REPLACES RECORD NUMBER   129   ********
  239  RDPLUDUR001   8.21E+04

********   RECORD NUMBER   239 REPLACES RECORD NUMBER   130   ********
  240  RDPDELAY001   9.22E+03

********   RECORD NUMBER   240 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  241  RDRELFRC001 9.9E-01 1.3E-02 1.2E-02 2.7E-02 8.5E-04 3.0E-02 5.2E-05 3.1E-04
2.0E-02
********   RECORD NUMBER   241 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   2 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   2
NUMBER OF RECORDS CHANGED              =   10
NUMBER OF RECORDS ADDED                =    0
*******************************************************************************
****************



RELEASED INVENTORY OF ALL PLUMES
Co-58      9.11E+14
Co-60      6.96E+14
Kr-85      3.83E+16
Kr-85m     5.68E+17
Kr-87      4.02E+17
Kr-88      1.22E+18
Rb-86      9.85E+13
Sr-89      2.62E+15
Sr-90      2.61E+14
Sr-91      2.73E+15
Sr-92      1.85E+15
Y-90       2.33E+13
Y-91       2.08E+14
Y-92       1.14E+15
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Y-93       2.12E+14
Zr-95      2.79E+14
Zr-97      2.53E+14
Nb-95      2.83E+14
Mo-99      1.78E+17
Tc-99m     1.60E+17
Ru-103     1.45E+17
Ru-105     6.72E+16
Ru-106     5.07E+16
Rh-105     9.19E+16
Sb-127     9.14E+15
Sb-129     1.86E+16
Te-127     9.18E+15
Te-127m    1.21E+15
Te-129     2.13E+16
Te-129m    4.03E+15
Te-131m    1.18E+16
Te-132     1.20E+17
I-131      4.10E+16
I-132      9.30E+16
I-133      7.83E+16
I-134      1.23E+16
I-135      6.10E+16
Xe-133     6.10E+18
Xe-135     1.37E+18
Cs-134     8.59E+15
Cs-136     2.48E+15
Cs-137     4.98E+15
Ba-139     3.23E+16
Ba-140     1.11E+17
La-140     5.09E+15
La-141     1.77E+14
La-142     8.50E+13
Ce-141     1.64E+15
Ce-143     1.47E+15
Ce-144     1.30E+15
Pr-143     2.55E+14
Nd-147     1.09E+14
Np-239     1.96E+16
Pu-238     4.43E+12
Pu-239     3.78E+11
Pu-240     5.64E+11
Pu-241     1.26E+14
Am-241     2.62E+10
Cm-242     6.29E+12
Cm-244     6.71E+11


******** BEGINNING OF CHANGE CASE   3 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  4 OF 8

       *

  242  RDATNAM2001 'EARLY LOW'

********   RECORD NUMBER   242 REPLACES RECORD NUMBER   123   ********
       *

  243  RDOALARM001   9.31E+03

********   RECORD NUMBER   243 REPLACES RECORD NUMBER   124   ********
```

```
  244  RDNUMREL001   1

********   RECORD NUMBER   244 REPLACES RECORD NUMBER   125   ********
  245  RDMAXRIS001   1

********   RECORD NUMBER   245 REPLACES RECORD NUMBER   126   ********
  246  RDREFTIM001   0.0

********   RECORD NUMBER   246 REPLACES RECORD NUMBER   127   ********
  247  RDPLHEAT001   1.11E+06

********   RECORD NUMBER   247 REPLACES RECORD NUMBER   128   ********
  248  RDPLHITE001   30.

********   RECORD NUMBER   248 REPLACES RECORD NUMBER   129   ********
  249  RDPLUDUR001   8.49E+04

********   RECORD NUMBER   249 REPLACES RECORD NUMBER   130   ********
  250  RDPDELAY001   9.90E+03

********   RECORD NUMBER   250 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  251  RDRELFRC001 2.4E-01 2.0E-03 1.6E-03 2.9E-03 9.0E-05 3.0E-03 5.2E-06 3.1E-05
1.9E-03
********   RECORD NUMBER   251 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   3 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   3
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      9.11E+13
Co-60      6.96E+13
Kr-85      9.29E+15
Kr-85m     1.34E+17
Kr-87      8.79E+16
Kr-88      2.82E+17
Rb-86      1.31E+13
Sr-89      2.78E+14
Sr-90      2.76E+13
Sr-91      2.85E+14
Sr-92      1.87E+14
Y-90       2.43E+12
Y-91       2.08E+13
Y-92       1.22E+14
Y-93       2.09E+13
Zr-95      2.79E+13
Zr-97      2.51E+13
Nb-95      2.83E+13
Mo-99      1.78E+16
Tc-99m     1.60E+16
Ru-103     1.45E+16
```

```
Ru-105     6.52E+15
Ru-106     5.07E+15
Rh-105     9.18E+15
Sb-127     9.80E+14
Sb-129     1.94E+15
Te-127     9.85E+14
Te-127m    1.30E+14
Te-129     2.24E+15
Te-129m    4.32E+14
Te-131m    1.26E+15
Te-132     1.28E+16
I-131      6.31E+15
I-132      1.14E+16
I-133      1.20E+16
I-134      1.63E+15
I-135      9.20E+15
Xe-133     1.48E+18
Xe-135     3.27E+17
Cs-134     1.15E+15
Cs-136     3.31E+14
Cs-137     6.64E+14
Ba-139     2.79E+15
Ba-140     1.05E+16
La-140     5.17E+14
La-141     1.71E+13
La-142     7.81E+12
Ce-141     1.64E+14
Ce-143     1.46E+14
Ce-144     1.30E+14
Pr-143     2.56E+13
Nd-147     1.09E+13
Np-239     1.96E+15
Pu-238     4.43E+11
Pu-239     3.78E+10
Pu-240     5.64E+10
Pu-241     1.26E+13
Am-241     2.62E+09
Cm-242     6.29E+11
Cm-244     6.71E+10


******** BEGINNING OF CHANGE CASE   4 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  5 OF 8

       *

  252  RDATNAM2001 'LATE HIGH'

********   RECORD NUMBER   252 REPLACES RECORD NUMBER   123   ********
       *

  253  RDOALARM001   5.58E+03

********   RECORD NUMBER   253 REPLACES RECORD NUMBER   124   ********
  254  RDNUMREL001   1

********   RECORD NUMBER   254 REPLACES RECORD NUMBER   125   ********
  255  RDMAXRIS001   1

********   RECORD NUMBER   255 REPLACES RECORD NUMBER   126   ********
  256  RDREFTIM001   0.5
```

```
********   RECORD NUMBER   256 REPLACES RECORD NUMBER   127   ********
  257  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   257 REPLACES RECORD NUMBER   128   ********
  258  RDPLHITE001   30.

********   RECORD NUMBER   258 REPLACES RECORD NUMBER   129   ********
  259  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   259 REPLACES RECORD NUMBER   130   ********
  260  RDPDELAY001   7.38E+04

********   RECORD NUMBER   260 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  261  RDRELFRC001 9.9E-01 1.2E-01 2.3E-02 4.8E-03 2.1E-04 3.7E-03 1.3E-05 1.2E-04
9.1E-04
********   RECORD NUMBER   261 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   4 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   4
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      1.11E+14
Co-60      8.58E+13
Kr-85      3.83E+16
Kr-85m     5.52E+15
Kr-87      3.29E+10
Kr-88      8.17E+14
Rb-86      1.80E+14
Sr-89      6.37E+14
Sr-90      6.45E+13
Sr-91      7.59E+13
Sr-92      2.16E+11
Y-90       2.21E+13
Y-91       5.30E+13
Y-92       4.34E+12
Y-93       6.78E+12
Zr-95      6.89E+13
Zr-97      1.85E+13
Nb-95      7.08E+13
Mo-99      1.61E+16
Tc-99m     1.54E+16
Ru-103     1.75E+16
Ru-105     7.74E+13
Ru-106     6.24E+15
Rh-105     6.95E+15
Sb-127     1.30E+15
Sb-129     2.71E+13
Te-127     1.39E+15
Te-127m    2.15E+14
```

```
Te-129     4.85E+14
Te-129m    7.01E+14
Te-131m    1.05E+15
Te-132     1.63E+16
I-131      3.40E+17
I-132      1.69E+16
I-133      2.67E+17
I-134      5.97E+06
I-135      2.44E+16
Xe-133     5.25E+18
Xe-135     2.23E+17
Cs-134     1.64E+16
Cs-136     4.45E+15
Cs-137     9.54E+15
Ba-139     4.25E+08
Ba-140     4.72E+15
La-140     2.13E+15
La-141     2.25E+11
La-142     3.03E+07
Ce-141     6.19E+14
Ce-143     3.03E+14
Ce-144     5.01E+14
Pr-143     8.69E+13
Nd-147     2.53E+13
Np-239     5.26E+15
Pu-238     1.72E+12
Pu-239     1.47E+11
Pu-240     2.18E+11
Pu-241     4.90E+13
Am-241     6.83E+09
Cm-242     1.56E+12
Cm-244     1.68E+11


******** BEGINNING OF CHANGE CASE   5 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  6 OF 8

       *

  262  RDATNAM2001 'LATE MEDIUM'

********   RECORD NUMBER   262 REPLACES RECORD NUMBER   123   ********
       *

  263  RDOALARM001   7.17E+03

********   RECORD NUMBER   263 REPLACES RECORD NUMBER   124   ********
  264  RDNUMREL001   1

********   RECORD NUMBER   264 REPLACES RECORD NUMBER   125   ********
  265  RDMAXRIS001   1

********   RECORD NUMBER   265 REPLACES RECORD NUMBER   126   ********
  266  RDREFTIM001   0.5

********   RECORD NUMBER   266 REPLACES RECORD NUMBER   127   ********
  267  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   267 REPLACES RECORD NUMBER   128   ********
  268  RDPLHITE001   30.
```

```
********   RECORD NUMBER   268 REPLACES RECORD NUMBER   129   ********
  269  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   269 REPLACES RECORD NUMBER   130   ********
  270  RDPDELAY001   7.70E+04

********   RECORD NUMBER   270 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  271  RDRELFRC001 8.2E-01 1.5E-02 4.3E-03 1.5E-03 8.0E-05 1.4E-03 5.1E-06 4.7E-05
3.5E-04
********   RECORD NUMBER   271 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   5 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   5
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

```
RELEASED INVENTORY OF ALL PLUMES
Co-58      4.20E+13
Co-60      3.25E+13
Kr-85      3.17E+16
Kr-85m     3.99E+15
Kr-87      1.68E+10
Kr-88      5.45E+14
Rb-86      3.36E+13
Sr-89      2.43E+14
Sr-90      2.46E+13
Sr-91      2.71E+13
Sr-92      6.55E+10
Y-90       8.59E+12
Y-91       2.08E+13
Y-92       1.40E+12
Y-93       2.50E+12
Zr-95      2.70E+13
Zr-97      7.02E+12
Nb-95      2.78E+13
Mo-99      6.02E+15
Tc-99m     5.79E+15
Ru-103     6.63E+15
Ru-105     2.55E+13
Ru-106     2.36E+15
Rh-105     2.59E+15
Sb-127     4.03E+14
Sb-129     7.35E+12
Te-127     4.33E+14
Te-127m    6.72E+13
Te-129     1.50E+14
Te-129m    2.19E+14
Te-131m    3.22E+14
Te-132     5.07E+15
I-131      4.24E+16
I-132      5.22E+15
I-133      3.23E+16
```

```
I-134      3.70E+05
I-135      2.78E+15
Xe-133     4.27E+18
Xe-135     1.17E+17
Cs-134     3.07E+15
Cs-136     8.31E+14
Cs-137     1.78E+15
Ba-139     1.05E+08
Ba-140     1.81E+15
La-140     8.36E+14
La-141     7.54E+10
La-142     7.97E+06
Ce-141     2.42E+14
Ce-143     1.16E+14
Ce-144     1.96E+14
Pr-143     3.42E+13
Nd-147     9.90E+12
Np-239     2.04E+15
Pu-238     6.72E+11
Pu-239     5.76E+10
Pu-240     8.55E+10
Pu-241     1.92E+13
Am-241     2.68E+09
Cm-242     6.13E+11
Cm-244     6.58E+10


******** BEGINNING OF CHANGE CASE   6 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  7 OF 8

       *

  272  RDATNAM2001 'LATE LOW'

********   RECORD NUMBER   272 REPLACES RECORD NUMBER   123   ********
       *

  273  RDOALARM001   2.19E+04

********   RECORD NUMBER   273 REPLACES RECORD NUMBER   124   ********
  274  RDNUMREL001   1

********   RECORD NUMBER   274 REPLACES RECORD NUMBER   125   ********
  275  RDMAXRIS001   1

********   RECORD NUMBER   275 REPLACES RECORD NUMBER   126   ********
  276  RDREFTIM001   0.5

********   RECORD NUMBER   276 REPLACES RECORD NUMBER   127   ********
  277  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   277 REPLACES RECORD NUMBER   128   ********
  278  RDPLHITE001   30.

********   RECORD NUMBER   278 REPLACES RECORD NUMBER   129   ********
  279  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   279 REPLACES RECORD NUMBER   130   ********
  280  RDPDELAY001   9.13E+04

********   RECORD NUMBER   280 REPLACES RECORD NUMBER   131   ********
```

```
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  281  RDRELFRC001 7.0E-01 1.1E-03 7.9E-04 1.2E-03 8.7E-05 3.5E-06 2.6E-06 2.4E-05
7.4E-05
********   RECORD NUMBER   281 REPLACES RECORD NUMBER   206   ********
       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE   6 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE   6
NUMBER OF RECORDS CHANGED             =   10
NUMBER OF RECORDS ADDED               =    0
*******************************************************************************
****************
```

RELEASED INVENTORY OF ALL PLUMES

Co-58	1.05E+11
Co-60	8.12E+10
Kr-85	2.71E+16
Kr-85m	1.84E+15
Kr-87	1.64E+09
Kr-88	1.76E+14
Rb-86	6.14E+12
Sr-89	2.63E+14
Sr-90	2.67E+13
Sr-91	2.20E+13
Sr-92	2.58E+10
Y-90	9.44E+12
Y-91	1.10E+13
Y-92	7.15E+11
Y-93	9.71E+11
Zr-95	1.38E+13
Zr-97	3.04E+12
Nb-95	1.42E+13
Mo-99	1.44E+13
Tc-99m	1.39E+13
Ru-103	1.65E+13
Ru-105	3.43E+10
Ru-106	5.90E+12
Rh-105	5.98E+12
Sb-127	3.13E+14
Sb-129	3.11E+12
Te-127	3.38E+14
Te-127m	5.37E+13
Te-129	1.17E+14
Te-129m	1.75E+14
Te-131m	2.35E+14
Te-132	3.91E+15
I-131	3.09E+15
I-132	4.03E+15
I-133	2.08E+15
I-134	1.17E+03
I-135	1.34E+14
Xe-133	3.56E+18
Xe-135	6.83E+16
Cs-134	5.65E+14
Cs-136	1.51E+14
Cs-137	3.28E+14

```
Ba-139     3.00E+06
Ba-140     3.79E+14
La-140     1.95E+14
La-141     1.91E+10
La-142     6.81E+05
Ce-141     1.23E+14
Ce-143     5.46E+13
Ce-144     1.00E+14
Pr-143     1.78E+13
Nd-147     5.00E+12
Np-239     9.91E+14
Pu-238     3.43E+11
Pu-239     2.94E+10
Pu-240     4.37E+10
Pu-241     9.79E+12
Am-241     1.37E+09
Cm-242     3.13E+11
Cm-244     3.35E+10


******** BEGINNING OF CHANGE CASE   7 USER INPUT ********
       ********************** RELEASE DATA BLOCK *************

       * SOURCE TERM NUMBER  8 OF 8

       *

  282  RDATNAM2001 'LATE LOWLOW'

********   RECORD NUMBER   282 REPLACES RECORD NUMBER   123   ********
       *

  283  RDOALARM001   2.56E+04

********   RECORD NUMBER   283 REPLACES RECORD NUMBER   124   ********
  284  RDNUMREL001   1

********   RECORD NUMBER   284 REPLACES RECORD NUMBER   125   ********
  285  RDMAXRIS001   1

********   RECORD NUMBER   285 REPLACES RECORD NUMBER   126   ********
  286  RDREFTIM001   0.5

********   RECORD NUMBER   286 REPLACES RECORD NUMBER   127   ********
  287  RDPLHEAT001   9.20E+05

********   RECORD NUMBER   287 REPLACES RECORD NUMBER   128   ********
  288  RDPLHITE001   30.

********   RECORD NUMBER   288 REPLACES RECORD NUMBER   129   ********
  289  RDPLUDUR001   8.64E+04

********   RECORD NUMBER   289 REPLACES RECORD NUMBER   130   ********
  290  RDPDELAY001   1.13E+05

********   RECORD NUMBER   290 REPLACES RECORD NUMBER   131   ********
       *           Xe/Kr   I       Cs      Te      Sr      Ru      La      Ce
Ba
       *

  291  RDRELFRC001 9.1E-01 8.1E-04 7.0E-04 7.6E-04 3.6E-05 2.1E-06 1.1E-06 1.2E-05
3.3E-05
********   RECORD NUMBER   291 REPLACES RECORD NUMBER   206   ********
```

.

******** TERMINATOR RECORD ENCOUNTERED -- END OF CHANGE CASE 7 USER INPUT ********

USER INPUT PROCESSING SUMMARY - CHANGE CASE 7
NUMBER OF RECORDS CHANGED = 10
NUMBER OF RECORDS ADDED = 0
****

RELEASED INVENTORY OF ALL PLUMES

Co-58	6.27E+10
Co-60	4.87E+10
Kr-85	3.52E+16
Kr-85m	9.42E+14
Kr-87	8.00E+07
Kr-88	5.27E+13
Rb-86	5.39E+12
Sr-89	1.09E+14
Sr-90	1.11E+13
Sr-91	5.88E+12
Sr-92	2.28E+09
Y-90	4.36E+12
Y-91	4.66E+12
Y-92	9.41E+10
Y-93	2.72E+11
Zr-95	5.80E+12
Zr-97	1.00E+12
Nb-95	5.99E+12
Mo-99	8.14E+12
Tc-99m	7.83E+12
Ru-103	9.87E+12
Ru-105	8.02E+09
Ru-106	3.54E+12
Rh-105	3.19E+12
Sb-127	1.89E+14
Sb-129	7.49E+11
Te-127	2.06E+14
Te-127m	3.40E+13
Te-129	7.24E+13
Te-129m	1.10E+14
Te-131m	1.29E+14
Te-132	2.35E+15
I-131	2.23E+15
I-132	2.42E+15
I-133	1.25E+15
I-134	7.35E+00
I-135	5.26E+13
Xe-133	4.48E+18
Xe-135	5.59E+16
Cs-134	5.00E+14
Cs-136	1.32E+14
Cs-137	2.90E+14
Ba-139	6.46E+04
Ba-140	1.67E+14
La-140	9.47E+13
La-141	2.79E+09
La-142	1.92E+04
Ce-141	6.13E+13
Ce-143	2.41E+13

```
Ce-144     5.01E+13
Pr-143     8.24E+12
Nd-147     2.08E+12
Np-239     4.60E+14
Pu-238     1.72E+11
Pu-239     1.47E+10
Pu-240     2.18E+10
Pu-241     4.89E+12
Am-241     5.92E+08
Cm-242     1.32E+11
Cm-244     1.42E+10


USER INPUT IS READ FROM UNIT 25
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                    RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "EARLY" INPUT FILE

       *

    1  MIEANAM1001 'EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES'

    2  DCF_FILE001 'DOSDATA.INP'  (DCF file of MACCS 1.5.11.1)

       *

       *             ORGNAM         ORGFLG

       *

    3  MIORGDEF001  'A-SKIN'        .TRUE.

    4  MIORGDEF002  'A-RED MARR'    .TRUE.

    5  MIORGDEF003  'A-LUNGS'       .TRUE.

    6  MIORGDEF004  'A-THYROIDH'    .TRUE.

    7  MIORGDEF005  'A-STOMACH'     .TRUE.

    8  MIORGDEF006  'A-LOWER LI'    .FALSE.  (does not contribute to early
fatalities)
    9  MIORGDEF007  'L-EDEWBODY'    .TRUE.

   10  MIORGDEF008  'L-RED MARR'    .TRUE.

   11  MIORGDEF009  'L-BONE SUR'    .TRUE.

   12  MIORGDEF010  'L-BREAST'      .TRUE.

   13  MIORGDEF011  'L-LUNGS'       .TRUE.

   14  MIORGDEF012  'L-THYROID'     .TRUE.

   15  MIORGDEF013  'L-LOWER LI'    .TRUE.

   16  MIORGDEF014  'L-BLAD WAL'    .TRUE.
```

```
17  MIORGDEF015  'L-LIVER'       .FALSE.
18  MIORGDEF016  'L-THYROIDH'    .TRUE.
    *
    * FLAG TO INDICATE THAT THIS IS THE LAST PROGRAM IN THE SERIES TO BE RUN
    *
19  MIENDAT2001  .FALSE.    (SET THIS VALUE TO .TRUE. TO SKIP CHRONC)
    *
    * DISPERSION MODEL OPTION CODE:  1  *  STRAIGHT LINE
    *                                2  *  WIND-SHIFT WITH ROTATION
    *                                3  *  WIND-SHIFT WITHOUT ROTATION
    *
20  MIIPLUME001  2
    *
    * NUMBER OF FINE GRID SUBDIVISIONS USED BY THE MODEL
    *
21  MINUMFIN001  7    (3, 5 OR 7 ALLOWED)
    *
    * LEVEL OF DEBUG OUTPUT REQUIRED, NORMAL RUNS SHOULD SPECIFY ZERO
    *
22  MIIPRINT001  0
    *
    * LOGICAL FLAG SIGNIFYING THAT THE BREAKDOWN OF RISK BY WEATHER CATEGORY
    * BIN ARE TO BE PRESENTED TO SHOW THEIR RELATIVE CONTRIBUTION TO THE MEAN
    *
    *             RISBIN
    *
23  MIRISCAT001   .FALSE.
    *
    * FLAG INDICATING IF WIND-ROSES FROM ATMOS ARE TO BE OVERRIDDEN
    *
24  MIOVRRID001  .FALSE.  (USE THE WIND ROSE CALCULATED FOR EACH WEATHER BIN)
```

```
*******************************************************************************
      * POPULATION DISTRIBUTION DATA BLOCK, LOADED BY INPOPU, STORED IN /POPDAT/
      *
   25 PDPOPFLG001  FILE
      *
      *PDPOPFLG001  UNIFORM
      *PDIBEGIN001  1   (SPATIAL INTERVAL AT WHICH POPULATION BEGINS)
      *PDPOPDEN001  50. (POPULATION DENSITY (PEOPLE PER SQUARE KILOMETER))

*******************************************************************************
      * SHIELDING AND EXPOSURE FACTORS, LOADED BY INDFAC, STORED IN /EADFAC/
      *
      * THREE VALUES OF EACH PROTECTION FACTOR ARE SUPPLIED,
      * ONE FOR EACH TYPE OF ACTIVTY:
      *
      * ACTIVITY TYPE:
      *     1 - EVACUEES WHILE MOVING
      *     2 - NORMAL ACTIVITY IN SHELTERING AND EVACUATION ZONE
      *     3 - SHELTERED ACTIVITY
      *
      * CLOUD SHIELDING FACTOR
      *
      *    SITE        GG   PB   SEQ  SUR  ZION
      *    SHELTERING  0.7  0.5  0.65 0.6  0.5
      *
      *            EVACUEES  NORMAL  SHELTER
      *
   26 SECSFACT001      1.     0.75     0.6   *  SURRY SHELTERING VALUE
      *
      * PROTECTION FACTOR FOR INHALATION
      *
   27 SEPROTIN001      1.     0.41      0.33  * VALUES FOR NORMAL ACTIVITY AND
```

```
*                                          SHELTERING SELECTED BY NRC STAFF
*
* BREATHING RATE (CUBIC METERS PER SECOND)
*
28  SEBRRATE001  2.66E-4  2.66E-4  2.66E-4
*
* SKIN PROTECTION FACTOR
*
29  SESKPFAC001  1.0      0.41     0.33    * VALUES FOR NORMAL ACTIVITY AND
*                                            SHELTERING SELECTED BY NRC STAFF
*
* GROUND SHIELDING FACTOR
*
*    SITE        GG   PB   SEQ  SUR  ZION
*    SHELTERING  0.25 0.1  0.2  0.2  0.1
*
30  SEGSHFAC001      0.5    0.4    0.2   * VALUE FOR NORMAL ACTIVITY SELECTED BY
*                                           NRC STAFF
*
* RESUSPENSION INHALATION MODEL CONCENTRATION COEFFICIENT (/METER)
*
*   RESCON = 1.E-4 IS APPROPRIATE FOR MECHANICAL RESUSPENSION BY VEHICLES.
*   RESHAF = 2.11 DAYS CAUSES 1.E-4 TO DECAY IN ONE WEEK TO 1.E-5, THE VALUE
*   OF RESCON USED IN THE FIRST TERM OF THE LONG-TERM RESUSPENSION EQUATION
*   USED IN CHRONC.
*
31  SERESCON001   1.E-4     (RESUSPENSION IS TURNED ON)
*
* RESUSPENSION CONCENTRATION COEFFICIENT HALF-LIFE (SEC)
*
32  SERESHAF001   1.82E5    (2.11 DAYS)
```

```
*****************************************************************************
      * EVACUATION ZONE DATA BLOCK, LOADED BY EVNETW, STORED IN /NETWOR/, /EOPTIO/
      *
      * SPECIFIC DESCRIPTION OF THE EMERGENCY RESPONSE SCENARIO BEING USED
      *
   33 EZEANAM2001  'NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE'
      *
      * THE TYPE OF WEIGHTING TO BE APPLIED TO THE EMERGENCY RESPONSE SCENARIOS
      * YOU MUST SUPPLY A VALUE OF 'TIME' OR 'PEOPLE'
      *
   34 EZWTNAME001  'PEOPLE'
      *
      * WEIGHTING FRACTION APPLICABLE TO THIS SCENARIO
      *
   35 EZWTFRAC001  1.00
      *
      * LAST RING IN THE MOVEMENT ZONE
      *
   36 EZLASMOV001     0   (A ZERO TURNS OFF THE EVACUATION MODEL)
      *
      ***********************************************************************
      * SHELTER AND RELOCATION ZONE DATA BLOCK, LOADED BY INPEMR,
      *                                         STORED IN /INPSRZ/, /RELOCA/
      *
      * DURATION OF THE EMERGENCY PHASE (SECONDS FROM PLUME ARRIVAL)
      *
   37 SRENDEMP001  604800.   (ONE WEEK)
      *
      * CRITICAL ORGAN FOR RELOCATION DECISIONS
      *
   38 SRCRIORG001 'L-EDEWBODY'
```

```
     *
     * HOT SPOT RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
39   SRTIMHOT001  43200.    (ONE-HALF DAY)
     *
     * NORMAL RELOCATION TIME (SECONDS FROM PLUME ARRIVAL)
     *
40   SRTIMNRM001  86400.    (ONE DAY)
     *
     * HOT SPOT RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
41   SRDOSHOT001  0.5    (50 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
     *
     * NORMAL RELOCATION DOSE CRITERION THRESHOLD (SIEVERTS)
     *
42   SRDOSNRM001  0.25   (25 REM DOSE TO WHOLE BODY IN 1 WEEK TRIGGERS RELOCATION)
*******************************************************************************
     * EARLY FATALITY MODEL PARAMETERS, LOADED BY INEFAT, STORED IN /EFATAL/
     *
     * NUMBER OF EARLY FATALITY EFFECTS
     *
43   EFNUMEFA001   2
     *
     *            ORGNAM       EFFACA   EFFACB   EFFTHR
     *
44   EFATAGRP001 'A-RED MARR'      3.8      5.0    1.5
45   EFATAGRP002 'A-LUNGS'        10.0      7.0    5.0
*******************************************************************************
     * EARLY INJURY MODEL PARAMETERS, LOADED BY INEINJ, STORED IN /EINJUR/
     *
     * NUMBER OF EARLY INJURY EFFECTS
```

```
    *
46  EINUMEIN001  7
    *
    *            EINAME           ORGNAM   EISUSC EITHRE EIFACA EIFACB
    *
47  EINJUGRP001 'PRODROMAL VOMIT' 'A-STOMACH'  1.     .5     2.     3.
48  EINJUGRP002 'DIARRHEA'        'A-STOMACH'  1.     1.     3.     2.5
49  EINJUGRP003 'PNEUMONITIS'     'A-LUNGS'    1.     5.    10.     7.
50  EINJUGRP004 'SKIN ERYTHEMA'   'A-SKIN'     1.     3.     6.     5.
51  EINJUGRP005 'TRANSEPIDERMAL'  'A-SKIN'     1.    10.    20.     5.
52  EINJUGRP006 'THYROIDITIS'     'A-THYROIDH' 1.    40.   240.     2.
53  EINJUGRP007 'HYPOTHYROIDISM'  'A-THYROIDH' 1.     2.    60.     1.3

*******************************************************************************
    * ACUTE EXPOSURE CANCER PARAMETERS, LOADED BY INACAN STORED IN /ACANCR/.
    *
    * NUMBER OF ACUTE EXPOSURE CANCER EFFECTS
    *
54  LCNUMACA001   7
    *
    * THRESHOLD DOSE FOR APPLYING THE DOSE DEPENDENT REDUCTION FACTOR
    *
55  LCDDTHRE001   0.2  (LOWEST DOSE FOR WHICH DDREFA WILL BE APPLIED)
    *
    * DOSE THRESHOLD FOR LINEAR DOSE RESPONSE (Sv)
    *
56  LCACTHRE001   0.0  (LINEAR-QUADRATIC MODEL IS NOT BEING USED)
    *
    *            ACNAME     ORGNAM  ACSUSC DOSEFA DOSEFB CFRISK   CIRISK  DDREFA
    *
57  LCANCERS001 'LEUKEMIA' 'L-RED MARR'  1.0   1.0   0.0   9.70E-3   0.0     2.0
58  LCANCERS002 'BONE'     'L-BONE SUR'  1.0   1.0   0.0   9.00E-4   0.0     2.0
```

```
59  LCANCERS003 'BREAST'   'L-BREAST'    1.0   1.0   0.0   5.40E-3   1.7E-2  1.0
60  LCANCERS004 'LUNG'     'L-LUNGS'     1.0   1.0   0.0   1.55E-2   0.0     2.0
61  LCANCERS005 'THYROID'  'L-THYROIDH'  1.0   1.0   0.0   7.20E-4   7.2E-3  1.0
62  LCANCERS006 'GI'       'L-LOWER LI'  1.0   1.0   0.0   3.36E-2   0.0     2.0
63  LCANCERS007 'OTHER'    'L-EDEWBODY'  1.0   1.0   0.0   2.76E-2   0.0     2.0

*******************************************************************************
      * RESULT 1 OPTIONS BLOCK, LOADED BY INOUT1, STORED IN /INOUT1/
      * TOTAL NUMBER OF A GIVEN EFFECT (LATENT CANCER, EARLY DEATH, EARLY INJURY)
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
64  TYPE1NUMBER    4
      *
65  TYPE1OUT001    'ERL FAT/TOTAL'                1  15   NOCCDF (0 TO 50 MILES)
66  TYPE1OUT009    'CAN FAT/TOTAL'                1  15   NOCCDF
67  TYPE1OUT019    'CAN FAT/TOTAL'                1  11   NOCCDF (0 TO 10 MILES)
68  TYPE1OUT020    'ERL FAT/TOTAL'                1  11          (0 TO 10 MILES)

*******************************************************************************
      * RESULT 2 OPTIONS BLOCK, LOADED BY INOUT2, STORED IN /INOUT2/
      * FURTHEST DISTANCE AT WHICH A GIVEN RISK OF EARLY DEATH IS EXCEEDED.
      *
      * NUMBER OF DESIRED RESULTS OF THIS TYPE
      *
69  TYPE2NUMBER  0
      *
      *            FATALITY RISK THRESHOLD
      *
      *TYPE2OUT001  0.

*******************************************************************************
      * RESULT 3 OPTIONS BLOCK, LOADED BY INOUT3, STORED IN /INOUT3/
```

```
     * NUMBER OF PEOPLE WHOSE DOSE TO A GIVEN ORGAN EXCEEDS A GIVEN THRESHOLD.
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  70 TYPE3NUMBER  0
     *
     *               ORGAN NAME   DOSE THRESHOLD (Sv)
     *
     *TYPE3OUT001    'A-RED MARR'        1.5
     *TYPE3OUT002    'A-LUNGS'           5.0
     *TYPE3OUT003    'L-EDEWBODY'        0.05

*******************************************************************************
     * RESULT 4 OPTIONS BLOCK, LOADED BY INOUT4, STORED IN /INOUT4/
     * 360 DEGREE AVERAGE RISK OF A GIVEN EFFECT AT A GIVEN DISTANCE.
     *
     * POSSIBLE TYPES OF EFFECTS ARE:
     *
     *   'ERL FAT/TOTAL'
     *   'ERL INJ/INJURY NAME'
     *   'CAN FAT/CANCER NAME'
     *   'CAN FAT/TOTAL'
     *
     * NUMBER OF DESIRED RESULTS OF THIS TYPE
     *
  71 TYPE4NUMBER  3
     *
     *            RADIAL INDEX   TYPE OF EFFECT
     *
  72 TYPE4OUT001       1         'ERL FAT/TOTAL'
  73 TYPE4OUT002       2         'ERL FAT/TOTAL'
  74 TYPE4OUT003       3         'ERL FAT/TOTAL'
```

```
*******************************************************************************
       * RESULT 5 OPTIONS BLOCK, LOADED BY INOUT5, STORED IN /INOUT5/
       *
       * TOTAL POPULATION DOSE TO A GIVEN ORGAN BETWEEN TWO DISTANCES.
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   75  TYPE5NUMBER     1
       *
       *             ORGAN      I1DIS5     I2DIS5
       *
   76  TYPE5OUT001 'L-EDEWBODY'      1         15     NOCCDF    (0-50 MILES)

*******************************************************************************
       * RESULT 6 OPTIONS BLOCK, LOADED BY INOUT6, STORED IN /INOUT6/
       *
       * CENTERLINE DOSE TO AN ORGAN VS DIST BY PATHWAY, PATHWAY NAMES ARE AS
FOLLOWS:
       *
       *  PATHWAY NAME:
       *    'CLD'     - CLOUDSHINE
       *    'GRD'     - GROUNDSHINE
       *    'INH ACU' - "ACUTE DOSE EQUIVALENT" FROM DIRECT INHALATION OF THE CLOUD
       *    'INH LIF' - "LIFETIME DOSE COMMITMENT" FROM DIRECT INHALATION OF THE
CLOUD
       *    'RES ACU' - "ACUTE DOSE EQUIVALENT" FROM RESUSPENSION INHALATION
       *    'RES LIF' - "LIFETIME DOSE COMMITMENT" FROM RESUSPENSION INHALATION
       *    'TOT ACU' - "ACUTE DOSE EQUIVALENT" FROM ALL PATHWAYS
       *    'TOT LIF' - "LIFETIME DOSE COMMITMENT" FROM ALL PATHWAYS
       *
       * NUMBER OF DESIRED RESULTS OF THIS TYPE
       *
   77  TYPE6NUMBER     0
```

```
*
*             ORGNAM        PATHNM      I1DIS6   I2DIS6
*
*TYPE6OUT001  'A-RED MARR'    'TOT ACU'      1       19     (0-50 MILES)
*TYPE6OUT002  'A-LUNGS'       'TOT ACU'      1       19     (0-50 MILES)
*TYPE6OUT003  'L-EDEWBODY'    'TOT LIF'      1       26     (0-1000 MILES)

*******************************************************************************
* RESULT 7 OPTIONS BLOCK, LOADED BY INOUT7, STORED IN /INOUT7/
*
* CENTERLINE RISK OF A GIVEN EFFECT VS DISTANCE
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE7NUMBER   0
*
*                    NAME           I1DIS7       I2DIS7
*
*TYPE7OUT001     'ERL FAT/TOTAL'        1           19       (0-50 MILES)
*TYPE7OUT002     'CAN FAT/TOTAL'        1           26       (0-1000 MILES)

*******************************************************************************
* RESULT 8 OPTIONS BLOCK, LOADED BY INOUT8, STORED IN /INOUT8/
*
* POPULATION WEIGHTED FATALITY RISK BETWEEN 2 DISTANCES
*
* NUMBER OF DESIRED RESULTS OF THIS TYPE
*
TYPE8NUMBER   2
*
*                NAME       I1DIS8  I2DIS8
*
TYPE8OUT001 'ERL FAT/TOTAL'   1       3     NOCCDF
```

```
   81  TYPE8OUT002 'CAN FAT/TOTAL'   1      11     NOCCDF  (0-10 MILES)

*******************************************************************************

       * RESULT A OPTIONS BLOCK, LOADED BY INOUTA, STORED IN /INOUTA/

       *

       * peak dose to a given organ

       *

       *            NUMA

   82  TYPEANUMBER   0

       *

       *              ORGNAM    I1DISA  I2DISA

       *TYPEAOUT001 'L-EDEWBODY'  1       15

       .

******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  341
NUMBER OF BLANK OR COMMENT RECORDS READ         =  258
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   82
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   82
*******************************************************************************
****************



The list of defined organs is as follows (A- is ACUTE and L- is LIFETIME):
   A-SKIN
   A-RED MARR
   A-LUNGS
   A-THYROIDH
   A-STOMACH
   L-EDEWBODY
   L-RED MARR
   L-BONE SUR
   L-BREAST
   L-LUNGS
   L-THYROID
   L-LOWER LI
   L-BLAD WAL
   L-THYROIDH
Am using a DOSFAC/DOSFAC2/IDCF2 dose factor file

READING FROM A DOSE CONVERSION FILE WITH THE FOLLOWING HEADER:
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47
Seven new organs added with MACCS Version 1.5.11.1
```

```
NO EVACUATION REQUESTED


USING THE FOLLOWING SITE DATA FILE:

MACCS2 Site Data File for Indian Point Energy Center
SITE FILE
  15 SPATIAL INTERVALS
  16 WIND DIRECTIONS
   7 CROP CATEGORIES
   4 WATER PATHWAY ISOTOPES
   1 WATERSHEDS
  21 ECONOMIC REGIONS
 SPATIAL DISTANCES     KILOMETERS
    0.3219    1.6093    3.2187    4.8280    6.4374    8.0467    9.6561   11.2654
   12.8748   14.4841   16.0935   32.1869   48.2804   64.3739   80.4674
 POPULATION
        6.        0.      271.     2059.     2501.      909.      931.     1223.
     1389.     1503.     1696.    22955.    30654.    39620.    51057.0
       16.        7.      170.     1943.     2912.     2051.     1177.     1388.
     1577.     1798.     1913.    28140.    39917.    56226.    67213.0
       17.      193.      883.     2131.     2964.     3843.     3910.     3059.
     2464.     1998.     1915.    29419.    53692.    62559.    41261.0
       17.      364.     1275.     2132.     2977.     3453.     4507.     5282.
     6140.     6960.     7279.    74856.   119073.   152175.   176338.0
       17.      390.     1218.     2138.     2934.     3792.     4424.     5513.
     5587.     7201.     8076.   118335.   156720.   200581.   208394.0
       17.      409.     1256.     2136.     2970.     3592.     3698.     3857.
     5734.     6783.     7409.   121515.   144267.    54180.    34361.0
       17.      410.     1274.     2138.     2872.     3808.     4537.     5279.
     6284.     7194.     8060.   111946.    87735.   236426.   379990.0
       17.      360.     1268.     1645.      882.      495.       15.     1442.
      948.     1911.     3214.    98326.   481703.  1380249.  1218170.0
       17.      400.      701.      246.      124.      620.     1538.     3253.
     4129.     4455.     5138.   135211.  1164596.  3732339.  3164306.0
       17.      377.      562.      500.     1700.     2882.     3544.     4187.
     4873.     5517.     6159.   202605.   395389.   922649.  1034467.0
       17.      217.      187.     1566.     2274.     2916.     3574.     4188.
     4361.     5358.     6138.   183372.   276902.   197362.   246076.0
        9.        0.      620.     1623.     2197.     2924.     3550.     4014.
     4196.     4255.     4335.    64428.   209197.   109102.    85849.0
        3.        0.      855.     1602.     2267.     2815.     2368.     1787.
     1423.     1775.     2030.    32026.    50974.    61380.    57384.0
        2.        0.      938.     1624.     2245.     1341.     1135.     1419.
     1505.     1756.     2071.    32528.    54577.    57977.    29719.0
        2.       45.      974.     1589.     1933.      972.     1140.     1351.
     1541.     1781.     2093.    32572.    54557.    24046.    22317.0
        3.       50.      809.     1051.     1587.      740.     1204.     1407.
     1620.     1787.     2028.    31660.    32569.    27599.    34374.0
 LAND FRACTION
 0.37 0.00 0.23 0.96 0.99 0.94 0.78 0.87 0.85 0.81 0.82 0.83 0.94 0.94 0.93
 0.92 0.02 0.13 0.91 0.97 0.98 1.00 1.00 0.98 0.99 0.94 0.95 0.99 0.99 0.98
 1.00 0.47 0.69 1.00 0.99 1.00 0.98 0.96 0.95 1.00 0.94 0.91 0.94 0.95 0.96
 1.00 0.89 0.99 1.00 0.99 0.90 0.96 0.95 0.96 0.96 0.97 0.91 0.92 0.95 0.98
 1.00 0.95 0.95 1.00 0.98 0.99 0.94 0.99 0.87 0.99 0.99 0.92 0.97 0.97 0.78
 1.00 1.00 0.98 1.00 0.99 0.93 0.79 0.69 0.89 0.93 0.91 0.97 0.95 0.27 0.12
 1.00 1.00 0.99 1.00 0.96 0.99 0.96 0.95 0.98 0.99 0.99 0.93 0.53 0.48 0.98
 1.00 0.88 0.99 0.77 0.29 0.13 0.00 0.26 0.16 0.30 0.43 0.77 0.70 0.79 0.82
 1.00 0.97 0.55 0.12 0.05 0.21 0.43 0.77 0.85 0.81 0.83 0.84 0.87 0.81 0.59
 1.00 0.92 0.44 0.31 0.75 0.99 0.99 0.99 1.00 1.00 1.00 0.99 0.99 0.93 0.92
 1.00 0.53 0.18 0.96 1.00 1.00 1.00 0.99 0.89 0.97 0.99 0.98 0.93 0.90 0.94
 0.52 0.00 0.64 1.00 0.97 1.00 0.99 0.95 0.91 0.92 0.94 0.94 0.93 0.97 0.94
 0.19 0.00 0.88 0.99 1.00 1.00 1.00 0.98 0.86 0.95 0.97 0.97 0.98 0.97 0.97
```

```
 0.13 0.00 0.96 1.00 1.00 0.99 0.94 0.99 0.91 0.94 0.99 0.98 0.99 0.97 0.95
 0.14 0.14 1.00 0.98 0.99 0.98 0.94 0.94 0.93 0.95 1.00 0.98 0.99 0.99 0.96
 0.20 0.16 0.83 0.57 0.65 0.75 0.99 0.98 0.98 0.95 0.97 0.96 0.96 0.99 0.96
 REGION INDEX
2021202020141414141314060606060
2021202020141414141414140606060
2020202020202014141414140603030
2020202020202020202020200101040
2020202020202020202020200101040
2020202020202020202020200101170
2020202020202020202020200112170
2020202020202120202020202012120
2020202021161616161616160215110
2020201616161616161616020205100
2020161616161616161616160807070
2021161616161616161616130809090
2021161616161313131313131309090
2021161616131313131313131313180
2016161616131313131313131318180
2016161620131313131313131919190
 WATERSHED INDEX
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 CROP SEASON AND SHARE
   1 PASTURE               90. 270.  0.0162
   2 STORED FORAGE        150. 240.  0.0480
   3 GRAINS               150. 240.  0.0079
   4 GRN LEAFY VEGETABLES 150. 240.  0.0005
   5 OTHER FOOD CROPS     150. 240.  0.0036
   6 LEGUMES AND SEEDS    150. 240.  0.0002
   7 ROOTS AND TUBERS     150. 240.  0.0018
 WATERSHED DEFINITION  -- INITIAL AND ANNUAL WASHOFF AND INGESTION FACTORS
   1 Sr-89                           5.00E-06
   2 Sr-90                           5.00E-06
   3 Cs-134                          5.00E-06
   4 Cs-137                          5.00E-06
 REGIONAL ECONOMIC DATA
  01 FAIRFIELD      0.032 .008    5831.0   66592.0  287881.0
  02 BERGEN         0.009 .000   14568.0  124496.0  262186.0
  03 LITCHFIELD     0.159 .371     795.0   22373.0  186016.0
  04 NEWHAVEN       0.067 .029    5439.0   36942.0  192427.0
  05 ESSEX          0.002 .000   11903.0  120139.0  197400.0
  06 DUTCHESS       0.219 .207     698.0   16206.0  169417.0
  07 MORRIS         0.057 .006    6005.0   67365.0  277661.0
  08 PASSAIC        0.013 .000    9836.0   81944.0  161864.0
  09 SUSSEX         0.226 .311     483.0   18496.0  165741.0
  10 UNION          0.003 .000   91646.0  243939.0  209708.0
  11 KINGS          0.000 .000       0.0       0.0  123701.0
  12 NASSAU         0.006 .000   18237.0   88422.0  239932.0
```

```
  13 ORANGE         0.207 .288    1516.0   13148.0  148873.0
  14 PUTNAM         0.045 .000     892.0   24525.0  180274.0
  15 QUEENS         0.000 .000       0.0       0.0  226728.0
  16 ROCKLAND       0.011 .047    6365.0   65755.0  203359.0
  17 SUFFOLK        0.058 .000   14567.0   54566.0  192471.0
  18 SULLIVAN       0.103 .233    1466.0    7911.0  139374.0
  19 ULSTER         0.116 .043    1019.0    9908.0  138739.0
  20 WESTCHESTR     0.036 .009    2206.0   39116.0  263389.0
  21 WATER          0.000 .000       0.0       0.0       0.0
POPULATION

>>The Record Identifier TYPEBNUMBER was not found:
>>Type B results not being generated



USER INPUT IS READ FROM UNIT 26
RECORD IDENTIFIER FIELDS  11 CHARACTERS LONG ARE EXPECTED.
THE FIRST 100 COLUMNS OF EACH INPUT RECORD ARE PROCESSED.
THE MAXIMUM NUMBER OF IDENTIFIER RECORDS THAT MAY BE SAVED AS THE BASE CASE IS
1000.

RECORD
NUMBER                                      RECORD

       * GENERAL DESCRIPTIVE TITLE DESCRIBING THIS "CHRONC" INPUT FILE

       *

    1  CHCHNAME001 'CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model'

*******************************************************************************

       * EMERGENCY RESPONSE COST DATA BLOCK

       *

       * DAILY COST FOR A PERSON WHO IS EVACUATED (DOLLARS/PERSON-DAY)

       *

    2  CHEVACST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

       *

       * DAILY COST FOR A PERSON WHO IS RELOCATED (DOLLARS/PERSON-DAY)

       *

    3  CHRELCST001  46.7   (INCLUDES FOOD AND HOUSING COSTS BUT NOT LOST INCOME)

*******************************************************************************

       * LONG TERM PROTECTIVE ACTION DATA BLOCK

       *

       * Duration of the intermediate phase period--at version 1.11c TMIPND is no

       * longer processed.  The new input variable DUR_INTPHAS is the period's
```

```
   * duration, not the time after plume arrival at which the period ends.
   *
4  DUR_INTPHAS   0.0    (in seconds)   (no intermediate phase)
   *
   * LONG-TERM PHASE DOSE PROJECTION PERIOD, THE DURATION OF THE EXPOSURE
   * PERIOD OVER WHICH THE LONG-TERM DOSE CRITERION IS EVALUATED (SECONDS)
   *
5  CHTMPACT001   1.58E8             (5 YEARS)
   *
   * DOSE CRITERION FOR INTERMEDIATE PHASE RELOCATION (Sv)
   *
6  CHDSCRTI001   1.0E5              (NO INTERMEDIATE PHASE RELOCATION)
   *
   * DOSE CRITERION FOR LONG-TERM PHASE RELOCATION (Sv)
   *
7  CHDSCRLT001    0.04
   *
   * CRITICAL ORGAN NAME FOR LONG-TERM ACTIONS
   *
8  CHCRTOCR001 'L-EDEWBODY'
   *
   * Long Term Exposure Period    Previously permanently set to:
   *    one million years = 3.15 E13 seconds
   *    MACCS2 allowable range is 3.15E7 to 1.E10
   *
9  CHEXPTIM001    9.45E8
*******************************************************************************
   * DECONTAMINATION PLAN DATA BLOCK
   *
   * NUMBER OF LEVELS OF DECONTAMINATION
   *
```

```
   10  CHLVLDEC001  2
       *
       * DECONTAMINATION TIMES CORRESPONDING TO THE LVLDEC LEVELS OF DECONTAMINATION
       *  (SECONDS)
       *
   11  CHTIMDEC001   5.184E6  1.0368E7    (60, 120 DAYS)
       *
       * DOSE REDUCTION FACTORS CORRESPONDING TO THE LVLDEC LEVELS OF
DECONTAMINATION
       *
   12  CHDSRFCT001   3.      15.
       *
       * COST OF FARM DECONTAMINATION PER FARMLAND UNIT AREA (DOLLARS/HECTARE)
       *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
       *
   13  CHCDFRM0001   972.   2160.
       *
       * COST OF NONFARM DECONTAMINATION PER RESIDENT PERSON (DOLLARS/PERSON)
       *  FOR THE VARIOUS LEVELS OF DECONTAMINATION
       *
   14  CHCDNFRM001   5184.   13824.
       *
       * FRACTION OF FARMLAND DECONTAMINATION COST DUE TO LABOR
       *  FOR THE VARIOUS DECONTAMINATION LEVELS
       *
   15  CHFRFDL0001  .3      .35
       *
       * FRACTION OF NON-FARM DECONTAMINATION COST DUE TO LABOR
       *  FOR THE VARIOUS DECONTAMINATION LEVELS
       *
   16  CHFRNFDL001  .7      .5
       *
       * FRACTION OF TIME WORKERS IN FARM AREAS SPEND IN CONTAMINATED AREAS
```

```
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  17 CHTFWKF0001  .10     .33
     *
     * FRACTION OF TIME WORKERS IN NON-FARM AREAS SPEND IN CONTAMINATED AREAS
     *  FOR THE VARIOUS DECONTAMINATION LEVELS
     *
  18 CHTFWKNF001  .33     .33
     *
     * AVERAGE COST OF DECONTAMINATION LABOR (DOLLARS/MAN-YEAR)
     *
  19 CHDLBCST001   60480.
*******************************************************************************
     * INTERDICTION COST DATA BLOCK
     *
     * DEPRECIATION (DETERIORATION) RATE DURING INTERDICTION PERIOD (PER YEAR)
     *
  20 CHDPRATE001    .20   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
     *
     * INVESTMENT INCOME RETURN (DISCOUNT RATE) DURING INTERDICTION PERIOD (PER
YEAR)
     * THIS VALUE SHOULD BE DERIVED AS A REAL RETURN RATE ADJUSTED FOR INFLATION
     *
  21 CHDSRATE001    .12   (VALUE OBTAINED FROM WASH-1400, APPENDIX 6)
     *
     * POPULATION RELOCATION COST (DOLLARS/PERSON):
     *  ALTERNATIVE HOUSING, MOVING COSTS, AND LOST INCOME FOR PEOPLE IN
     *  AREAS WHICH REQUIRE DECONTAMINATION, INTERDICTION, OR CONDEMNATION
     *
  22 CHPOPCST001   8640.
*******************************************************************************
```

```
     * GROUNDSHINE WEATHERING DEFINITION DATA BLOCK
     *
     * NUMBER OF TERMS IN THE GROUNDSHINE WEATHERING RELATIONSHIP (EITHER 1 OR 2)
     *
  23 CHNGWTRM001   2
     *
     * GROUNDSHINE WEATHERING COEFFICIENTS
     *
  24 CHGWCOEF001   0.5    0.5            (JON HELTON)
     *
     * HALF LIVES CORRESPONDING TO THE GROUNDSHINE WEATHERING COEFFICIENTS (S)
     *
  25 CHTGWHLF001   1.6E7  2.8E9          (JON HELTON)
*******************************************************************************
     * RESUSPENSION WEATHERING DEFINITION DATA BLOCK
     *
     * NUMBER OF TERMS IN THE RESUSPENSION WEATHERING RELATIONSHIP
     *
  26 CHNRWTRM001    3
     *
     * RESUSPENSION CONCENTRATION COEFFICIENTS   (/ METER)
     *  RELATIONSHIP BETWEEN GROUND CONCENTRATION AND INSTANTANEOUS AIR CONC.
     *
  27 CHRWCOEF001  1.0E-5   1.0E-7   1.0E-9  (VALUES HERE SELECTED BY JON HELTON)
     *
     * HALF-LIVES CORRESPONDING TO THE RESUSPENSION CONCENTRATION COEFFICIENTS (S)
     *
  28 CHTRWHLF001  1.6E7    1.6E8    1.6E9   (6 MONTHS, 5 YEARS, 50 YEARS)
*******************************************************************************
     * SITE REGION DESCRIPTION DATA BLOCK
     *
```

```
     * FRACTION OF AREA THAT IS LAND IN THE REGION
     *
29   CHFRACLD001   0.95   (ROUGH GUESS VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF LAND DEVOTED TO FARMING IN THE REGION
     *
30   CHFRCFRM001   0.382  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * AVERAGE VALUE OF ANNUAL FARM PRODUCTION IN THE REGION (DOLLARS/HECTARE)
     *  (CASH RECEIPTS FROM FARMING PLUS VALUE OF HOME CONSUMPTION)/(LAND IN
FARMS)
     *
31   CHFRMPRD001   371.0  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * FRACTION OF FARM PRODUCTION RESULTING FROM DAIRY PRODUCTION IN THE REGION
     *  (VALUE OF MILK PRODUCED)/(CASH RECEIPTS FROM FARMING PLUS HOME
CONSUMPTION)
     *
32   CHDPFRCT001   0.198  (VIRGINIA STATE VALUE, SITE FILE OVERRIDES THIS VALUE)
     *
     * VALUE OF FARM WEALTH (DOLLARS/HECTARE)
     *  (AVERAGE VALUE PER HECTARE OF FARM LAND AND BUILDINGS TO 100 MILES)
     *
33   CHVALWF0001    50071.
     *
     * FRACTION OF FARM WEALTH IN IMPROVEMENTS FOR THE REGION
     *
34   CHFRFIM0001   0.25
     *
     * NON-FARM WEALTH, PROPERTY AND IMPROVEMENTS FOR THE REGION (DOLLARS/PERSON)
     *  THE VALUE OF ALL RESIDENTIAL, BUSINESS, AND PUBLIC ASSETS WHICH WOULD BE
     *  LOST IN THE EVENT OF PERMANENT INTERDICTION (CONDEMNATION) OF THE AREA
     *
```

```
35  CHVALWNF001    208838.
    *
    * FRACTION OF NON-FARM WEALTH IN IMPROVEMENTS FOR THE REGION
    *
36  CHFRNFIM001   0.8
    ******************************************************************************
37  CHFDPATH001 'NEW'
    *
    * name of the COMIDA2 binary output file
    *
38  BIN_FILE001 'SAMP_A.BIN'   (revised data file of 8/12/95)
    *
    * Dose limits triggering first year crop disposal of the separate
    * milk and non-milk components of the diet, corresponding in purpose,
    * more or less, to the MACCS 1.5 input variables PSCMLK and PSCOTH
    *
    * For NUREG-1150 calculations, the maximum allowable ground concentrations
for
    * production of milk and non-milk crops contaminated by an accident occurring
    * in the growing season were derived based on an assumed maximum allowable
    * dose of 5 rem effective or 15 rem thyroid, per the 1982 FDA guidance that's
    * reprinted in the 1992 EPA PAG Manual.  For purposes of comparison against
    * the prior results, it is being assumed, for simplicity, that milk and
    * non-milk crops contribute equally to the first year dose.  Thus, the 5 rem
    * effective dose limit used in NUREG-1150 is equally split between milk and
    * non-milk crops, with 2.5 rem allowed for each.  Similarly, the 15 rem
    * thyroid limit is split into 7.5 and 7.5 rem for the milk and non-milk
    * portions of the diet.
    *
    *             effective     thyroid  (doses in sieverts)
39  DOSEMILK001    0.025          0.075
40  DOSEOTHR001    0.025          0.075
    *
```

```
      * Annual dose limits for the subsequent year's (i.e., after the first year)
      * interdiction of BOTH the milk and non-milk (combined) components of the
diet
      *
      * Note: the long-term food critera, GCMAXR, used for NUREG-1150 wre based on
      * an ingestion dose integrated from zero to infinity.  It is not possible to
      * translate those parameter values into corresponding annual dose limits, as
is
      * required by the COMIDA2-based food model.  The "total" dose limits used in
      * NUREG-1150 for "root uptake", 0.5 rem effective and 1.5 rem thyroid, are
used
      * here as annual dose limits for interdiction of food production in years the
      * years subsequent to the accident.
      *
      *             effective     thyroid  (doses in sieverts)
   41 DOSELONG001    0.005          0.015
      *
      * NUMBER OF NUCLIDES IN THE WATER INGESTION PATHWAY MODEL
      *
   42 CHNUMWPI001    4
      *
      * TABLE OF NUCLIDE DEFINITIONS IN THE WATER INGESTION PATHWAY MODEL
      *
      * IF A SITE DATA FILE IS DEFINED, THE DATA DEFINING THE WATERSHED INGESTION
      *  FACTOR IS SUPERSEDED BY THE CORRESPONDING DATA IN THE SITE DATA FILE
      *
      *                        INITIAL     ANNUAL    INGESTION FACTOR
      *             WATER      WASHOFF     WASHOFF    ((Bq INGESTED)/
      *            NUCLIDE     FRACTION     RATE       (Bq IN WATER))
      *
      *             NAMWPI      WSHFRI      WSHRTA         WINGF
   43 CHWTRISO001   Sr-89        0.01       0.004          5.0E-6
   44 CHWTRISO002   Sr-90        0.01       0.004          5.0E-6
   45 CHWTRISO003   Cs-134       0.005      0.001          5.0E-6
```

```
   46  CHWTRISO004   Cs-137       0.005      0.001          5.0E-6

*******************************************************************************

       * SPECIAL OPTIONS DATA BLOCK

       *

       * DETAILED PRINT OPTION CONTROL SWITCHES, LOOK AT THE CODE BEFORE TURNING
ON!!
       *          KSWDSC

       *

   47  CHKSWTCH001   0

*******************************************************************************

       * DEFINE THE TYPE 9 RESULTS

       *

       * LONG-TERM POPULATION DOSE IN A GIVEN REGION BROKEN DOWN BY THE 12 PATHWAYS

       *

       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED

       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12

       *

   48  TYPE9NUMBER   1      (UP TO 10 ALLOWED)

       *

       *              ORGNAM        INNER      OUTER

       *

   49  TYPE9OUT001   'L-EDEWBODY'       1          15    (0-50 MILES)

*******************************************************************************

       * ECONOMIC COST RESULTS IN A REGION BROKEN DOWN BY 12 TYPES OF COSTS

       *

       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED

       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 12

       *

   50  TYP10NUMBER   1      (UP TO 10 ALLOWED)

       *

       *              INNER      OUTER
```

```
       *
   51  TYP10OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * DEFINE A FLAG THAT CONTROLS THE PRODUCTION OF THE ACTION DISTANCE RESULTS
       *
       * SPECIFYING A VALUE OF .TRUE. TURNS ON ALL 8 OF THE ACTION DISTANCE RESULTS,
       * A VALUE OF .FALSE. WILL ELIMINATE THE ACTION DISTANCE RESULTS FROM THE
OUTPUT.
       *
   52  TYP11FLAG11  .FALSE.
*****************************************************************************
       * IMPACTED AREA/POPULATION RESULTS IN A REGION BROKEN DOWN BY 6 TYPES OF
IMPACTS
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       * FOR EACH RESULT YOU REQUEST, THE CODE WILL PRODUCE A SET OF 8
       *
   53  TYP12NUMBER   0      (UP TO 10 ALLOWED)
       *
       *               INNER      OUTER
       *
       *TYP12OUT001      1          15    (0-50 MILES)
*****************************************************************************
       * Maximal annual food ingestion dose to an individual, requested by IXOT13
       *
       * This result is calculated after accounting for temporary or
       * permanent interdiction.  It is only available for the "new" food model.
       *
       * NUMBER OF RESULTS OF THIS TYPE THAT ARE BEING REQUESTED
       *
   54  TYP13NUMBER   0   (UP TO 10 ALLOWED)
       *
```

```
* IRAD13 is the radial spatial interval at which results are requested
*
* ORGN13 is the name of the organ for which results are requested
*  (allowable values for ORGN13 are 'EFFECTIVE' or 'THYROID')
*
*          IRAD13   ORGN13
*
*TYP13OUT001   2    EFFECTIVE
*TYP13OUT002   4    EFFECTIVE
*TYP13OUT003   6    EFFECTIVE
*TYP13OUT004   8    EFFECTIVE
*TYP13OUT005  10    EFFECTIVE
*TYP13OUT006  12    EFFECTIVE
*TYP13OUT007  15    EFFECTIVE
*TYP13OUT008   2    THYROID
*TYP13OUT009   4    THYROID
*TYP13OUT010   6    THYROID
*TYP13OUT011   8    THYROID
*TYP13OUT012  10    THYROID
*TYP13OUT013  12    THYROID
*TYP13OUT014  15    THYROID
.
******** TERMINATOR RECORD ENCOUNTERED -- END OF BASE CASE USER INPUT ********


USER INPUT PROCESSING SUMMARY - BASE CASE

NUMBER OF RECORDS READ                          =  318
NUMBER OF BLANK OR COMMENT RECORDS READ         =  263
NUMBER OF TERMINATOR RECORDS                    =    1
NUMBER OF RECORDS PROCESSED                     =   54
     NUMBER OF PROCESSED RECORDS DUPLICATED     =    0
     NUMBER OF PROCESSED RECORDS SORTED         =   54
*******************************************************************************
****************


COMIDA2 binary file header =
COMIDA2 01/14/2004 13:06:02   Version 1.11.1, 01/12/2004

COMIDA2 descriptive title  =
```

```
MACCS File DOSDATA.INP: Changed by D. CHANIN25-JUN-92, 09:53:47

Seven new organs added with MACCS Version 1.5.11.1


A SITE DATA FILE IS BEING USED FOR BOTH "EARLY" AND "CHRONC"

 7 CANCER EFFECTS ARE DEFINED IN THE MODEL.
    INDEX  CANCER EFFECT                     ORGAN       ALPHA       BETA     CFRISK
   CIRISK
       1                        LEUKEMIA     L-RED MARR   1.000E+00  0.000E+00
9.700E-03  0.000E+00
       2                        BONE         L-BONE SUR   1.000E+00  0.000E+00
9.000E-04  0.000E+00
       3                        BREAST       L-BREAST     1.000E+00  0.000E+00
5.400E-03  1.700E-02
       4                        LUNG         L-LUNGS      1.000E+00  0.000E+00
1.550E-02  0.000E+00
       5                        THYROID      L-THYROIDH   1.000E+00  0.000E+00
7.200E-04  7.200E-03
       6                        GI           L-LOWER LI   1.000E+00  0.000E+00
3.360E-02  0.000E+00
       7                        OTHER        L-EDEWBODY   1.000E+00  0.000E+00
2.760E-02  0.000E+00

  TIME OF HOTSPOT RELOCATION IS 4.3200E+04.
  TIME OF NORMAL RETURN IS  8.640E+04 AND THE EMERGENCY PHASE ENDS AT  6.048E+05.


GROUNDSHINE SHIELDING FACTOR   = 0.400

RESUSPENSION PROTECTION FACTOR = 0.410

BREATHING RATE (CUBIC M/S) =   2.660E-04

  DISPERSION MODEL FLAG IS  2

  WINDROSE PROBABILITIES BY WIND DIRECTION AND MET BIN NUMBER
 BIN     1      2      3      4      5      6      7      8      9     10     11
12     13     14     15     16
    1 0.2458 0.1137 0.0654 0.0549 0.0484 0.0575 0.0706 0.0680 0.1582 0.0144 0.0039
0.0039 0.0000 0.0000 0.0052 0.0902
    2 0.1373 0.0564 0.0319 0.0049 0.0098 0.1054 0.2181 0.0686 0.2525 0.0686 0.0074
0.0074 0.0000 0.0000 0.0000 0.0319
    3 0.1765 0.0647 0.0824 0.0176 0.0294 0.0294 0.0176 0.0176 0.0235 0.0706 0.0294
0.0471 0.0588 0.1059 0.0824 0.1471
    4 0.1457 0.0997 0.0441 0.0374 0.0336 0.0316 0.0384 0.0479 0.1333 0.1371 0.0748
0.0316 0.0192 0.0249 0.0278 0.0729
    5 0.1088 0.0495 0.0162 0.0154 0.0463 0.0633 0.1234 0.0747 0.1753 0.2378 0.0511
0.0081 0.0008 0.0000 0.0024 0.0268
    6 0.0531 0.0371 0.0050 0.0020 0.0200 0.0681 0.2074 0.0942 0.1743 0.3176 0.0180
0.0010 0.0000 0.0000 0.0000 0.0020
    7 0.0000 0.0270 0.0000 0.0000 0.0405 0.0541 0.1757 0.0270 0.2432 0.4324 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
    9 0.1181 0.0851 0.0694 0.0451 0.0330 0.0243 0.0226 0.0278 0.0712 0.0764 0.0590
0.0503 0.0625 0.0851 0.0608 0.1094
   10 0.1524 0.1122 0.0431 0.0384 0.0240 0.0307 0.0336 0.0240 0.0537 0.1774 0.1361
0.0499 0.0249 0.0134 0.0144 0.0719
   11 0.2151 0.0814 0.0174 0.0174 0.0262 0.0581 0.0552 0.0378 0.0378 0.2820 0.1221
0.0029 0.0000 0.0000 0.0000 0.0465
   12 0.2754 0.1884 0.0000 0.0290 0.0290 0.0580 0.1014 0.0290 0.0725 0.2029 0.0145
```

0.0000 0.0000 0.0000 0.0000 0.0000
13 0.0684 0.0427 0.0385 0.0342 0.0171 0.0256 0.0171 0.0513 0.1325 0.2436 0.1026
0.0128 0.0641 0.0342 0.0641 0.0513
14 0.0430 0.0215 0.0108 0.0108 0.0000 0.0072 0.0000 0.0072 0.0860 0.3369 0.2616
0.0968 0.0502 0.0179 0.0215 0.0287
15 0.0204 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.3673 0.5714
0.0408 0.0000 0.0000 0.0000 0.0000
16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7500 0.2500
0.0000 0.0000 0.0000 0.0000 0.0000
17 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
18 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
19 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
20 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
21 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
22 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
23 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
24 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
25 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
26 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
27 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
28 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
29 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
30 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
31 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
32 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
33 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
34 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
35 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
36 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
37 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
38 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
39 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
40 0.1887 0.0790 0.0279 0.0245 0.0089 0.0102 0.0095 0.0211 0.0743 0.2289 0.0743
0.0388 0.0354 0.0361 0.0422 0.1001
41 0.1414 0.0758 0.0333 0.0260 0.0266 0.0420 0.0742 0.0482 0.1203 0.1926 0.0713
0.0261 0.0199 0.0197 0.0209 0.0615

Processing a Site Data File with Header: MACCS2 Site Data File for Indian Point Energy Center

```
 SITE FILE

 THIS PROGRAM CURRENTLY ALLOWS THE GENERATION OF UP TO  394 RESULTS

YOU HAVE REQUESTED  10 RESULTS FROM "EARLY" COMPOSED OF:

   4 RESULTS OF TYPE 1
   0 RESULTS OF TYPE 2
   0 RESULTS OF TYPE 3
   3 RESULTS OF TYPE 4
   1 RESULTS OF TYPE 5
   0 RESULTS OF TYPE 6
   0 RESULTS OF TYPE 7
   2 RESULTS OF TYPE 8
   0 RESULTS OF TYPE A
   0 RESULTS OF TYPE B

YOU HAVE REQUESTED   30 RESULTS FROM "CHRONC" COMPOSED OF:

  17 RESULTS OF TYPE 9
  13 RESULTS OF TYPE 10
   0 RESULTS OF TYPE 11
   0 RESULTS OF TYPE 12
   0 RESULTS OF TYPE 13


     TRIAL        DAY       HOUR        BIN     PRBMET
         1        152         15         18   1.86E-03
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
         2        152         20         21   6.91E-03
For Julian Day 152, selecting COMIDA2 results # 4 of 9
         3        159          6          3   4.85E-03
For Julian Day 159, selecting COMIDA2 results # 4 of 9
         4        163         13          1   2.18E-02
For Julian Day 163, selecting COMIDA2 results # 4 of 9
         5        164          2         16   2.28E-04
For Julian Day 164, selecting COMIDA2 results # 4 of 9
         6        164         19          9   1.64E-02
For Julian Day 164, selecting COMIDA2 results # 4 of 9
         7        168         12          4   2.98E-02
For Julian Day 168, selecting COMIDA2 results # 5 of 9
         8        176          5         16   2.28E-04
For Julian Day 176, selecting COMIDA2 results # 5 of 9
         9        177          7         40   5.71E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
        10        177         12         39   2.57E-04
```

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For Julian Day 177, selecting COMIDA2 results # 5 of 9
         11        177         13         38   1.14E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         12        177         14         37   1.14E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         13        177         15         35   8.56E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         14        177         17         36   1.14E-04
For Julian Day 177, selecting COMIDA2 results # 5 of 9
         15        180         10         40   5.71E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         16        180         14         39   2.57E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         17        180         17         39   2.57E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         18        180         18         38   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         19        180         19         38   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         20        180         20         37   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         21        180         21         37   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         22        180         22         36   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         23        180         23         36   1.14E-04
For Julian Day 180, selecting COMIDA2 results # 5 of 9
         24        186          6         10   2.98E-02
For Julian Day 186, selecting COMIDA2 results # 5 of 9
         25        186         19         22   1.12E-02
For Julian Day 186, selecting COMIDA2 results # 5 of 9
         26        189         20         28   1.08E-03
For Julian Day 189, selecting COMIDA2 results # 5 of 9
         27        190          1         27   6.28E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         28        190          2         26   1.71E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         29        190          3         25   2.57E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         30        190          5         24   1.14E-04
For Julian Day 190, selecting COMIDA2 results # 5 of 9
         31        195          1         23   1.37E-03
For Julian Day 195, selecting COMIDA2 results # 6 of 9
         32        196         15         19   3.20E-03
For Julian Day 196, selecting COMIDA2 results # 6 of 9
         33        200         22         12   1.97E-03
For Julian Day 200, selecting COMIDA2 results # 6 of 9
         34        202          4         13   6.68E-03
For Julian Day 202, selecting COMIDA2 results # 6 of 9
         35        205          9         20   2.00E-03
For Julian Day 205, selecting COMIDA2 results # 6 of 9
         36        205         13         35   8.56E-04
For Julian Day 205, selecting COMIDA2 results # 6 of 9
         37        205         18         29   6.28E-04
For Julian Day 205, selecting COMIDA2 results # 6 of 9
         38        206          8          6   2.85E-02
For Julian Day 206, selecting COMIDA2 results # 6 of 9
         39        206         12          2   1.16E-02
For Julian Day 206, selecting COMIDA2 results # 6 of 9
         40        210         16         17   1.03E-02
For Julian Day 210, selecting COMIDA2 results # 6 of 9
         41        219         14          1   2.18E-02
For Julian Day 219, selecting COMIDA2 results # 6 of 9
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         42        223         17          5   3.52E-02
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         43        223         24         11   9.82E-03
For Julian Day 223, selecting COMIDA2 results # 7 of 9
         44        236          1         14   7.96E-03
For Julian Day 236, selecting COMIDA2 results # 7 of 9
         45        242         23          9   1.64E-02
For Julian Day 242, selecting COMIDA2 results # 7 of 9
         46        248          8          3   4.85E-03
For Julian Day 248, selecting COMIDA2 results # 7 of 9
         47        261         21         18   1.86E-03
For Julian Day 261, selecting COMIDA2 results # 8 of 9
         48        262          9         35   8.56E-04
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         49        262         18          7   2.11E-03
For Julian Day 262, selecting COMIDA2 results # 8 of 9
         50        267          6         16   2.28E-04
For Julian Day 267, selecting COMIDA2 results # 8 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
         51        267          7         16   2.28E-04
For Julian Day 267, selecting COMIDA2 results # 8 of 9
         52        267         21         15   1.40E-03
For Julian Day 267, selecting COMIDA2 results # 8 of 9
         53        270         18         13   6.68E-03
For Julian Day 270, selecting COMIDA2 results # 8 of 9
         54        272         21         29   6.28E-04
For Julian Day 272, selecting COMIDA2 results # 8 of 9
         55        282         18          9   1.64E-02
For Julian Day 282, selecting COMIDA2 results # 8 of 9
         56        287         24         10   2.98E-02
For Julian Day 287, selecting COMIDA2 results # 9 of 9
         57        289         22         24   1.14E-04
For Julian Day 289, selecting COMIDA2 results # 9 of 9
         58        293         10         19   3.20E-03
For Julian Day 293, selecting COMIDA2 results # 9 of 9
         59        299         12          4   2.98E-02
For Julian Day 299, selecting COMIDA2 results # 9 of 9
         60        309         13         25   2.57E-04
For Julian Day 309, selecting COMIDA2 results # 9 of 9
         61        309         14         24   1.14E-04
For Julian Day 309, selecting COMIDA2 results # 9 of 9
         62        310          6         12   1.97E-03
For Julian Day 310, selecting COMIDA2 results # 9 of 9
         63        312         21         14   7.96E-03
For Julian Day 312, selecting COMIDA2 results # 9 of 9
         64        315          2         11   9.82E-03
For Julian Day 315, selecting COMIDA2 results # 9 of 9
         65        317         18         22   1.12E-02
For Julian Day 317, selecting COMIDA2 results # 9 of 9
         66        321         20         15   1.40E-03
For Julian Day 321, selecting COMIDA2 results # 9 of 9
         67        323          3         14   7.96E-03
For Julian Day 323, selecting COMIDA2 results # 9 of 9
         68        323          5         13   6.68E-03
For Julian Day 323, selecting COMIDA2 results # 9 of 9
         69        325         16         17   1.03E-02
For Julian Day 325, selecting COMIDA2 results # 9 of 9
         70        325         22         23   1.37E-03
For Julian Day 325, selecting COMIDA2 results # 9 of 9
         71        329          7         21   6.91E-03
For Julian Day 329, selecting COMIDA2 results # 9 of 9
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         72        330         23          6   2.85E-02
For Julian Day 330, selecting COMIDA2 results # 9 of 9
         73        344         19         18   1.86E-03
For Julian Day 344, selecting COMIDA2 results # 1 of 9
         74        345         12         22   1.12E-02
For Julian Day 345, selecting COMIDA2 results # 1 of 9
         75        345         15         20   2.00E-03
For Julian Day 345, selecting COMIDA2 results # 1 of 9
         76        345         19         17   1.03E-02
For Julian Day 345, selecting COMIDA2 results # 1 of 9
         77        346         12          4   2.98E-02
For Julian Day 346, selecting COMIDA2 results # 1 of 9
         78        350         18          5   3.52E-02
For Julian Day 350, selecting COMIDA2 results # 1 of 9
         79        353         16          3   4.85E-03
For Julian Day 353, selecting COMIDA2 results # 1 of 9
         80        358          9         19   3.20E-03
For Julian Day 358, selecting COMIDA2 results # 1 of 9
         81        358         18         35   8.56E-04
For Julian Day 358, selecting COMIDA2 results # 1 of 9
         82        362          1          7   2.11E-03
For Julian Day 362, selecting COMIDA2 results # 1 of 9
         83          1          6         11   9.82E-03
For Julian Day   1, selecting COMIDA2 results # 1 of 9
         84         14         13          1   2.18E-02
For Julian Day  14, selecting COMIDA2 results # 1 of 9
         85         24          6         10   2.98E-02
For Julian Day  24, selecting COMIDA2 results # 1 of 9
         86         27          1         21   6.91E-03
For Julian Day  27, selecting COMIDA2 results # 1 of 9
         87         30         12          2   1.16E-02
For Julian Day  30, selecting COMIDA2 results # 1 of 9
         88         31          8          5   3.52E-02
For Julian Day  31, selecting COMIDA2 results # 1 of 9
         89         33          7         12   1.97E-03
For Julian Day  33, selecting COMIDA2 results # 2 of 9
         90         33         24         14   7.96E-03
For Julian Day  33, selecting COMIDA2 results # 2 of 9
         91         34         18         29   6.28E-04
For Julian Day  34, selecting COMIDA2 results # 2 of 9
         92         37         15         23   1.37E-03
For Julian Day  37, selecting COMIDA2 results # 2 of 9
         93         48          6         15   1.40E-03
For Julian Day  48, selecting COMIDA2 results # 2 of 9
         94         53         18          6   2.85E-02
For Julian Day  53, selecting COMIDA2 results # 2 of 9
         95         55         17          5   3.52E-02
For Julian Day  55, selecting COMIDA2 results # 2 of 9
         96         57         14          2   1.16E-02
For Julian Day  57, selecting COMIDA2 results # 2 of 9
         97         62         20         12   1.97E-03
For Julian Day  62, selecting COMIDA2 results # 2 of 9
         98         66          9         20   2.00E-03
For Julian Day  66, selecting COMIDA2 results # 2 of 9
         99         71          8          7   2.11E-03
For Julian Day  71, selecting COMIDA2 results # 2 of 9
        100         77         22          3   4.85E-03
For Julian Day  77, selecting COMIDA2 results # 2 of 9


     TRIAL        DAY       HOUR        BIN     PRBMET
        101         80          1         10   2.98E-02
For Julian Day  80, selecting COMIDA2 results # 2 of 9
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        102         80         18         19   3.20E-03
For Julian Day  80, selecting COMIDA2 results # 2 of 9
        103         86         15          1   2.18E-02
For Julian Day  86, selecting COMIDA2 results # 2 of 9
        104         90         19         28   1.08E-03
For Julian Day  90, selecting COMIDA2 results # 2 of 9
        105         90         24         27   6.28E-04
For Julian Day  90, selecting COMIDA2 results # 2 of 9
        106         91          1         26   1.71E-04
For Julian Day  91, selecting COMIDA2 results # 2 of 9
        107         91         20         22   1.12E-02
For Julian Day  91, selecting COMIDA2 results # 2 of 9
        108         95         19          6   2.85E-02
For Julian Day  95, selecting COMIDA2 results # 3 of 9
        109         97          6          7   2.11E-03
For Julian Day  97, selecting COMIDA2 results # 3 of 9
        110        101          5         11   9.82E-03
For Julian Day 101, selecting COMIDA2 results # 3 of 9
        111        101          7          4   2.98E-02
For Julian Day 101, selecting COMIDA2 results # 3 of 9
        112        103         24         31   1.14E-04
For Julian Day 103, selecting COMIDA2 results # 3 of 9
        113        104          7         34   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        114        104          8         34   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        115        104          9         34   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        116        104         10         34   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        117        104         11         33   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        118        104         12         33   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        119        104         13         31   1.14E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        120        104         14         29   6.28E-04
For Julian Day 104, selecting COMIDA2 results # 3 of 9
        121        108         24         13   6.68E-03
For Julian Day 108, selecting COMIDA2 results # 3 of 9
        122        117         12         17   1.03E-02
For Julian Day 117, selecting COMIDA2 results # 3 of 9
        123        123          2         21   6.91E-03
For Julian Day 123, selecting COMIDA2 results # 3 of 9
        124        124         16         20   2.00E-03
For Julian Day 124, selecting COMIDA2 results # 3 of 9
        125        126         15         27   6.28E-04
For Julian Day 126, selecting COMIDA2 results # 3 of 9
        126        126         18         24   1.14E-04
For Julian Day 126, selecting COMIDA2 results # 3 of 9
        127        129         14          2   1.16E-02
For Julian Day 129, selecting COMIDA2 results # 3 of 9
        128        130          1         23   1.37E-03
For Julian Day 130, selecting COMIDA2 results # 3 of 9
        129        130         20          9   1.64E-02
For Julian Day 130, selecting COMIDA2 results # 3 of 9
        130        133          1         15   1.40E-03
For Julian Day 133, selecting COMIDA2 results # 3 of 9
        131        133          6         28   1.08E-03
For Julian Day 133, selecting COMIDA2 results # 3 of 9
        132        133         13         26   1.71E-04
For Julian Day 133, selecting COMIDA2 results # 3 of 9
        133        133         14         25   2.57E-04
```

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For Julian Day 133, selecting COMIDA2 results # 3 of 9
        134        144          5         40   5.71E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        135        144          7         40   5.71E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        136        144         11         39   2.57E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        137        144         14         37   1.14E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        138        144         15         36   1.14E-04
For Julian Day 144, selecting COMIDA2 results # 4 of 9
        139        145          4         18   1.86E-03
For Julian Day 145, selecting COMIDA2 results # 4 of 9
        140        145          9         28   1.08E-03
For Julian Day 145, selecting COMIDA2 results # 4 of 9
        141        145         14         27   6.28E-04
For Julian Day 145, selecting COMIDA2 results # 4 of 9
        142        145         16         26   1.71E-04
For Julian Day 145, selecting COMIDA2 results # 4 of 9
        143        145         17         25   2.57E-04
For Julian Day 145, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  22.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 159, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 164, selecting COMIDA2 results # 4 of 9
For Julian Day 164, selecting COMIDA2 results # 4 of 9
For Julian Day 168, selecting COMIDA2 results # 5 of 9
For Julian Day 176, selecting COMIDA2 results # 5 of 9
For Julian Day 177, selecting COMIDA2 results # 5 of 9
For Julian Day 177, selecting COMIDA2 results # 5 of 9
For Julian Day 177, selecting COMIDA2 results # 5 of 9
For Julian Day 177, selecting COMIDA2 results # 5 of 9
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For Julian Day 177, selecting COMIDA2 results # 5 of 9
For Julian Day 180, selecting COMIDA2 results # 5 of 9
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For Julian Day 180, selecting COMIDA2 results # 5 of 9
For Julian Day 180, selecting COMIDA2 results # 5 of 9
For Julian Day 180, selecting COMIDA2 results # 5 of 9
For Julian Day 180, selecting COMIDA2 results # 5 of 9
For Julian Day 180, selecting COMIDA2 results # 5 of 9
For Julian Day 186, selecting COMIDA2 results # 5 of 9
For Julian Day 186, selecting COMIDA2 results # 5 of 9
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For Julian Day 189, selecting COMIDA2 results # 5 of 9
For Julian Day 190, selecting COMIDA2 results # 5 of 9
For Julian Day 190, selecting COMIDA2 results # 5 of 9
For Julian Day 190, selecting COMIDA2 results # 5 of 9
For Julian Day 190, selecting COMIDA2 results # 5 of 9
For Julian Day 195, selecting COMIDA2 results # 6 of 9
For Julian Day 196, selecting COMIDA2 results # 6 of 9
For Julian Day 200, selecting COMIDA2 results # 6 of 9
For Julian Day 202, selecting COMIDA2 results # 6 of 9
For Julian Day 205, selecting COMIDA2 results # 6 of 9
For Julian Day 205, selecting COMIDA2 results # 6 of 9
For Julian Day 205, selecting COMIDA2 results # 6 of 9
For Julian Day 206, selecting COMIDA2 results # 6 of 9
For Julian Day 206, selecting COMIDA2 results # 6 of 9
For Julian Day 210, selecting COMIDA2 results # 6 of 9
For Julian Day 219, selecting COMIDA2 results # 6 of 9
For Julian Day 223, selecting COMIDA2 results # 7 of 9
For Julian Day 223, selecting COMIDA2 results # 7 of 9
For Julian Day 236, selecting COMIDA2 results # 7 of 9
For Julian Day 242, selecting COMIDA2 results # 7 of 9
For Julian Day 248, selecting COMIDA2 results # 7 of 9
For Julian Day 261, selecting COMIDA2 results # 8 of 9
For Julian Day 262, selecting COMIDA2 results # 8 of 9
For Julian Day 262, selecting COMIDA2 results # 8 of 9
For Julian Day 267, selecting COMIDA2 results # 8 of 9
For Julian Day 267, selecting COMIDA2 results # 8 of 9
For Julian Day 267, selecting COMIDA2 results # 8 of 9
For Julian Day 270, selecting COMIDA2 results # 8 of 9
For Julian Day 272, selecting COMIDA2 results # 8 of 9
For Julian Day 282, selecting COMIDA2 results # 8 of 9
For Julian Day 287, selecting COMIDA2 results # 9 of 9
For Julian Day 289, selecting COMIDA2 results # 9 of 9
For Julian Day 293, selecting COMIDA2 results # 9 of 9
For Julian Day 299, selecting COMIDA2 results # 9 of 9
For Julian Day 309, selecting COMIDA2 results # 9 of 9
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For Julian Day 310, selecting COMIDA2 results # 9 of 9
For Julian Day 312, selecting COMIDA2 results # 9 of 9
For Julian Day 315, selecting COMIDA2 results # 9 of 9
For Julian Day 317, selecting COMIDA2 results # 9 of 9
For Julian Day 321, selecting COMIDA2 results # 9 of 9
For Julian Day 323, selecting COMIDA2 results # 9 of 9
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For Julian Day 325, selecting COMIDA2 results # 9 of 9
For Julian Day 325, selecting COMIDA2 results # 9 of 9
For Julian Day 329, selecting COMIDA2 results # 9 of 9
For Julian Day 330, selecting COMIDA2 results # 9 of 9
For Julian Day 344, selecting COMIDA2 results # 1 of 9
For Julian Day 345, selecting COMIDA2 results # 1 of 9
For Julian Day 345, selecting COMIDA2 results # 1 of 9
For Julian Day 345, selecting COMIDA2 results # 1 of 9
For Julian Day 346, selecting COMIDA2 results # 1 of 9
For Julian Day 350, selecting COMIDA2 results # 1 of 9
For Julian Day 353, selecting COMIDA2 results # 1 of 9
For Julian Day 358, selecting COMIDA2 results # 1 of 9
For Julian Day 358, selecting COMIDA2 results # 1 of 9
For Julian Day 362, selecting COMIDA2 results # 1 of 9
For Julian Day   1, selecting COMIDA2 results # 1 of 9
For Julian Day  14, selecting COMIDA2 results # 1 of 9
For Julian Day  24, selecting COMIDA2 results # 1 of 9
For Julian Day  27, selecting COMIDA2 results # 1 of 9
For Julian Day  30, selecting COMIDA2 results # 1 of 9
For Julian Day  31, selecting COMIDA2 results # 1 of 9
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For Julian Day  33, selecting COMIDA2 results # 2 of 9
For Julian Day  33, selecting COMIDA2 results # 2 of 9
For Julian Day  34, selecting COMIDA2 results # 2 of 9
For Julian Day  37, selecting COMIDA2 results # 2 of 9
For Julian Day  48, selecting COMIDA2 results # 2 of 9
For Julian Day  53, selecting COMIDA2 results # 2 of 9
For Julian Day  55, selecting COMIDA2 results # 2 of 9
For Julian Day  57, selecting COMIDA2 results # 2 of 9
For Julian Day  62, selecting COMIDA2 results # 2 of 9
For Julian Day  66, selecting COMIDA2 results # 2 of 9
For Julian Day  71, selecting COMIDA2 results # 2 of 9
For Julian Day  77, selecting COMIDA2 results # 2 of 9
For Julian Day  80, selecting COMIDA2 results # 2 of 9
For Julian Day  80, selecting COMIDA2 results # 2 of 9
For Julian Day  86, selecting COMIDA2 results # 2 of 9
For Julian Day  90, selecting COMIDA2 results # 2 of 9
For Julian Day  90, selecting COMIDA2 results # 2 of 9
For Julian Day  91, selecting COMIDA2 results # 2 of 9
For Julian Day  91, selecting COMIDA2 results # 2 of 9
For Julian Day  95, selecting COMIDA2 results # 3 of 9
For Julian Day  97, selecting COMIDA2 results # 3 of 9
For Julian Day 101, selecting COMIDA2 results # 3 of 9
For Julian Day 101, selecting COMIDA2 results # 3 of 9
For Julian Day 103, selecting COMIDA2 results # 3 of 9
For Julian Day 104, selecting COMIDA2 results # 3 of 9
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For Julian Day 104, selecting COMIDA2 results # 3 of 9
For Julian Day 108, selecting COMIDA2 results # 3 of 9
For Julian Day 117, selecting COMIDA2 results # 3 of 9
For Julian Day 123, selecting COMIDA2 results # 3 of 9
For Julian Day 124, selecting COMIDA2 results # 3 of 9
For Julian Day 126, selecting COMIDA2 results # 3 of 9
For Julian Day 126, selecting COMIDA2 results # 3 of 9
For Julian Day 129, selecting COMIDA2 results # 3 of 9
For Julian Day 130, selecting COMIDA2 results # 3 of 9
For Julian Day 130, selecting COMIDA2 results # 3 of 9
For Julian Day 133, selecting COMIDA2 results # 3 of 9
For Julian Day 133, selecting COMIDA2 results # 3 of 9
For Julian Day 133, selecting COMIDA2 results # 3 of 9
For Julian Day 133, selecting COMIDA2 results # 3 of 9
For Julian Day 144, selecting COMIDA2 results # 4 of 9
For Julian Day 144, selecting COMIDA2 results # 4 of 9
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For Julian Day 144, selecting COMIDA2 results # 4 of 9
For Julian Day 144, selecting COMIDA2 results # 4 of 9
For Julian Day 145, selecting COMIDA2 results # 4 of 9
For Julian Day 145, selecting COMIDA2 results # 4 of 9
For Julian Day 145, selecting COMIDA2 results # 4 of 9
For Julian Day 145, selecting COMIDA2 results # 4 of 9
For Julian Day 145, selecting COMIDA2 results # 4 of 9
 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!
```

 WARNING!! WARNING!! WARNING!! WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 22.81 HOURS

 WARNING!! WARNING!! WARNING!! WARNING!!

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For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 152, selecting COMIDA2 results # 4 of 9
For Julian Day 159, selecting COMIDA2 results # 4 of 9
For Julian Day 163, selecting COMIDA2 results # 4 of 9
For Julian Day 164, selecting COMIDA2 results # 4 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  23.58 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.
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THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

WARNING!! WARNING!! WARNING!! WARNING!!

 WARNING!! WARNING!! WARNING!! WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED 24.00 HOURS

WARNING!! WARNING!! WARNING!! WARNING!!

For Julian Day 152, selecting COMIDA2 results # 4 of 9
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 WARNING!!  WARNING!!  WARNING!!  WARNING!!

 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


For Julian Day 152, selecting COMIDA2 results # 4 of 9
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 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

 THIS MAY CAUSE ERRONEOUS RESULTS TO BE PRODUCED.

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


 WARNING!!  WARNING!!  WARNING!!  WARNING!!

A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

 WARNING!!  WARNING!!  WARNING!!  WARNING!!


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 THE TOTAL RELEASE DURATION EXCEEDS 20 HOURS.

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A 10 HOUR RELEASE DURATION IS BEING USED BY ATMOS FOR CALCULATING
THE EXPANSION FACTOR OF PLUME # 1 INSTEAD OF THE USER-SUPPLIED  24.00 HOURS

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  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

OVERALL RESULTS OBTAINED BY COMBINING 1 EMERGENCY RESPONSE COHORTS FROM "EARLY" WITH
THE WEIGHTING FRACTIONS BELOW APPLIED TO THEM:


FRACTION OF THE PEOPLE

              ------
    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE
               1.000

AND THEN MERGING THE 1 RESULTS ABOVE WITH THE SINGLE SET OF RESULTS FROM "CHRONC"
DESCRIBED BELOW:

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


RESULTS WHICH ARE PRODUCED ONLY BY "EARLY" OR ONLY BY "CHRONC" ARE PRESENTED IN
LATER SECTIONS.

13-NOV-09  18:41:03    PAGE   1          PROB                           QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  3.25E+00  2.80E+00  6.17E+00
7.42E+00  1.05E+01  1.20E+01  2.22E+01  3.71E-04   43
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.31E+00  1.13E+00  2.33E+00
2.88E+00  3.29E+00  3.44E+00  4.89E+00  1.77E-05   35

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  7.25E+01  6.08E+01  1.29E+02
1.59E+02  2.31E+02  2.60E+02  4.94E+02  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  3.32E-06  3.09E-06  5.80E-06
6.99E-06  8.09E-06  8.62E-06  1.25E-05  1.77E-05   35
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  1 OF  8:
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    NCF

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:41:03    PAGE   2          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  2.44E-01  2.12E-01  4.61E-01
5.50E-01  7.57E-01  8.57E-01  1.19E+00  3.71E-04   43
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.04E-01  9.39E-02  1.78E-01
2.13E-01  2.81E-01  3.01E-01  3.34E-01  5.05E-06  134
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  5.21E+00  4.56E+00  9.66E+00
1.11E+01  1.50E+01  1.70E+01  2.58E+01  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.66E-07  2.33E-07  4.67E-07
5.95E-07  7.18E-07  7.30E-07  8.54E-07  5.05E-06  134
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  1 OF  8:
    NCF

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:41:03    PAGE   3          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  3.01E+00  2.48E+00  5.72E+00
7.14E+00  9.13E+00  1.03E+01  2.10E+01  3.71E-04   43
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 CAN FAT/TOTAL                0-16.1 km  1.0000  1.20E+00  1.07E+00  2.19E+00
2.76E+00  3.23E+00  3.36E+00  4.59E+00  1.77E-05   35

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  6.73E+01  5.65E+01  1.22E+02
1.47E+02  2.11E+02  2.29E+02  4.69E+02  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  3.06E-06  2.69E-06  5.50E-06
6.76E-06  7.72E-06  8.08E-06  1.17E-05  1.77E-05   35

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  6.73E+01  5.65E+01  1.22E+02
1.47E+02  2.11E+02  2.29E+02  4.69E+02  3.71E-04   43
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  6.67E+01  5.63E+01  1.22E+02
1.47E+02  2.11E+02  2.29E+02  4.68E+02  3.71E-04   43
 TOTAL INGESTION PATHWAYS DOSE           1.0000  6.59E-01  2.09E-01  2.19E+00
3.07E+00  4.33E+00  5.01E+00  6.42E+00  6.70E-05   47
 LONG-TERM GROUNDSHINE DOSE              1.0000  6.46E+01  5.46E+01  1.18E+02
1.39E+02  2.01E+02  2.21E+02  4.54E+02  3.71E-04   43
 LONG-TERM RESUSPENSION DOSE             1.0000  2.08E+00  1.72E+00  3.96E+00
5.02E+00  6.40E+00  7.11E+00  1.46E+01  3.71E-04   43
 WATER INGESTION DOSE                    1.0000  3.80E-02  3.25E-02  6.73E-02
7.76E-02  1.01E-01  1.05E-01  1.27E-01  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE     0.6170  9.09E-03  5.68E-03  2.23E-02
2.56E-02  3.35E-02  3.68E-02  9.50E-02  3.23E-04   36
 FARM-DEPENDENT DECONTAMINATION DOSE     0.6170  9.61E-07  5.98E-07  2.26E-06
2.65E-06  3.49E-06  3.85E-06  3.47E-05  3.23E-04   36
 INGESTION OF GRAINS                     1.0000  1.89E-02  1.88E-04  7.08E-02
8.99E-02  1.22E-01  1.36E-01  1.84E-01  7.42E-04    7
 INGESTION OF LEAF VEG                   1.0000  2.81E-02  9.51E-04  9.85E-02
1.33E-01  3.07E-01  3.68E-01  7.90E-01  6.70E-05   47
 INGESTION OF ROOT CROPS                 1.0000  2.50E-02  4.91E-04  9.40E-02
1.20E-01  1.93E-01  2.09E-01  2.41E-01  7.42E-04    7
 INGESTION OF FRUITS                     1.0000  3.69E-02  1.59E-03  1.22E-01
1.68E-01  2.89E-01  3.12E-01  3.54E-01  7.42E-04    7
 INGESTION OF LEGUMES                    1.0000  2.14E-02  1.27E-03  7.89E-02
1.05E-01  1.42E-01  1.62E-01  2.05E-01  7.42E-04    7
 INGESTION OF BEEF                       1.0000  2.03E-01  6.15E-02  7.19E-01
9.54E-01  1.12E+00  1.18E+00  1.80E+00  2.06E-05  135
 INGESTION OF MILK                       1.0000  2.31E-01  5.82E-02  7.95E-01
1.06E+00  1.49E+00  1.73E+00  2.13E+00  2.06E-05  135
 INGESTION OF POULTRY                    1.0000  4.49E-02  1.27E-02  1.29E-01
1.91E-01  3.86E-01  5.05E-01  1.00E+00  6.70E-05   47
 INGESTION OF OTHER MEAT CROPS           1.0000  1.18E-02  6.17E-03  2.93E-02
3.78E-02  7.71E-02  9.54E-02  1.90E-01  6.70E-05   47

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    0.7959  2.09E+05  1.29E+05  3.58E+05
3.89E+05  4.73E+05  6.65E+05  1.62E+06  8.17E-06   36
 POP.-DEPENDENT COSTS                    0.6170  2.01E+05  1.29E+05  3.57E+05
3.88E+05  4.71E+05  6.61E+05  1.53E+06  3.23E-04   36
 FARM-DEPENDENT COSTS                    0.7959  8.25E+03  8.44E+02  2.43E+04
3.98E+04  7.42E+04  7.98E+04  1.76E+05  1.91E-05   35
 POP.-DEPENDENT DECONTAMINATION COST     0.6170  4.30E+04  3.51E+04  7.91E+04
8.38E+04  9.59E+04  1.51E+05  4.11E+05  3.23E-04   36
 FARM-DEPENDENT DECONTAMINATION COST     0.6170  3.45E+01  2.32E+01  7.85E+01
8.34E+01  9.58E+01  1.25E+02  2.97E+02  3.23E-04   36
 POP.-DEPENDENT INTERDICTION COST        0.6170  1.58E+05  1.24E+05  3.54E+05
3.83E+05  4.60E+05  4.98E+05  1.12E+06  3.23E-04   36
 FARM-DEPENDENT INTERDICTION COST        0.7959  6.46E+03  5.97E+02  1.65E+04
3.04E+04  5.32E+04  5.72E+04  1.39E+05  1.91E-05   35
 POP.-DEPENDENT CONDEMNATION COST        0.0000  0.00E+00  0.00E+00  0.00E+00
```

0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
 FARM-DEPENDENT CONDEMNATION COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
 EMERGENCY PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
13-NOV-09 18:41:03 PAGE 4 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($) 0-80.5 km
 MILK DISPOSAL COST 0.6588 3.18E+01 4.16E-01 9.03E+01
1.93E+02 4.71E+02 5.37E+02 6.33E+02 1.39E-03 35
 CROP DISPOSAL COST 0.6588 1.72E+03 1.43E+02 4.38E+03
8.60E+03 1.31E+04 1.51E+04 3.62E+04 1.91E-05 35
XXXX

XXXX

XXXX

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SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:41:03    PAGE   6          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.9800  8.17E+01  3.60E+01  2.58E+02
3.23E+02  4.12E+02  4.58E+02  6.87E+02  5.71E-05   90
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.67E+04  1.11E+04  3.63E+04
5.29E+04  8.46E+04  9.59E+04  1.06E+05  3.97E-03   59
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.82E+03  3.46E+03  7.03E+03
8.01E+03  1.06E+04  1.17E+04  1.58E+04  5.42E-04   55
 ERL FAT/TOTAL               0-16.1 km  0.9800  8.17E+01  3.60E+01  2.58E+02
3.23E+02  4.12E+02  4.58E+02  6.87E+02  5.71E-05   90

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.9800  1.23E-01  1.13E-01  1.79E-01
2.03E-01  2.17E-01  2.23E-01  2.53E-01  2.57E-04  136
 ERL FAT/TOTAL              0.3-1.6 km  0.7403  1.54E-02  3.44E-03  5.04E-02
5.19E-02  5.54E-02  5.70E-02  6.67E-02  1.14E-04  138
 ERL FAT/TOTAL              1.6-3.2 km  0.2979  5.74E-04  0.00E+00  9.81E-04
1.79E-03  1.30E-02 NOT-FOUND  1.39E-02  7.96E-03   44

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  2.21E+05  1.29E+05  5.08E+05
7.46E+05  1.10E+06  1.25E+06  1.31E+06  3.97E-03   59

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.9800  4.89E-03  2.24E-03  1.48E-02
2.08E-02  2.55E-02  2.79E-02  4.01E-02  5.71E-05   90
 CAN FAT/TOTAL               0-16.1 km  1.0000  9.79E-03  9.01E-03  1.73E-02
2.11E-02  2.83E-02  3.13E-02  4.05E-02  5.42E-04   55
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  2 OF  8:
    EARLY HIGH

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:41:03    PAGE   7          PROB                              QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
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HEALTH EFFECTS CASES
 CAN FAT/TOTAL                0-80.5 km  1.0000  1.19E+04  6.32E+03  2.89E+04
3.20E+04  3.84E+04  4.15E+04  6.01E+04  1.14E-04  100
 CAN FAT/TOTAL                0-16.1 km  1.0000  3.46E+02  3.23E+02  4.96E+02
5.72E+02  7.61E+02  8.37E+02  1.11E+03  5.56E-06  141

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  2.67E+05  1.31E+05  6.34E+05
7.53E+05  1.02E+06  1.07E+06  1.37E+06  1.14E-04  100

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  0.9741  4.15E-04  3.55E-04  7.51E-04
9.11E-04  1.11E-03  1.18E-03  1.63E-03  1.14E-04  127

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  2.67E+05  1.31E+05  6.34E+05
7.53E+05  1.02E+06  1.07E+06  1.37E+06  1.14E-04  100
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  2.24E+05  1.05E+05  5.52E+05
6.28E+05  7.35E+05  7.59E+05  9.07E+05  1.14E-04  100
 TOTAL INGESTION PATHWAYS DOSE           1.0000  2.38E+03  2.13E+03  3.78E+03
4.41E+03  5.58E+03  6.00E+03  7.26E+03  4.57E-04   55
 LONG-TERM GROUNDSHINE DOSE              1.0000  2.13E+05  1.03E+05  5.33E+05
6.00E+05  7.23E+05  7.47E+05  8.88E+05  1.14E-04  100
 LONG-TERM RESUSPENSION DOSE             1.0000  1.01E+04  4.76E+03  2.46E+04
2.88E+04  3.17E+04  3.25E+04  3.77E+04  1.02E-04   70
 WATER INGESTION DOSE                    1.0000  2.17E+03  2.02E+03  3.55E+03
4.07E+03  5.36E+03  5.84E+03  7.20E+03  4.57E-04   55
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  4.08E+04  2.01E+04  9.91E+04
1.45E+05  2.16E+05  2.27E+05  4.59E+05  1.14E-04  100
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  2.85E+01  1.13E+01  7.85E+01
9.56E+01  1.26E+02  1.41E+02  1.92E+02  7.42E-04    7
 INGESTION OF GRAINS                     1.0000  3.79E+00  1.61E+00  1.00E+01
1.22E+01  1.93E+01  2.10E+01  3.29E+01  2.22E-05   37
 INGESTION OF LEAF VEG                   1.0000  2.33E+01  9.86E+00  6.18E+01
7.27E+01  8.68E+01  9.37E+01  1.09E+02  7.42E-04    7
 INGESTION OF ROOT CROPS                 1.0000  1.42E+01  6.32E+00  3.42E+01
3.97E+01  5.26E+01  5.61E+01  6.68E+01  7.42E-04    7
 INGESTION OF FRUITS                     1.0000  1.43E+01  6.65E+00  3.45E+01
4.03E+01  5.17E+01  5.35E+01  7.03E+01  2.22E-05   37
 INGESTION OF LEGUMES                    1.0000  2.69E+01  1.16E+01  7.26E+01
8.28E+01  1.05E+02  1.12E+02  1.32E+02  7.42E-04    7
 INGESTION OF BEEF                       1.0000  5.81E+01  1.80E+01  1.56E+02
2.32E+02  3.79E+02  4.37E+02  6.52E+02  6.56E-04   96
 INGESTION OF MILK                       1.0000  4.77E+01  1.62E+01  1.48E+02
2.07E+02  2.58E+02  2.84E+02  4.61E+02  6.56E-04   96
 INGESTION OF POULTRY                    1.0000  1.39E+01  4.81E+00  3.76E+01
4.88E+01  8.74E+01  1.01E+02  1.11E+02  7.42E-04   59
 INGESTION OF OTHER MEAT CROPS           1.0000  6.09E+00  2.07E+00  1.68E+01
2.41E+01  5.02E+01  5.21E+01  5.76E+01  7.42E-04   59

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  1.55E+11  8.47E+10  3.88E+11
5.07E+11  6.24E+11  6.82E+11  1.02E+12  1.14E-04  100
 POP.-DEPENDENT COSTS                    1.0000  1.54E+11  8.39E+10  3.88E+11
5.07E+11  6.24E+11  6.82E+11  1.02E+12  1.14E-04  100
 FARM-DEPENDENT COSTS                    1.0000  3.59E+08  1.90E+08  1.00E+09
1.05E+09  1.18E+09  1.23E+09  1.48E+09  3.71E-04  127
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  3.73E+10  1.52E+10  1.04E+11
1.18E+11  1.59E+11  1.81E+11  2.00E+11  2.94E-03  127
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  3.53E+07  1.53E+07  9.05E+07
1.05E+08  1.28E+08  1.39E+08  1.60E+08  1.60E-03  127
 POP.-DEPENDENT INTERDICTION COST        1.0000  1.08E+11  5.48E+10  3.02E+11
3.38E+11  4.40E+11  4.93E+11  8.52E+11  1.14E-04  100
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 FARM-DEPENDENT INTERDICTION COST       1.0000  2.78E+08  1.13E+08  7.70E+08
8.81E+08  1.05E+09  1.09E+09  1.25E+09  3.71E-04  127
 POP.-DEPENDENT CONDEMNATION COST       1.0000  8.83E+09  5.35E+09  1.73E+10
3.76E+10  5.49E+10  5.87E+10  6.34E+10  2.25E-03    2
 FARM-DEPENDENT CONDEMNATION COST       1.0000  7.78E+06  4.40E+06  1.93E+07
2.70E+07  5.12E+07  5.21E+07  5.56E+07  3.37E-04    2
 EMERGENCY PHASE COST                   1.0000  9.64E+07  4.54E+07  2.08E+08
3.30E+08  6.55E+08 NOT-FOUND  1.54E+09  6.16E-03   78
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:41:03    PAGE   8          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.01E+06  1.81E+05  2.91E+06
3.63E+06  5.30E+06  5.70E+06  6.95E+06  7.42E-04  111
 CROP DISPOSAL COST                     1.0000  3.65E+07  3.35E+07  6.05E+07
6.79E+07  8.33E+07  9.07E+07  9.89E+07  2.45E-03   39
XXXX
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  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:41:03    PAGE  10          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.7411  7.97E+00  2.99E+00  2.19E+01
2.50E+01  3.21E+01  3.44E+01  5.05E+01  5.71E-05   44
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.61E+03  4.00E+03  1.12E+04
1.46E+04  2.68E+04 NOT-FOUND  3.82E+04  6.16E-03   78
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.40E+03  1.21E+03  2.56E+03
3.04E+03  3.54E+03  3.77E+03  5.19E+03  8.56E-05   44
 ERL FAT/TOTAL               0-16.1 km  0.7411  7.97E+00  2.99E+00  2.19E+01
2.50E+01  3.21E+01  3.44E+01  5.05E+01  5.71E-05   44

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.7411  3.67E-02  2.00E-02  8.96E-02
1.01E-01  1.06E-01  1.08E-01  1.20E-01  1.14E-04  138
 ERL FAT/TOTAL              0.3-1.6 km  0.1437  1.32E-04  0.00E+00  2.42E-04
4.11E-04  3.71E-03 NOT-FOUND  3.93E-03  7.96E-03   44
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  7.07E+04  4.52E+04  1.67E+05
2.25E+05  3.20E+05  3.42E+05  4.90E+05  1.14E-04  100

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.7411  4.78E-04  1.82E-04  1.23E-03
1.49E-03  2.10E-03  2.22E-03  3.03E-03  5.71E-05   44
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.59E-03  3.27E-03  6.36E-03
7.34E-03  9.21E-03  1.01E-02  1.33E-02  8.56E-05   44
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  3 OF  8:
    EARLY MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:41:03    PAGE  11          PROB                            QUANTILES
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                                PEAK      PEAK  PEAK
                                                NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL                0-80.5 km  1.0000  5.40E+03  2.68E+03  1.31E+04
1.75E+04  2.47E+04  2.77E+04  2.88E+04  3.97E-03    7
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.80E+02  2.60E+02  4.30E+02
5.03E+02  5.53E+02  5.76E+02  1.02E+03  2.27E-06   10

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.19E+05  5.96E+04  3.07E+05
3.79E+05  5.53E+05  6.12E+05  6.33E+05  3.97E-03    7

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  3.47E-04  3.17E-04  5.22E-04
5.55E-04  6.38E-04  6.78E-04  1.14E-03  2.27E-06   10

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  1.19E+05  5.96E+04  3.07E+05
3.79E+05  5.53E+05  6.12E+05  6.33E+05  3.97E-03    7
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  1.07E+05  4.72E+04  2.79E+05
3.51E+05  5.20E+05  5.60E+05  5.74E+05  3.97E-03    7
 TOTAL INGESTION PATHWAYS DOSE           1.0000  3.49E+02  2.88E+02  6.55E+02
7.85E+02  1.11E+03 NOT-FOUND  1.25E+03  5.37E-03  103
 LONG-TERM GROUNDSHINE DOSE              1.0000  9.49E+04  4.35E+04  2.42E+05
3.17E+05  4.23E+05  4.80E+05  5.09E+05  3.97E-03    7
 LONG-TERM RESUSPENSION DOSE             1.0000  1.19E+04  5.31E+03  3.11E+04
3.86E+04  5.62E+04  6.23E+04  6.45E+04  3.97E-03    7
 WATER INGESTION DOSE                    1.0000  1.67E+02  1.38E+02  3.05E+02
3.39E+02  4.33E+02  4.82E+02  5.58E+02  4.57E-04   55
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  1.15E+04  7.20E+03  2.66E+04
3.58E+04  5.38E+04  5.82E+04  1.11E+05  1.14E-04  100
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  7.72E+00  2.82E+00  2.30E+01
3.06E+01  3.84E+01  4.24E+01  5.27E+01  7.42E-04    7
 INGESTION OF GRAINS                     1.0000  4.76E+00  7.96E-01  1.62E+01
2.45E+01  3.52E+01  3.87E+01  4.08E+01  3.34E-03   24
 INGESTION OF LEAF VEG                   1.0000  1.14E+01  4.31E+00  3.11E+01
5.02E+01  8.59E+01  1.03E+02  1.49E+02  6.57E-05   47
 INGESTION OF ROOT CROPS                 1.0000  7.15E+00  2.31E+00  2.35E+01
3.13E+01  4.17E+01  4.72E+01  5.40E+01  3.34E-03   24
 INGESTION OF FRUITS                     1.0000  1.04E+01  3.38E+00  3.41E+01
5.03E+01  7.00E+01  7.57E+01  7.92E+01  3.34E-03   24
 INGESTION OF LEGUMES                    1.0000  9.24E+00  3.68E+00  2.59E+01
3.19E+01  4.07E+01  4.52E+01  4.80E+01  3.34E-03   24
 INGESTION OF BEEF                       1.0000  7.61E+01  3.20E+01  2.00E+02
2.53E+02  5.00E+02 NOT-FOUND  6.48E+02  5.37E-03  103
 INGESTION OF MILK                       1.0000  4.17E+01  1.64E+01  1.02E+02
1.43E+02  3.20E+02 NOT-FOUND  4.14E+02  5.37E-03  103
 INGESTION OF POULTRY                    1.0000  1.56E+01  6.47E+00  4.48E+01
5.37E+01  6.69E+01  7.13E+01  8.92E+01  6.57E-05   47
 INGESTION OF OTHER MEAT CROPS           1.0000  5.91E+00  2.40E+00  1.59E+01
2.38E+01  3.60E+01 NOT-FOUND  3.96E+01  5.37E-03  103

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  4.65E+10  2.12E+10  1.16E+11
2.06E+11  2.31E+11  2.43E+11  3.64E+11  1.14E-04  100
 POP.-DEPENDENT COSTS                    1.0000  4.64E+10  2.11E+10  1.16E+11
2.06E+11  2.31E+11  2.43E+11  3.64E+11  1.14E-04  100
 FARM-DEPENDENT COSTS                    1.0000  1.34E+08  5.12E+07  3.86E+08
5.60E+08  8.26E+08  9.19E+08  1.10E+09  6.56E-04  127
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.11E+10  4.96E+09  2.82E+10
4.97E+10  6.77E+10  7.31E+10  1.18E+11  1.14E-04  100
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.21E+07  5.11E+06  3.24E+07
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3.63E+07  4.73E+07  5.09E+07  6.36E+07  6.57E-05  139
 POP.-DEPENDENT INTERDICTION COST       1.0000  3.47E+10  1.42E+10  8.70E+10
1.15E+11  1.70E+11  2.00E+11  2.46E+11  1.14E-04  100
 FARM-DEPENDENT INTERDICTION COST       1.0000  1.08E+08  3.25E+07  3.47E+08
4.92E+08  7.59E+08  8.14E+08  1.00E+09  6.56E-04  127
 POP.-DEPENDENT CONDEMNATION COST       0.9897  5.74E+08  5.21E+08  1.21E+09
1.53E+09  2.15E+09  2.29E+09  4.01E+09  8.56E-05   67
 FARM-DEPENDENT CONDEMNATION COST       0.9800  2.24E+05  1.84E+05  4.79E+05
6.77E+05  1.01E+06  1.11E+06  1.78E+06  1.15E-04   80
 EMERGENCY PHASE COST                   1.0000  1.79E+07  1.13E+07  5.36E+07
6.98E+07  7.96E+07 NOT-FOUND  8.07E+07  8.36E-03   95
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:41:03    PAGE  12          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  5.04E+05  2.99E+04  1.89E+06
2.53E+06  3.77E+06  4.33E+06  5.60E+06  1.38E-04   32
 CROP DISPOSAL COST                     1.0000  1.29E+07  6.40E+06  3.28E+07
4.09E+07  5.57E+07  6.01E+07  8.38E+07  1.23E-03  127
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1.22E-03  1.45E-03  1.57E-03  2.10E-03  1.01E-06   30
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:41:03    PAGE  14          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.05E+02  5.11E+02  1.14E+03
1.45E+03  2.18E+03  2.38E+03  3.04E+03  8.31E-04   25
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.14E+02  1.90E+02  3.81E+02
4.51E+02  5.41E+02  5.66E+02  6.55E+02  5.42E-04   55
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  8.95E+03  6.75E+03  1.88E+04
2.49E+04  3.32E+04  3.54E+04  5.02E+04  1.14E-04  100

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  5.47E-04  4.97E-04  1.01E-03
1.08E-03  1.26E-03  1.35E-03  1.68E-03  5.42E-04   55
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  4 OF  8:
    EARLY LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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13-NOV-09  18:41:03    PAGE  15          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  1.70E+03  8.56E+02  4.45E+03
6.60E+03  9.70E+03  1.06E+04  1.63E+04  1.14E-04  100
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.15E+02  1.06E+02  1.62E+02
1.94E+02  2.16E+02  2.24E+02  3.57E+02  2.27E-06   10

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  3.72E+04  1.82E+04  9.28E+04
1.23E+05  2.04E+05  2.17E+05  3.56E+05  1.14E-04  100

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.33E-04  2.18E-04  3.38E-04
3.70E-04  4.57E-04  5.00E-04  7.55E-04  2.27E-06   10

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  3.72E+04  1.82E+04  9.28E+04
1.23E+05  2.04E+05  2.17E+05  3.56E+05  1.14E-04  100
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  3.64E+04  1.69E+04  9.19E+04
1.22E+05  2.04E+05  2.17E+05  3.54E+05  1.14E-04  100
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.06E+02  5.13E+01  2.65E+02
3.46E+02  5.17E+02  5.41E+02  6.20E+02  6.56E-04  127
 LONG-TERM GROUNDSHINE DOSE             1.0000  3.28E+04  1.52E+04  8.64E+04
1.17E+05  1.91E+05  2.11E+05  3.19E+05  1.14E-04  100
 LONG-TERM RESUSPENSION DOSE            1.0000  3.55E+03  1.57E+03  9.14E+03
1.22E+04  2.04E+04  2.17E+04  3.47E+04  1.14E-04  100
 WATER INGESTION DOSE                   1.0000  2.19E+01  2.05E+01  3.64E+01
4.24E+01  5.50E+01  5.94E+01  7.34E+01  4.57E-04   55
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  7.43E+02  6.60E+02  1.36E+03
1.66E+03  2.27E+03  2.48E+03  3.16E+03  1.17E-03  129
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.07E-01  2.31E-01  9.34E-01
1.40E+00  2.48E+00  2.89E+00  3.29E+00  1.40E-03   55
 INGESTION OF GRAINS                    1.0000  2.78E+00  1.46E-01  1.04E+01
1.47E+01  2.15E+01  2.25E+01  2.95E+01  1.13E-04   32
 INGESTION OF LEAF VEG                  1.0000  4.77E+00  9.87E-01  1.49E+01
2.30E+01  4.59E+01  5.49E+01  1.20E+02  3.03E-05   48
 INGESTION OF ROOT CROPS                1.0000  3.78E+00  4.68E-01  1.31E+01
1.93E+01  3.04E+01  3.16E+01  3.88E+01  1.13E-04   32
 INGESTION OF FRUITS                    1.0000  5.58E+00  8.05E-01  2.03E+01
2.88E+01  4.77E+01  5.08E+01  5.70E+01  1.13E-04   32
 INGESTION OF LEGUMES                   1.0000  3.63E+00  9.62E-01  1.24E+01
1.77E+01  2.50E+01  2.79E+01  3.37E+01  1.13E-04   32
 INGESTION OF BEEF                      1.0000  3.29E+01  1.19E+01  9.35E+01
1.25E+02  2.04E+02  2.11E+02  2.60E+02  6.57E-05  139
 INGESTION OF MILK                      1.0000  2.17E+01  8.42E+00  6.44E+01
8.83E+01  1.14E+02  1.22E+02  1.48E+02  6.56E-04   39
 INGESTION OF POULTRY                   1.0000  6.96E+00  2.49E+00  1.93E+01
2.95E+01  3.89E+01  4.36E+01  8.73E+01  3.03E-05   48
 INGESTION OF OTHER MEAT CROPS          1.0000  2.09E+00  9.13E-01  5.49E+00
6.59E+00  8.34E+00  9.11E+00  1.56E+01  3.03E-05   48

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  3.53E+09  2.02E+09  6.72E+09
9.36E+09  1.84E+10  3.03E+10  3.33E+10  4.24E-05   15
 POP.-DEPENDENT COSTS                   1.0000  3.50E+09  1.95E+09  6.71E+09
9.35E+09  1.84E+10  3.03E+10  3.33E+10  4.24E-05   15
 FARM-DEPENDENT COSTS                   1.0000  2.96E+07  5.74E+06  9.76E+07
1.66E+08  3.13E+08  3.40E+08  4.23E+08  7.42E-04    7
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 POP.-DEPENDENT DECONTAMINATION COST    1.0000  8.03E+08  4.70E+08  1.56E+09
2.07E+09  4.62E+09 NOT-FOUND  7.17E+09  6.16E-03   78
 FARM-DEPENDENT DECONTAMINATION COST    1.0000  1.30E+06  3.56E+05  4.01E+06
5.37E+06  9.02E+06  1.03E+07  1.25E+07  8.28E-04    7
 POP.-DEPENDENT INTERDICTION COST       1.0000  2.66E+09  1.53E+09  5.46E+09
7.01E+09  1.81E+10  2.05E+10  2.61E+10  4.24E-05   15
 FARM-DEPENDENT INTERDICTION COST       1.0000  2.46E+07  3.91E+06  7.63E+07
1.42E+08  3.03E+08  3.19E+08  3.70E+08  7.42E-04    7
 POP.-DEPENDENT CONDEMNATION COST       0.8941  2.89E+07  1.13E+07  1.08E+08
1.23E+08  1.68E+08  1.91E+08  4.67E+08  5.71E-05   90
 FARM-DEPENDENT CONDEMNATION COST       0.7868  9.64E+03  3.17E+03  9.88E+03
7.04E+04  7.65E+04 NOT-FOUND  7.73E+04  8.12E-03    1
 EMERGENCY PHASE COST                   1.0000  1.64E+06  1.21E+06  3.53E+06
4.76E+06  7.02E+06  7.67E+06  1.22E+07  1.14E-04   68
 INTERMEDIATE PHASE COST                0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:41:03    PAGE  16          PROB                            QUANTILES
                           PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                     1.0000  1.65E+05  6.38E+03  6.42E+05
1.02E+06  1.91E+06  2.24E+06  4.14E+06  8.76E-05  135
 CROP DISPOSAL COST                     1.0000  3.57E+06  4.55E+05  1.07E+07
1.45E+07  3.14E+07  4.21E+07  4.43E+07  4.44E-03   25
XXXX
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POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.45E-03  1.21E-03  2.27E-03
2.60E-03  3.10E-03  3.19E-03  3.71E-03  9.10E-05  122
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  5 OF  8:
    LATE HIGH

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:41:03    PAGE  18          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                     NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.2446  7.37E-02  0.00E+00  1.81E-01
4.26E-01  1.11E+00  1.30E+00  3.75E+00  3.23E-04   36
 CAN FAT/TOTAL              0-80.5 km  1.0000  1.49E+03  1.12E+03  3.12E+03
3.85E+03  5.59E+03  6.18E+03  8.91E+03  3.71E-04   43
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.02E+02  3.50E+02  6.56E+02
7.58E+02  1.00E+03  1.02E+03  1.15E+03  9.10E-05  122
 ERL FAT/TOTAL              0-16.1 km  0.2446  7.37E-02  0.00E+00  1.81E-01
4.26E-01  1.11E+00  1.30E+00  3.75E+00  3.23E-04   36

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.2446  3.50E-04  0.00E+00  1.00E-03
2.16E-03  5.10E-03  5.63E-03  1.38E-02  8.56E-04   36
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  3.27E+04  2.35E+04  7.19E+04
9.32E+04  1.23E+05  1.36E+05  2.09E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.2446  4.42E-06  0.00E+00  1.30E-05
2.64E-05  7.41E-05  8.02E-05  2.25E-04  3.23E-04   36
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.03E-03  9.95E-04  1.62E-03
2.00E-03  2.21E-03  2.30E-03  2.94E-03  9.10E-05  122
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  5 OF  8:
    LATE HIGH
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RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:41:03    PAGE  19          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  6.46E+03  3.08E+03  1.70E+04
2.10E+04  2.53E+04  2.75E+04  3.18E+04  1.17E-03   45
 CAN FAT/TOTAL               0-16.1 km  1.0000  2.32E+02  2.16E+02  3.10E+02
3.21E+02  3.47E+02  3.59E+02  5.14E+02  5.05E-06   15

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.45E+05  7.07E+04  3.64E+05
4.75E+05  5.73E+05  6.12E+05  7.11E+05  1.17E-03   45

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  4.21E-04  3.83E-04  6.25E-04
7.04E-04  7.80E-04  8.16E-04  9.41E-04  5.42E-04   45

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.45E+05  7.07E+04  3.64E+05
4.75E+05  5.73E+05  6.12E+05  7.11E+05  1.17E-03   45
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.40E+05  6.55E+04  3.60E+05
4.68E+05  5.72E+05  6.11E+05  7.03E+05  1.17E-03   45
 TOTAL INGESTION PATHWAYS DOSE          1.0000  3.92E+02  3.38E+02  6.94E+02
7.35E+02  8.26E+02  8.69E+02  1.11E+03  1.62E-04   36
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.37E+05  6.29E+04  3.52E+05
4.47E+05  5.63E+05  6.01E+05  6.87E+05  1.17E-03   45
 LONG-TERM RESUSPENSION DOSE            1.0000  3.14E+03  1.28E+03  8.86E+03
1.03E+04  1.12E+04  1.16E+04  1.64E+04  8.48E-06   21
 WATER INGESTION DOSE                   1.0000  3.19E+02  2.85E+02  5.65E+02
7.01E+02  7.73E+02  8.07E+02  1.07E+03  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  4.06E+03  2.82E+03  9.23E+03
1.13E+04  1.65E+04  1.94E+04  5.18E+04  3.71E-04   43
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  3.21E+00  1.32E+00  9.02E+00
1.17E+01  1.85E+01  2.06E+01  2.35E+01  8.28E-04    7
 INGESTION OF GRAINS                    1.0000  1.98E+00  5.77E-01  7.41E+00
9.44E+00  1.08E+01  1.11E+01  1.54E+01  9.02E-06   18
 INGESTION OF LEAF VEG                  1.0000  3.59E+00  1.53E+00  1.06E+01
1.22E+01  1.71E+01  1.98E+01  2.22E+01  2.85E-05   52
 INGESTION OF ROOT CROPS                1.0000  2.95E+00  1.08E+00  1.01E+01
1.08E+01  1.25E+01  1.33E+01  2.04E+01  9.02E-06   18
 INGESTION OF FRUITS                    1.0000  5.73E+00  2.49E+00  1.52E+01
2.05E+01  2.41E+01  2.58E+01  3.18E+01  9.99E-04  129
 INGESTION OF LEGUMES                   1.0000  3.48E+00  1.61E+00  1.01E+01
1.11E+01  1.39E+01  1.52E+01  1.89E+01  9.99E-04  129
 INGESTION OF BEEF                      1.0000  2.57E+01  9.58E+00  6.93E+01
1.04E+02  2.04E+02  2.18E+02  2.76E+02  3.71E-04   97
 INGESTION OF MILK                      1.0000  1.84E+01  6.45E+00  5.20E+01
7.04E+01  1.07E+02  1.28E+02  2.36E+02  3.71E-04   97
 INGESTION OF POULTRY                   1.0000  6.40E+00  3.46E+00  1.46E+01
1.91E+01  2.37E+01  2.56E+01  2.87E+01  1.80E-03   45
 INGESTION OF OTHER MEAT CROPS          1.0000  4.70E+00  1.63E+00  1.36E+01
1.89E+01  3.03E+01  3.24E+01  4.17E+01  3.71E-04   97

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                   1.0000  3.89E+10  1.73E+10  9.40E+10
1.76E+11  2.27E+11  2.41E+11  3.75E+11  3.71E-04   43
 POP.-DEPENDENT COSTS                   1.0000  3.87E+10  1.70E+10  9.40E+10
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1.76E+11  2.27E+11  2.41E+11  3.75E+11  3.71E-04   43
 FARM-DEPENDENT COSTS                    1.0000  2.45E+08  1.35E+08  7.14E+08
8.20E+08  1.09E+09  1.21E+09  1.39E+09  1.94E-03  129
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  8.85E+09  3.61E+09  2.25E+10
3.29E+10  5.30E+10  5.65E+10  1.21E+11  3.71E-04   43
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.10E+07  4.33E+06  3.09E+07
3.56E+07  4.92E+07  5.69E+07  6.82E+07  2.11E-03   43
 POP.-DEPENDENT INTERDICTION COST        1.0000  2.87E+10  1.06E+10  6.78E+10
1.07E+11  1.44E+11  1.64E+11  2.54E+11  3.71E-04   43
 FARM-DEPENDENT INTERDICTION COST        1.0000  2.01E+08  7.61E+07  6.08E+08
7.56E+08  1.01E+09  1.11E+09  1.26E+09  1.94E-03  129
 POP.-DEPENDENT CONDEMNATION COST        1.0000  1.14E+09  9.36E+08  2.32E+09
3.01E+09  4.19E+09  4.82E+09  5.78E+09  8.85E-06   10
 FARM-DEPENDENT CONDEMNATION COST        1.0000  4.19E+05  3.14E+05  9.42E+05
1.16E+06  1.74E+06 NOT-FOUND  1.90E+06  7.18E-03    9
 EMERGENCY PHASE COST                    1.0000  6.76E+06  6.45E+06  1.12E+07
1.28E+07  1.74E+07  1.99E+07  2.09E+07  5.71E-04   94
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:41:03    PAGE  20          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  9.62E+05  1.70E+05  2.71E+06
3.61E+06  5.55E+06  6.06E+06  7.05E+06  2.32E-04   22
 CROP DISPOSAL COST                      1.0000  3.19E+07  2.88E+07  5.92E+07
6.77E+07  8.31E+07  9.02E+07  1.19E+08  5.42E-04  129
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POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  6.45E+04  3.54E+04  1.59E+05
2.14E+05  3.03E+05  3.31E+05  4.62E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  6.90E-04  6.23E-04  1.02E-03
1.05E-03  1.12E-03  1.16E-03  1.65E-03  1.52E-06  132
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:41:03    PAGE  22          PROB                            QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL               0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-80.5 km  1.0000  3.87E+02  3.20E+02  7.47E+02
9.29E+02  1.21E+03  1.33E+03  1.91E+03  3.71E-04   43
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.42E+02  1.25E+02  2.46E+02
2.92E+02  3.24E+02  3.36E+02  4.10E+02  1.14E-04   68
 ERL FAT/TOTAL               0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL              1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  7.22E+03  5.81E+03  1.40E+04
1.84E+04  2.45E+04  2.71E+04  4.05E+04  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.64E-04  3.29E-04  6.26E-04
7.14E-04  8.06E-04  8.49E-04  1.05E-03  1.14E-04   68
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model
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SOURCE TERM  6 OF  8:
    LATE MEDIUM

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:41:03    PAGE  23          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  2.57E+03  1.29E+03  6.84E+03
9.36E+03  1.18E+04  1.27E+04  1.90E+04  1.38E-04  139
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.50E+02  1.24E+02  2.13E+02
2.33E+02  2.86E+02  3.01E+02  3.41E+02  2.27E-06   10

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  5.72E+04  2.80E+04  1.45E+05
2.04E+05  2.57E+05  2.84E+05  4.24E+05  1.38E-04  139

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  3.26E-04  3.09E-04  4.87E-04
5.22E-04  5.85E-04  6.14E-04  7.69E-04  2.27E-06   29

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  5.72E+04  2.80E+04  1.45E+05
2.04E+05  2.57E+05  2.84E+05  4.24E+05  1.38E-04  139
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  5.64E+04  2.69E+04  1.45E+05
2.04E+05  2.57E+05  2.84E+05  4.22E+05  1.38E-04  139
 TOTAL INGESTION PATHWAYS DOSE          1.0000  1.51E+02  1.10E+02  3.04E+02
3.43E+02  4.54E+02  5.02E+02  5.24E+02  7.42E-04  101
 LONG-TERM GROUNDSHINE DOSE             1.0000  5.42E+04  2.57E+04  1.33E+05
1.89E+05  2.53E+05  2.82E+05  4.05E+05  1.38E-04  139
 LONG-TERM RESUSPENSION DOSE            1.0000  2.21E+03  1.04E+03  6.28E+03
8.39E+03  1.11E+04  1.18E+04  1.66E+04  1.38E-04  139
 WATER INGESTION DOSE                   1.0000  6.03E+01  5.25E+01  1.01E+02
1.09E+02  1.29E+02  1.39E+02  2.02E+02  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  6.45E+02  5.75E+02  1.15E+03
1.36E+03  2.00E+03  2.20E+03  4.98E+03  3.71E-04   43
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  4.38E-01  2.50E-01  9.99E-01
1.51E+00  2.79E+00  3.21E+00  4.31E+00  7.42E-04    7
 INGESTION OF GRAINS                    1.0000  2.79E+00  2.39E-01  1.05E+01
1.32E+01  2.03E+01  2.10E+01  2.86E+01  9.02E-06   21
 INGESTION OF LEAF VEG                  1.0000  4.47E+00  9.44E-01  1.34E+01
2.09E+01  3.67E+01  4.15E+01  6.35E+01  2.85E-04   53
 INGESTION OF ROOT CROPS                1.0000  3.79E+00  5.65E-01  1.28E+01
1.86E+01  2.59E+01  2.93E+01  3.76E+01  9.02E-06   21
 INGESTION OF FRUITS                    1.0000  5.84E+00  1.37E+00  2.17E+01
2.84E+01  3.39E+01  3.58E+01  5.55E+01  9.02E-06   21
 INGESTION OF LEGUMES                   1.0000  3.55E+00  1.05E+00  1.18E+01
1.58E+01  2.13E+01  2.23E+01  3.23E+01  9.02E-06   21
 INGESTION OF BEEF                      1.0000  3.52E+01  1.67E+01  8.76E+01
1.16E+02  2.02E+02  2.12E+02  2.51E+02  4.00E-04  101
 INGESTION OF MILK                      1.0000  2.27E+01  9.40E+00  5.61E+01
6.94E+01  1.14E+02  1.31E+02  1.96E+02  7.42E-04  101
 INGESTION OF POULTRY                   1.0000  8.51E+00  3.77E+00  2.18E+01
2.95E+01  5.14E+01  5.52E+01  7.62E+01  2.85E-04   53
 INGESTION OF OTHER MEAT CROPS          1.0000  4.02E+00  1.64E+00  1.11E+01
1.41E+01  2.10E+01  2.23E+01  2.78E+01  4.00E-04  101

ECONOMIC COST MEASURES ($)     0-80.5 km
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 TOTAL ECONOMIC COSTS                    1.0000  5.09E+09  3.55E+09  9.14E+09
1.29E+10  3.17E+10  3.49E+10  1.10E+11  3.71E-04   43
 POP.-DEPENDENT COSTS                    1.0000  5.01E+09  3.39E+09  9.09E+09
1.28E+10  3.17E+10  3.49E+10  1.10E+11  3.71E-04   43
 FARM-DEPENDENT COSTS                    1.0000  8.66E+07  2.83E+07  2.81E+08
3.55E+08  6.70E+08  7.57E+08  9.21E+08  1.03E-03  129
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.13E+09  7.68E+08  2.00E+09
3.52E+09  7.28E+09  7.78E+09  2.36E+10  3.71E-04   43
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.89E+06  6.55E+05  5.50E+06
7.47E+06  1.23E+07  1.47E+07  1.82E+07  2.11E-03   43
 POP.-DEPENDENT INTERDICTION COST        1.0000  3.73E+09  2.57E+09  6.55E+09
1.13E+10  2.25E+10  2.75E+10  8.65E+10  3.71E-04   43
 FARM-DEPENDENT INTERDICTION COST        1.0000  7.30E+07  1.36E+07  2.52E+08
3.36E+08  6.02E+08  7.31E+08  8.64E+08  1.03E-03  129
 POP.-DEPENDENT CONDEMNATION COST        1.0000  1.44E+08  1.10E+08  3.38E+08
3.97E+08  5.40E+08  5.90E+08  1.05E+09  1.20E-04   11
 FARM-DEPENDENT CONDEMNATION COST        0.9756  3.39E+04  9.41E+03  7.72E+04
8.19E+04  9.40E+04  9.97E+04  2.90E+05  1.32E-04    9
 EMERGENCY PHASE COST                    1.0000  1.41E+06  1.13E+06  2.79E+06
3.39E+06  5.02E+06  5.26E+06  6.92E+06  8.56E-05   99
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:41:03    PAGE  24          PROB                          QUANTILES
                          PEAK      PEAK  PEAK
                                       NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  5.20E+05  3.13E+04  1.64E+06
2.64E+06  4.90E+06  5.47E+06  6.55E+06  1.40E-03  129
 CROP DISPOSAL COST                      1.0000  1.11E+07  4.29E+06  3.11E+07
3.87E+07  5.44E+07  5.87E+07  8.17E+07  2.33E-06   22
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 CAN FAT/TOTAL                0-16.1 km  1.0000  1.06E+02  1.01E+02  1.50E+02
1.78E+02  2.11E+02  2.18E+02  2.42E+02  5.71E-04   94

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.48E+04  1.02E+04  3.33E+04
4.65E+04  6.12E+04  6.73E+04  1.41E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.62E-04  2.39E-04  3.84E-04
4.44E-04  5.23E-04  5.40E-04  5.94E-04  5.71E-04   94
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  7 OF  8:
    LATE LOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:41:03    PAGE  26          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL                0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-80.5 km  1.0000  6.95E+01  5.91E+01  1.28E+02
1.57E+02  2.30E+02  2.59E+02  3.65E+02  3.71E-04   43
 CAN FAT/TOTAL                0-16.1 km  1.0000  2.70E+01  2.42E+01  4.51E+01
5.74E+01  7.15E+01  7.25E+01  8.43E+01  2.27E-06  133
 ERL FAT/TOTAL                0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL                 0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL               1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.48E+03  1.15E+03  2.87E+03
3.26E+03  4.13E+03  4.57E+03  8.11E+03  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL                 0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL                0-16.1 km  1.0000  6.92E-05  6.38E-05  1.10E-04
1.21E-04  1.54E-04  1.71E-04  2.16E-04  2.27E-06  133
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES
```

"CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

SOURCE TERM 7 OF 8:
LATE LOW

RESULTS FROM THE "CHRONC" MODULE ALONE

COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model

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                                  PROB                                QUANTILES
                        PEAK      PEAK  PEAK
                                     NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL                0-80.5 km  1.0000  5.92E+02  3.69E+02  1.37E+03
1.87E+03  2.53E+03  2.82E+03  5.94E+03  3.71E-04   43
 CAN FAT/TOTAL                0-16.1 km  1.0000  7.92E+01  7.27E+01  1.06E+02
1.11E+02  1.23E+02  1.29E+02  1.86E+02  1.90E-05   47

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF          0-80.5 km  1.0000  1.33E+04  8.50E+03  3.19E+04
3.96E+04  5.65E+04  6.24E+04  1.33E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL                0-16.1 km  1.0000  1.93E-04  1.74E-04  3.01E-04
3.11E-04  3.36E-04  3.47E-04  4.53E-04  1.90E-05   47

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE           1.0000  1.33E+04  8.50E+03  3.19E+04
3.96E+04  5.65E+04  6.24E+04  1.33E+05  3.71E-04   43
 LONG-TERM DIRECT EXPOSURE PATHWAYS      1.0000  1.31E+04  8.37E+03  3.16E+04
3.94E+04  5.65E+04  6.24E+04  1.33E+05  3.71E-04   43
 TOTAL INGESTION PATHWAYS DOSE           1.0000  7.79E+01  3.35E+01  2.28E+02
3.06E+02  4.96E+02  5.40E+02  6.47E+02  1.03E-03  129
 LONG-TERM GROUNDSHINE DOSE              1.0000  1.26E+04  8.12E+03  3.03E+04
3.64E+04  5.38E+04  6.08E+04  1.27E+05  3.71E-04   43
 LONG-TERM RESUSPENSION DOSE             1.0000  5.70E+02  3.56E+02  1.36E+03
1.87E+03  2.44E+03  2.69E+03  5.83E+03  3.71E-04   43
 WATER INGESTION DOSE                    1.0000  1.22E+01  1.04E+01  2.08E+01
2.49E+01  3.16E+01  3.29E+01  4.04E+01  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE     1.0000  7.10E+01  6.21E+01  1.36E+02
1.75E+02  2.09E+02  2.14E+02  2.88E+02  1.09E-06   11
 FARM-DEPENDENT DECONTAMINATION DOSE     1.0000  3.14E-02  2.22E-02  7.07E-02
9.06E-02  1.60E-01  2.01E-01  2.66E-01  8.56E-05   78
 INGESTION OF GRAINS                     1.0000  2.44E+00  9.05E-02  8.97E+00
1.19E+01  1.96E+01  2.22E+01  2.86E+01  1.03E-03  129
 INGESTION OF LEAF VEG                   1.0000  3.69E+00  4.85E-01  1.29E+01
2.16E+01  3.57E+01  4.11E+01  7.17E+01  4.28E-04   53
 INGESTION OF ROOT CROPS                 1.0000  3.32E+00  3.48E-01  1.17E+01
1.79E+01  2.88E+01  3.21E+01  3.91E+01  1.03E-03  129
 INGESTION OF FRUITS                     1.0000  4.83E+00  4.47E-01  1.65E+01
2.60E+01  4.31E+01  5.06E+01  5.72E+01  1.03E-03  129
 INGESTION OF LEGUMES                    1.0000  2.96E+00  5.25E-01  1.07E+01
1.48E+01  2.59E+01  3.03E+01  3.35E+01  1.03E-03  129
 INGESTION OF BEEF                       1.0000  2.42E+01  7.10E+00  7.55E+01
1.03E+02  1.89E+02  2.14E+02  2.62E+02  1.03E-03  129
 INGESTION OF MILK                       1.0000  1.67E+01  5.49E+00  4.81E+01
7.06E+01  1.05E+02  1.09E+02  1.56E+02  4.04E-06   23
 INGESTION OF POULTRY                    1.0000  6.04E+00  1.78E+00  1.70E+01
3.07E+01  4.15E+01  4.72E+01  9.32E+01  4.28E-04   53
 INGESTION OF OTHER MEAT CROPS           1.0000  1.46E+00  5.33E-01  3.77E+00
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5.50E+00 8.22E+00 9.17E+00 1.64E+01 4.28E-04   53

ECONOMIC COST MEASURES ($)   0-80.5 km
 TOTAL ECONOMIC COSTS 1.0000 5.91E+08 5.43E+08 1.02E+09
1.06E+09 1.17E+09 1.21E+09 1.81E+09 5.44E-06   9
 POP.-DEPENDENT COSTS 1.0000 5.81E+08 5.31E+08 1.02E+09
1.06E+09 1.16E+09 1.21E+09 1.79E+09 5.44E-06   9
 FARM-DEPENDENT COSTS 1.0000 1.02E+07 1.58E+06 3.29E+07
5.58E+07 9.68E+07 1.20E+08 1.54E+08 2.11E-03   43
 POP.-DEPENDENT DECONTAMINATION COST 1.0000 1.44E+08 1.26E+08 2.60E+08
3.03E+08 3.25E+08 3.35E+08 4.53E+08 5.05E-06   9
 FARM-DEPENDENT DECONTAMINATION COST 1.0000 1.76E+05 8.66E+04 4.01E+05
7.01E+05 1.03E+06 1.05E+06 1.26E+06 2.06E-05   9
 POP.-DEPENDENT INTERDICTION COST 1.0000 4.28E+08 3.83E+08 8.04E+08
9.39E+08 1.03E+09 1.05E+09 1.29E+09 1.01E-06 137
 FARM-DEPENDENT INTERDICTION COST 1.0000 8.70E+06 1.09E+06 3.08E+07
5.13E+07 8.80E+07 1.10E+08 1.42E+08 2.11E-03   43
 POP.-DEPENDENT CONDEMNATION COST 0.8820 8.03E+06 3.96E+06 1.30E+07
1.55E+07 1.06E+08 1.16E+08 1.25E+08 2.68E-03   9
 FARM-DEPENDENT CONDEMNATION COST 0.8820 5.57E+03 2.85E+03 8.14E+03
8.89E+03 7.21E+04 7.64E+04 7.73E+04 4.32E-03   9
 EMERGENCY PHASE COST 0.9702 1.14E+05 7.53E+04 3.21E+05
3.71E+05 5.44E+05 7.02E+05 7.16E+05 1.56E-03   9
 INTERMEDIATE PHASE COST 0.0000 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00   0
13-NOV-09 18:41:03 PAGE 28 PROB QUANTILES
PEAK PEAK PEAK
NON-ZERO MEAN 50TH 90TH 95TH
99TH 99.5TH CONS PROB TRIAL
ECONOMIC COST MEASURES ($)   0-80.5 km
 MILK DISPOSAL COST 1.0000 8.99E+04 2.00E+03 3.20E+05
5.31E+05 1.27E+06 1.63E+06 2.52E+06 1.40E-03 129
 CROP DISPOSAL COST 1.0000 1.26E+06 2.31E+05 3.42E+06
5.23E+06 1.06E+07 1.25E+07 4.23E+07 5.42E-04   43
XXXX

XXXX

XXXX

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HEALTH EFFECTS CASES
 CAN FAT/TOTAL              0-80.5 km  1.0000  5.63E+02  3.64E+02  1.26E+03
1.63E+03  2.36E+03  2.64E+03  5.35E+03  3.71E-04   43
 CAN FAT/TOTAL              0-16.1 km  1.0000  9.36E+01  8.62E+01  1.23E+02
1.37E+02  1.74E+02  1.93E+02  2.20E+02  1.01E-06  137

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.26E+04  8.34E+03  2.94E+04
3.56E+04  5.29E+04  5.99E+04  1.20E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL              0-16.1 km  1.0000  2.32E-04  2.13E-04  3.32E-04
3.62E-04  4.42E-04  4.83E-04  5.45E-04  1.01E-06  137
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS

  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FOR A SINGLE EMERGENCY RESPONSE COHORT WITHOUT ANY WEIGHTING FRACTIONS BEING
APPLIED

    COHORT 1 = NO EVACUATION, RELOCATION MODELS APPLY EVERYWHE


13-NOV-09  18:41:03    PAGE  30          PROB                            QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 ERL FAT/TOTAL              0-80.5 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-80.5 km  1.0000  4.65E+01  3.78E+01  8.96E+01
1.08E+02  1.50E+02  1.73E+02  2.45E+02  3.71E-04   43
 CAN FAT/TOTAL              0-16.1 km  1.0000  1.77E+01  1.45E+01  3.10E+01
3.81E+01  5.05E+01  5.10E+01  5.60E+01  5.05E-06  134
 ERL FAT/TOTAL              0-16.1 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

AVERAGE INDIVIDUAL RISK
 ERL FAT/TOTAL               0-0.3 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             0.3-1.6 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 ERL FAT/TOTAL             1.6-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF        0-80.5 km  1.0000  1.03E+03  8.63E+02  2.02E+03
2.38E+03  3.27E+03  3.57E+03  5.56E+03  3.71E-04   43

POPULATION WEIGHTED RISK
 ERL FAT/TOTAL               0-3.2 km  0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
 CAN FAT/TOTAL              0-16.1 km  1.0000  4.54E-05  3.87E-05  8.06E-05
9.85E-05  1.06E-04  1.09E-04  1.43E-04  5.05E-06  134
  DATE AND TIME OF RUN = MACCS2 13-NOV-09  18:41:03   VERSION 1.13.1:  last revised
1/8/04, K. McFadden
  "ATMOS"  DESCRIPTION = ATMOS INPUT FOR IPEC CALCULATIONS
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```
  "EARLY"  DESCRIPTION = EARLY.IN, IPEC INPUT FROM THE EVACUATION TIME ESTIMATES

  "CHRONC" DESCRIPTION = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


SOURCE TERM  8 OF  8:
    LATE LOWLOW

RESULTS FROM THE "CHRONC" MODULE ALONE

    COHORT 2 = CHRONC.IN - IPEC, "New" COMIDA2-Based Food Model


13-NOV-09  18:41:03    PAGE  31          PROB                              QUANTILES
                         PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
HEALTH EFFECTS CASES
 CAN FAT/TOTAL               0-80.5 km  1.0000  5.16E+02  3.46E+02  1.14E+03
1.40E+03  2.18E+03  2.51E+03  5.11E+03  3.71E-04   43
 CAN FAT/TOTAL               0-16.1 km  1.0000  7.58E+01  7.14E+01  1.04E+02
1.07E+02  1.16E+02  1.20E+02  1.79E+02  1.01E-06  137

POPULATION DOSE (Sv)
 L-EDEWBODY  TOT LIF         0-80.5 km  1.0000  1.16E+04  7.73E+03  2.67E+04
3.31E+04  4.79E+04  5.31E+04  1.15E+05  3.71E-04   43

POPULATION WEIGHTED RISK
 CAN FAT/TOTAL               0-16.1 km  1.0000  1.86E-04  1.60E-04  2.98E-04
3.07E-04  3.24E-04  3.31E-04  4.41E-04  1.01E-06  137

L-EDEWBODY  POP. DOSE (Sv)     0-80.5 km
 TOTAL LONG-TERM PATHWAYS DOSE          1.0000  1.16E+04  7.73E+03  2.67E+04
3.31E+04  4.79E+04  5.31E+04  1.15E+05  3.71E-04   43
 LONG-TERM DIRECT EXPOSURE PATHWAYS     1.0000  1.15E+04  7.62E+03  2.66E+04
3.31E+04  4.79E+04  5.31E+04  1.15E+05  3.71E-04   43
 TOTAL INGESTION PATHWAYS DOSE          1.0000  7.14E+01  2.78E+01  2.07E+02
3.09E+02  4.79E+02  5.25E+02  6.04E+02  1.03E-03  129
 LONG-TERM GROUNDSHINE DOSE             1.0000  1.11E+04  7.50E+03  2.53E+04
3.15E+04  4.42E+04  5.07E+04  1.11E+05  3.71E-04   43
 LONG-TERM RESUSPENSION DOSE            1.0000  3.15E+02  2.12E+02  7.60E+02
1.00E+03  1.28E+03  1.42E+03  3.17E+03  3.71E-04   43
 WATER INGESTION DOSE                   1.0000  1.02E+01  9.07E+00  1.71E+01
2.04E+01  2.31E+01  2.43E+01  3.39E+01  1.48E-04   35
 POP.-DEPENDENT DECONTAMINATION DOSE    1.0000  5.59E+01  4.84E+01  1.03E+02
1.14E+02  1.45E+02  1.60E+02  2.57E+02  1.91E-05   35
 FARM-DEPENDENT DECONTAMINATION DOSE    1.0000  2.44E-02  1.67E-02  5.21E-02
7.20E-02  1.07E-01  1.18E-01  2.03E-01  9.27E-06   10
 INGESTION OF GRAINS                    1.0000  2.30E+00  5.95E-02  8.08E+00
1.20E+01  2.12E+01  2.23E+01  2.53E+01  1.03E-03  129
 INGESTION OF LEAF VEG                  1.0000  3.36E+00  2.81E-01  1.06E+01
2.05E+01  2.85E+01  3.62E+01  6.08E+01  6.57E-05   47
 INGESTION OF ROOT CROPS                1.0000  3.08E+00  1.87E-01  1.12E+01
1.62E+01  2.88E+01  3.11E+01  3.44E+01  1.03E-03  129
 INGESTION OF FRUITS                    1.0000  4.54E+00  3.83E-01  1.48E+01
2.38E+01  3.58E+01  3.96E+01  5.05E+01  1.03E-03  129
 INGESTION OF LEGUMES                   1.0000  2.68E+00  3.25E-01  9.27E+00
1.34E+01  2.21E+01  2.41E+01  2.93E+01  1.03E-03  129
 INGESTION OF BEEF                      1.0000  2.21E+01  6.48E+00  7.02E+01
9.68E+01  1.67E+02  2.02E+02  2.23E+02  1.03E-03  129
 INGESTION OF MILK                      1.0000  1.61E+01  4.74E+00  4.72E+01
7.32E+01  1.16E+02  1.28E+02  1.62E+02  1.03E-03  129
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 INGESTION OF POULTRY                    1.0000  5.74E+00  1.71E+00  1.63E+01
3.06E+01  4.57E+01  5.54E+01  8.32E+01  6.57E-05   47
 INGESTION OF OTHER MEAT CROPS           1.0000  1.24E+00  4.56E-01  2.91E+00
5.11E+00  7.51E+00  8.64E+00  1.38E+01  6.57E-05   47

ECONOMIC COST MEASURES ($)     0-80.5 km
 TOTAL ECONOMIC COSTS                    1.0000  5.09E+08  4.63E+08  9.07E+08
1.02E+09  1.12E+09  1.16E+09  1.70E+09  5.44E-06  134
 POP.-DEPENDENT COSTS                    1.0000  5.01E+08  4.40E+08  8.98E+08
1.02E+09  1.11E+09  1.16E+09  1.69E+09  5.44E-06  134
 FARM-DEPENDENT COSTS                    1.0000  8.29E+06  1.23E+06  2.40E+07
4.72E+07  6.82E+07  1.02E+08  1.49E+08  7.83E-05  139
 POP.-DEPENDENT DECONTAMINATION COST     1.0000  1.24E+08  1.11E+08  2.30E+08
2.83E+08  3.16E+08  3.24E+08  4.37E+08  1.52E-06  132
 FARM-DEPENDENT DECONTAMINATION COST     1.0000  1.49E+05  7.74E+04  3.43E+05
5.12E+05  1.01E+06  1.03E+06  1.25E+06  3.61E-05   10
 POP.-DEPENDENT INTERDICTION COST        1.0000  3.72E+08  3.37E+08  7.11E+08
8.07E+08  1.01E+09  1.03E+09  1.24E+09  5.44E-06  134
 FARM-DEPENDENT INTERDICTION COST        1.0000  7.14E+06  8.67E+05  2.22E+07
4.13E+07  6.68E+07  8.25E+07  1.37E+08  7.83E-05  139
 POP.-DEPENDENT CONDEMNATION COST        0.8535  5.27E+06  3.48E+06  1.09E+07
1.20E+07  1.48E+07  1.62E+07  1.25E+08  1.47E-05    9
 FARM-DEPENDENT CONDEMNATION COST        0.7243  1.68E+03  2.00E+03  2.43E+03
2.64E+03  7.57E+03 NOT-FOUND  8.49E+03  7.99E-03    2
 EMERGENCY PHASE COST                    0.9387  4.00E+04  1.35E+04  1.15E+05
1.30E+05  1.75E+05  1.99E+05  4.97E+05  2.86E-04   79
 INTERMEDIATE PHASE COST                 0.0000  0.00E+00  0.00E+00  0.00E+00
0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00    0
13-NOV-09  18:41:03    PAGE  32          PROB                           QUANTILES
                           PEAK      PEAK  PEAK
                                        NON-ZERO   MEAN      50TH      90TH      95TH
     99TH     99.5TH     CONS      PROB  TRIAL
ECONOMIC COST MEASURES ($)     0-80.5 km
 MILK DISPOSAL COST                      1.0000  6.33E+04  1.25E+03  2.14E+05
4.02E+05  1.02E+06  1.12E+06  1.96E+06  6.70E-05  139
 CROP DISPOSAL COST                      1.0000  9.34E+05  1.77E+05  2.43E+06
3.27E+06  7.02E+06  1.07E+07  3.97E+07  5.42E-04   43

Successful completion of MACCS2 was achieved!
This job required a total of     51.938 CPU seconds

   Input processing required      0.234 CPU seconds
         Simulation required     50.844 CPU seconds
  Output processing required      0.859 CPU seconds
```