PR 4.OUT

STORM CENTER COORDINATES, X = 198.0, Y = 420.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	25.00	5.40	2.92	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
B 25.	25.	23.48	5.21	2.88	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
C 50.	50.	21.97	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
D 100.	100.	20.45	4.87	2.82	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
E 175.	175.	19.13	4.75	2.81	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
F 300.	293.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
G 450.	359.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
H 700.	405.	11.93	3.70	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51
I 1000.	410.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	411.	7.20	2.60	1.69	1.20	.93	.76	.64	.56	.49	.44	.40	.36
K 2150.	411.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	411.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	411.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	411.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	411.	.57	.21	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		18.78	4.71	2.78	1.98	1.53	1.25	1.06	.92	.81	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.02	10.04	14.32	17.96	25.00	30.39	33.31	35.31	36.87	38.14	39.21	40.14	40.96	41.70	42.36	42.97
B	.98	1.96	2.92	5.62	9.38	13.41	16.83	23.48	28.69	31.57	33.57	35.12	36.39	37.46	38.40	39.22	39.95	40.62	41.23
C	.92	1.83	2.72	5.24	8.74	12.51	15.71	21.97	26.98	29.83	31.83	33.38	34.65	35.73	36.66	37.48	38.21	38.88	39.49
D	.85	1.69	2.52	4.85	8.10	11.61	14.59	20.45	25.32	28.14	30.14	31.70	32.97	34.04	34.97	35.79	36.53	37.19	37.80
E	.79	1.57	2.34	4.51	7.54	10.82	13.60	19.13	23.88	26.69	28.68	30.24	31.51	32.58	33.51	34.34	35.07	35.74	36.34
F	.72	1.44	2.15	4.13	6.90	9.93	12.48	17.61	22.24	25.04	27.04	28.60	29.87	30.94	31.87	32.69	33.43	34.09	34.70
G	.67	1.33	1.97	3.80	6.36	9.15	11.51	16.29	20.82	23.61	25.61	27.17	28.44	29.51	30.44	31.26	32.00	32.66	33.27
H	.21	.42	.62	1.25	2.49	4.89	7.13	11.93	15.63	17.99	19.67	20.98	22.05	22.95	23.73	24.42	25.04	25.60	26.11
I	.16	.33	.49	.98	1.96	3.86	5.62	9.47	12.62	14.62	16.04	17.14	18.04	18.80	19.47	20.05	20.57	21.04	21.47
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.80	11.49	12.69	13.62	14.38	15.02	15.58	16.08	16.52	16.92	17.28
K	.10	.20	.29	.58	1.16	2.29	3.33	5.68	7.81	9.21	10.21	10.99	11.62	12.16	12.63	13.04	13.41	13.74	14.04
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.61	9.11	9.54	9.91	10.23	10.52	10.78	11.02
M	.05	.10	.14	.29	.57	1.12	1.64	2.84	4.06	4.90	5.50	5.97	6.35	6.67	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.51	2.18	2.72	3.10	3.39	3.63	3.84	4.02	4.17	4.31	4.44	4.55
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.76	1.51	2.25	4.33	7.26	10.51	13.27	18.78	23.49	26.27	28.25	29.78	31.04	32.10	33.02	33.83	34.56	35.22	35.82

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.46
0200	.10	.20	0800	.12	.84	1400	.15	1.63	2000	.21	2.66
0300	.10	.30	0900	.12	.96	1500	.15	1.79	2100	.21	2.87
0400	.10	.40	1000	.12	1.08	1600	.15	1.94	2200	.21	3.08
0500	.10	.50	1100	.12	1.21	1700	.15	2.09	2300	.21	3.29
0600	.10	.60	1200	.12	1.33	1800	.15	2.25	2400	.21	3.50
6-HR TOTAL	.60			.73			.92			1.25	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.79	0700	.60	6.08	1300	1.43	11.61	1900	.56	29.53
0200	.30	4.10	0800	.65	6.73	1400	2.16	13.78	2000	.51	30.04
0300	.32	4.42	0900	.72	7.44	1500	3.25	17.03	2100	.47	30.51
0400	.33	4.75	1000	.80	8.25	1600	7.26	24.29	2200	.44	30.95
0500	.35	5.10	1100	.91	9.16	1700	2.76	27.05	2300	.41	31.36
0600	.37	5.48	1200	1.03	10.19	1800	1.92	28.97	2400	.39	31.75
6-HR TOTAL	1.98			4.71			18.78			2.78	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	32.01	0700	.18	33.46	1300	.14	34.48	1900	.11	35.27
0200	.26	32.26	0800	.18	33.64	1400	.14	34.62	2000	.11	35.38
0300	.26	32.52	0900	.18	33.82	1500	.14	34.75	2100	.11	35.49
0400	.26	32.77	1000	.18	33.99	1600	.14	34.89	2200	.11	35.60
0500	.26	33.03	1100	.18	34.17	1700	.14	35.02	2300	.11	35.71
0600	.26	33.29	1200	.18	34.35	1800	.14	35.16	2400	.11	35.82
6-HR TOTAL	1.53			1.06			.81			.66	

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PR 4.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3
STORM AREA = 450. SQ. MI., ORIENTATION = 170., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 198.0, Y = 420.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	25.00	5.40	2.92	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
B 25.	0.	23.48	5.21	2.88	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
C 50.	0.	21.97	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
D 100.	0.	20.45	4.87	2.82	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
E 175.	0.	19.13	4.75	2.81	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
F 300.	0.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
G 450.	17.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
H 700.	24.	11.93	3.70	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51
I 1000.	24.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	24.	7.20	2.60	1.69	1.20	.93	.76	.64	.56	.49	.44	.40	.36
K 2150.	24.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	24.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	24.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	24.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	24.	.57	.21	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.98	4.44	2.73	1.95	1.52	1.24	1.05	.91	.80	.72	.65	.59

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.02	10.04	14.32	17.96	25.00	30.39	33.31	35.31	36.87	38.14	39.21	40.14	40.96	41.70	42.36	42.97
B	.98	1.96	2.92	5.62	9.38	13.41	16.83	23.48	28.69	31.57	33.57	35.12	36.39	37.46	38.40	39.22	39.95	40.62	41.23
C	.92	1.83	2.72	5.24	8.74	12.51	15.71	21.97	26.98	29.83	31.83	33.38	34.65	35.73	36.66	37.48	38.21	38.88	39.49
D	.85	1.69	2.52	4.85	8.10	11.61	14.59	20.45	25.32	28.14	30.14	31.70	32.97	34.04	34.97	35.79	36.53	37.19	37.80
E	.79	1.57	2.34	4.51	7.54	10.82	13.60	19.13	23.88	26.69	28.68	30.24	31.51	32.58	33.51	34.34	35.07	35.74	36.34
F	.72	1.44	2.15	4.13	6.90	9.93	12.48	17.61	22.24	25.04	27.04	28.60	29.87	30.94	31.87	32.69	33.43	34.09	34.70
G	.67	1.33	1.97	3.80	6.36	9.15	11.51	16.29	20.82	23.61	25.61	27.17	28.44	29.51	30.44	31.26	32.00	32.66	33.27
H	.21	.42	.62	1.25	2.49	4.89	7.13	11.93	15.63	17.99	19.67	20.98	22.05	22.95	23.73	24.42	25.04	25.60	26.11
I	.16	.33	.49	.98	1.96	3.86	5.62	9.47	12.62	14.62	16.04	17.14	18.04	18.80	19.47	20.05	20.57	21.04	21.47
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.80	11.49	12.69	13.62	14.38	15.02	15.58	16.08	16.52	16.92	17.28
K	.10	.20	.29	.58	1.16	2.29	3.33	5.68	7.81	9.21	10.21	10.99	11.62	12.16	12.63	13.04	13.41	13.74	14.04
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.61	9.11	9.54	9.91	10.23	10.52	10.78	11.02
M	.05	.10	.14	.29	.57	1.12	1.64	2.84	4.06	4.90	5.50	5.97	6.35	6.67	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.51	2.18	2.72	3.10	3.39	3.63	3.84	4.02	4.17	4.31	4.44	4.55
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.61	1.22	1.82	3.51	5.93	8.73	11.11	15.98	20.42	23.15	25.10	26.62	27.86	28.91	29.82	30.62	31.34	31.99	32.58

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.71	1300	.15	1.46	1900	.21	2.43
0200	.10	.20	0800	.12	.83	1400	.15	1.61	2000	.21	2.63
0300	.10	.30	0900	.12	.95	1500	.15	1.77	2100	.21	2.84
0400	.10	.40	1000	.12	1.07	1600	.15	1.92	2200	.21	3.05
0500	.10	.49	1100	.12	1.19	1700	.15	2.07	2300	.21	3.26
0600	.10	.59	1200	.12	1.31	1800	.15	2.22	2400	.21	3.46
6-HR TOTAL	.59			.72			.91			1.24	

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PR 4.OUT

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.75	0700	.58	5.99	1300	1.28	11.14	1900	.54	26.37
0200	.30	4.05	0800	.62	6.62	1400	1.89	13.04	2000	.50	26.87
0300	.31	4.37	0900	.68	7.30	1500	2.79	15.83	2100	.46	27.34
0400	.33	4.70	1000	.76	8.05	1600	5.93	21.76	2200	.43	27.77
0500	.35	5.05	1100	.85	8.90	1700	2.38	24.15	2300	.41	28.18
0600	.37	5.42	1200	.96	9.86	1800	1.69	25.83	2400	.39	28.56
6-HR TOTAL	1.95			4.44			15.98			2.73	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.25	28.82	0700	.17	30.26	1300	.13	31.26	1900	.11	32.04
0200	.25	29.07	0800	.17	30.43	1400	.13	31.40	2000	.11	32.15
0300	.25	29.32	0900	.17	30.61	1500	.13	31.53	2100	.11	32.26
0400	.25	29.58	1000	.17	30.78	1600	.13	31.67	2200	.11	32.37
0500	.25	29.83	1100	.17	30.96	1700	.13	31.80	2300	.11	32.48
0600	.25	30.08	1200	.17	31.13	1800	.13	31.93	2400	.11	32.58
6-HR TOTAL	1.52			1.05			.80			.65	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 450. SQ. MI., ORIENTATION = 170., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 198.0, Y = 420.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	25.00	5.40	2.92	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
B 25.	0.	23.48	5.21	2.88	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
C 50.	0.	21.97	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
D 100.	0.	20.45	4.87	2.82	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
E 175.	0.	19.13	4.75	2.81	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
F 300.	0.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
G 450.	1.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
H 700.	10.	11.93	3.70	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51
I 1000.	10.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	10.	7.20	2.60	1.69	1.20	.93	.76	.64	.56	.49	.44	.40	.36
K 2150.	10.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	10.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	10.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	10.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	10.	.57	.21	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		13.87	4.07	2.55	1.82	1.41	1.15	.98	.85	.75	.67	.60	.55

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.02	10.04	14.32	17.96	25.00	30.39	33.31	35.31	36.87	38.14	39.21	40.14	40.96	41.70	42.36	42.97
B	.98	1.96	2.92	5.62	9.38	13.41	16.83	23.48	28.69	31.57	33.57	35.12	36.39	37.46	38.40	39.22	39.95	40.62	41.23
C	.92	1.83	2.72	5.24	8.74	12.51	15.71	21.97	26.98	29.83	31.83	33.38	34.65	35.73	36.66	37.48	38.21	38.88	39.49
D	.85	1.69	2.52	4.85	8.10	11.61	14.59	20.45	25.32	28.14	30.14	31.70	32.97	34.04	34.97	35.79	36.53	37.19	37.80
E	.79	1.57	2.34	4.51	7.54	10.82	13.60	19.13	23.88	26.69	28.68	30.24	31.51	32.58	33.51	34.34	35.07	35.74	36.34
F	.72	1.44	2.15	4.13	6.90	9.93	12.48	17.61	22.24	25.04	27.04	28.60	29.87	30.94	31.87	32.69	33.43	34.09	34.70
G	.67	1.33	1.97	3.80	6.36	9.15	11.51	16.29	20.82	23.61	25.61	27.17	28.44	29.51	30.44	31.26	32.00	32.66	33.27
H	.21	.42	.62	1.25	2.49	4.89	7.13	11.93	15.63	17.99	19.67	20.98	22.05	22.95	23.73	24.42	25.04	25.60	26.11
I	.16	.33	.49	.98	1.96	3.86	5.62	9.47	12.62	14.62	16.04	17.14	18.04	18.80	19.47	20.05	20.57	21.04	21.47
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.80	11.49	12.69	13.62	14.38	15.02	15.58	16.08	16.52	16.92	17.28
K	.10	.20	.29	.58	1.16	2.29	3.33	5.68	7.81	9.21	10.21	10.99	11.62	12.16	12.63	13.04	13.41	13.74	14.04
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.61	9.11	9.54	9.91	10.23	10.52	10.78	11.02
M	.05	.10	.14	.29	.57	1.12	1.64	2.84	4.06	4.90	5.50	5.97	6.35	6.67	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.51	2.18	2.72	3.10	3.39	3.63	3.84	4.02	4.17	4.31	4.44	4.55
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

PR 4.OUT

R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.41	.82	1.23	2.39	4.21	6.79	9.08	13.87	17.94	20.48	22.30	23.71	24.87	25.85	26.69	27.44	28.11	28.71	29.27	

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.09	.09	0700	.11	.66	1300	.14	1.36	1900	.19	2.26
0200	.09	.18	0800	.11	.78	1400	.14	1.50	2000	.19	2.45
0300	.09	.28	0900	.11	.89	1500	.14	1.64	2100	.19	2.64
0400	.09	.37	1000	.11	1.00	1600	.14	1.79	2200	.19	2.84
0500	.09	.46	1100	.11	1.11	1700	.14	1.93	2300	.19	3.03
0600	.09	.55	1200	.11	1.22	1800	.14	2.07	2400	.19	3.22
6-HR TOTAL	.55			.67			.85			1.15	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.27	3.49	0700	.53	5.57	1300	1.25	10.36	1900	.50	23.48
0200	.28	3.77	0800	.56	6.14	1400	1.87	12.22	2000	.47	23.94
0300	.29	4.07	0900	.62	6.75	1500	2.58	14.80	2100	.43	24.38
0400	.31	4.37	1000	.69	7.44	1600	4.21	19.01	2200	.40	24.78
0500	.32	4.70	1100	.78	8.22	1700	2.29	21.30	2300	.38	25.16
0600	.34	5.04	1200	.89	9.11	1800	1.68	22.98	2400	.36	25.52
6-HR TOTAL	1.82			4.07			13.87			2.55	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.24	25.76	0700	.16	27.10	1300	.12	28.04	1900	.10	28.76
0200	.24	25.99	0800	.16	27.26	1400	.12	28.16	2000	.10	28.86
0300	.24	26.23	0900	.16	27.42	1500	.12	28.29	2100	.10	28.96
0400	.24	26.47	1000	.16	27.59	1600	.12	28.41	2200	.10	29.06
0500	.24	26.70	1100	.16	27.75	1700	.12	28.54	2300	.10	29.16
0600	.24	26.94	1200	.16	27.91	1800	.12	28.66	2400	.10	29.27
6-HR TOTAL	1.41			.98			.75			.60	

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

X	352.8	330.1	309.2	294.8	305.6	288.8	298.1	296.6	308.6	318.8
Y	439.5	425.4	374.5	331.2	266.6	244.3	211.3	200.4	181.5	185.0
X	322.0	356.2	365.0	366.5	386.2	392.3	377.5	398.6	380.8	385.9
Y	180.9	177.0	179.7	181.0	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5
X	352.8									
Y	441.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
STORM AREA = 450. SQ. MI., ORIENTATION = 170., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 198.0, Y = 420.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	25.00	5.40	2.92	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
B 25.	0.	23.48	5.21	2.88	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
C 50.	0.	21.97	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
D 100.	0.	20.45	4.87	2.82	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
E 175.	0.	19.13	4.75	2.81	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
F 300.	5.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
G 450.	25.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
H 700.	54.	11.93	3.70	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51
I 1000.	64.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	64.	7.20	2.60	1.69	1.20	.93	.76	.64	.56	.49	.44	.40	.36
K 2150.	64.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	64.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	64.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	64.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	64.	.57	.21	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		14.69	4.19	2.59	1.85	1.44	1.18	1.00	.86	.76	.68	.62	.56

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PR 4.OUT

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.02	10.04	14.32	17.96	25.00	30.39	33.31	35.31	36.87	38.14	39.21	40.14	40.96	41.70	42.36	42.97
B	.98	1.96	2.92	5.62	9.38	13.41	16.83	23.48	28.69	31.57	33.57	35.12	36.39	37.46	38.40	39.22	39.95	40.62	41.23
C	.92	1.83	2.72	5.24	8.74	12.51	15.71	21.97	26.98	29.83	31.83	33.38	34.65	35.73	36.66	37.48	38.21	38.88	39.49
D	.85	1.69	2.52	4.85	8.10	11.61	14.59	20.45	25.32	28.14	30.14	31.70	32.97	34.04	34.97	35.79	36.53	37.19	37.80
E	.79	1.57	2.34	4.51	7.54	10.82	13.60	19.13	23.88	26.69	28.68	30.24	31.51	32.58	33.51	34.34	35.07	35.74	36.34
F	.72	1.44	2.15	4.13	6.90	9.93	12.48	17.61	22.24	25.04	27.04	28.60	29.87	30.94	31.87	32.69	33.43	34.09	34.70
G	.67	1.33	1.97	3.80	6.36	9.15	11.51	16.29	20.82	23.61	25.61	27.17	28.44	29.51	30.44	31.26	32.00	32.66	33.27
H	.21	.42	.62	1.25	2.49	4.89	7.13	11.93	15.63	17.99	19.67	20.98	22.05	22.95	23.73	24.42	25.04	25.60	26.11
I	.16	.33	.49	.98	1.96	3.86	5.62	9.47	12.62	14.62	16.04	17.14	18.04	18.80	19.47	20.05	20.57	21.04	21.47
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.80	11.49	12.69	13.62	14.38	15.02	15.58	16.08	16.52	16.92	17.28
K	.10	.20	.29	.58	1.16	2.29	3.33	5.68	7.81	9.21	10.21	10.99	11.62	12.16	12.63	13.04	13.41	13.74	14.04
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.61	9.11	9.54	9.91	10.23	10.52	10.78	11.02
M	.05	.10	.14	.29	.57	1.12	1.64	2.84	4.06	4.90	5.50	5.97	6.35	6.67	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.51	2.18	2.72	3.10	3.39	3.63	3.84	4.02	4.17	4.31	4.44	4.55
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.49	.99	1.47	2.85	4.92	7.57	9.89	14.69	18.88	21.47	23.33	24.77	25.94	26.94	27.80	28.56	29.24	29.86	30.42

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PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.09	.09	0700	.11	.68	1300	.14	1.39	1900	.20	2.30
0200	.09	.19	0800	.11	.79	1400	.14	1.53	2000	.20	2.50
0300	.09	.28	0900	.11	.90	1500	.14	1.68	2100	.20	2.69
0400	.09	.38	1000	.11	1.02	1600	.14	1.82	2200	.20	2.89
0500	.09	.47	1100	.11	1.13	1700	.14	1.96	2300	.20	3.09
0600	.09	.56	1200	.11	1.24	1800	.14	2.11	2400	.20	3.28
6-HR TOTAL	.56			.68			.86			1.18	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.27	3.56	0700	.55	5.68	1300	1.26	10.58	1900	.51	24.53
0200	.29	3.84	0800	.58	6.26	1400	1.87	12.45	2000	.47	25.00
0300	.30	4.14	0900	.64	6.90	1500	2.66	15.11	2100	.44	25.44
0400	.31	4.46	1000	.71	7.61	1600	4.92	20.02	2200	.41	25.86
0500	.33	4.79	1100	.80	8.41	1700	2.32	22.34	2300	.39	26.24
0600	.35	5.14	1200	.91	9.32	1800	1.67	24.02	2400	.37	26.61
6-HR TOTAL	1.85			4.19			14.69			2.59	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.24	26.85	0700	.17	28.22	1300	.13	29.17	1900	.10	29.91
0200	.24	27.09	0800	.17	28.38	1400	.13	29.30	2000	.10	30.01
0300	.24	27.33	0900	.17	28.55	1500	.13	29.43	2100	.10	30.12
0400	.24	27.57	1000	.17	28.71	1600	.13	29.55	2200	.10	30.22
0500	.24	27.81	1100	.17	28.88	1700	.13	29.68	2300	.10	30.32
0600	.24	28.05	1200	.17	29.05	1800	.13	29.81	2400	.10	30.42
6-HR TOTAL	1.44			1.00			.76			.62	

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                                                                    PR 5.OUT
1*****************************************                  *****************************************
*                                       *                  *                                       *
*    PROBABLE MAXIMUM STORM  (HMR52)    *                  *    U.S. ARMY CORPS OF ENGINEERS       *
*            NOVEMBER 1982              *                  *  THE HYDROLOGIC ENGINEERING CENTER    *
*          REVISED  APRIL 91            *                  *          609 SECOND STREET            *
*                                       *                  *       DAVIS, CALIFORNIA 95616         *
*  RUN DATE 06/25/2008    TIME 10:12:27 *                  *  (916) 551-1748 OR (FTS) 460-1748     *
*                                       *                  *                                       *
*****************************************                  *****************************************

                                    H     H  M     M  RRRRRR   5555555   22222
                                    H     H  MM   MM  R     R  5        2     2
                                    H     H  M M M M  R     R  5             2
                                    HHHHHHH  M  M  M  RRRRRR   555555       2
                                    H     H  M     M  R   R          5    2
                                    H     H  M     M  R    R   5     5   2
                                    H     H  M     M  R     R   55555   2222222
1                                 HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                                PAGE  1

        LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

          1           ID    HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
          2           ID    ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
          3           ID    STORM CENTER WITHIN PALUXY RIVER BASIN AT PR5

          4           BN   CPNPP
          5           ID    CALCULATE STORM OVER ENTIRE AREA
          6           BS  .05827
          7           BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
          8           BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
          9           BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   85.17
         10           BX   76.93   85.92   75.56   77.81   82.63    84.8   66.09   56.79   57.55   49.52
         11           BX   51.04    40.8   40.05   54.76   65.82   47.95   62.30   35.02   36.56   63.69
         12           BX   73.84   72.72   84.03  121.92  126.58  133.09  136.39  145.99  138.58  143.21
         13           BX  127.17  137.74  151.01  157.40  164.07  168.68  175.89  172.76  198.29  200.78
         14           BX  217.93  233.49  243.97  277.06  294.55  315.41  331.83  340.98  349.67  353.27
         15           BX  349.84  354.39  367.19  367.42  386.16  392.28  377.46  398.65  380.84  385.89
         16           BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
         17           BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
         18           BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
         19           BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  547.94
         20           BY  530.64   505.2  501.21  486.11  484.73  480.07  460.51  459.91  445.42  431.26
         21           BY  423.96  416.89  406.78  378.07  347.05  304.18  290.43  242.80  238.08  238.71
         22           BY  233.34  225.26  226.56  215.42   225.3   225.3  213.74  213.23  195.37   187.2
         23           BY   150.2  138.83  120.25  124.31  115.41   94.86   88.63   82.92   85.08   92.18
         24           BY   92.91  104.32  104.64  101.45  114.21  121.11  122.14  112.91  115.82  123.27
         25           BY  135.16  137.78  172.22  181.89  198.56  228.19  249.82  273.83  307.02  320.85
         26           BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
         27           HO     215
         28           HP      10    29.7    35.3    40.0    45.0    48.0
         29           HP     200    22.2    26.8    32.0    36.0    39.6
         30           HP    1000    15.9    20.7    25.8    30.0    33.4
         31           HP    5000     9.3    13.0    17.8    22.0    25.0
         32           HP   10000     7.1    10.3    14.4    18.5    21.0
         33           HP   20000     5.1     8.3    11.5    15.0    17.8
         34           SA       0       0       3
         35           SC     248     427
         36           ST      60   0.308       0       1
         37           PU      ON

         38           BN  BASIN4
         39           BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
         40           BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
         41           BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   97.35
         42           BX   81.49   85.17   76.93   85.92   75.56   77.81   82.63    84.8   70.55   66.09
         43           BX   56.79   57.55   49.52   51.04    40.8   40.05   54.76   61.58   65.82   47.95
         44           BX   62.30   35.02   36.56   46.93   55.09   63.69   73.84   72.72   84.03   92.24
         45           BX   97.83  121.92  126.58  133.09  136.39  145.99  138.58  143.21  127.17  137.74
         46           BX  139.10  151.01  157.40  164.07  200.07  219.86  230.63  240.75  246.73  251.89
         47           BX  260.06  275.37  281.37  281.37  285.03   291.7  296.69  298.06  288.52  305.69
         48           BX  294.79  330.09
         49           BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
         50           BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
         51           BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  567.83
         52           BY  554.59  547.94  530.64   505.2  501.21  486.11  484.73  480.07  471.39  460.51
         53           BY  459.91  445.42  431.26  423.96  416.89  406.78  378.07  377.45  347.05  304.18
1                                 HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                                PAGE  2

        LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

         54           BY  290.43  242.80  238.08  239.96  236.18  238.71  233.34  225.26  226.56  224.02
         55           BY  224.87  215.42   225.3   225.3  213.74  213.23  195.37   187.2   150.2  138.83
         56           BY   127.7  120.25  124.31  115.41  125.34  135.17  153.31  156.62  153.56  154.76
         57           BY  154.76  160.46  167.45  177.77  188.09  192.59  200.58  211.24     244  264.84
         58           BY   331.2  425.42

         59           BN  BASIN3
         60           ID    SUBBASIN3
         61           BX  296.69  291.69  285.04  281.37  281.37  275.37  260.06  251.89  246.63  240.75
         62           BX  230.63  225.36  219.86  200.07  164.07  168.68  175.89  172.76  198.29  200.78
         63           BX  217.93  233.49  243.97  247.19  253.98  261.76  272.19  277.06  287.20  290.72
         64           BX  294.55  306.52  308.51  303.88  308.46  307.93  308.87
         65           BY  200.58  192.59  188.09  177.77  167.45  160.46  154.76  154.76  153.56  156.62
         66           BY  153.31  145.58  135.17  125.34  115.41   94.86   88.63   82.92   85.08   92.18
         67           BY   92.91  104.32  104.64  101.71  106.79  105.33  107.43  101.45  107.36  107.36
         68           BY  114.21  114.52  116.39  128.54  141.75  169.52  181.13

         69           BN  BASIN2
         70           ID    SUBBASIN2
         71           BX  367.42  364.98  356.16  322.02  318.79  308.87  307.93  308.46  303.88  308.51
         72           BX  315.41  331.83  340.98  349.67  353.27  349.84  354.39  357.02  364.94  364.65
         73           BX  367.19
                                                                    Page 1
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PR 5.OUT

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74          BY  181.89  179.72     177  180.58  183.71  181.13  169.52  141.75  128.54  116.39
75          BY  121.11  122.14  122.91  115.82  123.27  135.16  137.78     149  163.23  170.54
76          BY  172.22

77          BN  BASIN1
78          ID    SUBBASIN1
79          BX  352.79  330.08  309.24  294.79  305.63  288.78  298.06  296.58  308.64   318.8
80          BX  322.02  356.16  364.98  366.54  386.16  392.28  377.46  398.65  380.84  385.89
81          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
82          BX  352.83
83          BY  439.49  425.42  374.54   331.2  266.57  244.31  211.25  200.39  181.51  185.02
84          BY  180.91     177  179.72  181.01  198.56  228.19  249.82  273.83  307.02  320.85
85          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
86          BY  441.22

87          ZZ
1*****************************************                    *****************************************
*                                         *                    *                                       *
*    PROBABLE MAXIMUM STORM  (HMR52)      *                    *    U.S. ARMY CORPS OF ENGINEERS       *
*            NOVEMBER 1982                *                    *  THE HYDROLOGIC ENGINEERING CENTER    *
*          REVISED  APRIL 91              *                    *          609 SECOND STREET            *
*                                         *                    *       DAVIS, CALIFORNIA 95616         *
*  RUN DATE 06/25/2008    TIME 10:12:27   *                    *  (916) 551-1748 OR (FTS) 460-1748     *
*                                         *                    *                                       *
*****************************************                    *****************************************

                    HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
                    ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
                    STORM CENTER WITHIN PALUXY RIVER BASIN AT PR5
                    CALCULATE STORM OVER ENTIRE AREA

                  PMP DEPTHS FROM HMR 51

     AREA                          DURATION
   (SQ. MI.)        6-HR     12-HR     24-HR     48-HR     72-HR
      10.          29.70     35.30     40.00     45.00     48.00
     200.          22.20     26.80     32.00     36.00     39.60
    1000.          15.90     20.70     25.80     30.00     33.40
    5000.           9.30     13.00     17.80     22.00     25.00
   10000.           7.10     10.30     14.40     18.50     21.00
   20000.           5.10      8.30     11.50     15.00     17.80

STORM AREA                                   PMP DEPTHS FOR 6-HOUR INCREMENTS
     10.          29.67     5.40      2.99      2.08      1.59      1.29      1.09      .94       .83       .74       .67       .61
     25.          27.92     5.22      2.95      2.06      1.59      1.29      1.09      .94       .83       .74       .67       .61
     50.          26.45     5.09      2.91      2.05      1.58      1.29      1.09      .94       .83       .74       .67       .61
    100.          24.29     4.91      2.86      2.02      1.57      1.28      1.08      .94       .82       .74       .67       .61
    175.          22.55     4.75      2.81      2.00      1.56      1.28      1.08      .94       .83       .74       .67       .61
    300.          20.55     4.76      2.81      2.00      1.55      1.27      1.08      .93       .82       .74       .67       .61
    450.          18.97     4.79      2.82      2.00      1.56      1.27      1.08      .93       .82       .74       .67       .61
    700.          17.24     4.83      2.83      2.00      1.56      1.27      1.07      .93       .82       .73       .66       .61
   1000.          15.84     4.88      2.83      2.01      1.55      1.27      1.07      .93       .82       .73       .66       .60
   1500.          14.17     4.63      2.76      1.97      1.53      1.26      1.06      .92       .81       .73       .66       .60
   2150.          12.69     4.41      2.69      1.94      1.52      1.25      1.06      .92       .81       .73       .66       .60
   3000.          11.31     4.23      2.62      1.91      1.50      1.23      1.05      .91       .81       .72       .66       .60
   4500.           9.64     4.00      2.54      1.87      1.48      1.22      1.04      .91       .81       .72       .66       .60
   6500.           8.38     3.73      2.41      1.78      1.42      1.18      1.00      .88       .78       .70       .63       .58
  10000.           7.02     3.38      2.22      1.66      1.33      1.10       .95      .83       .74       .66       .60       .55
  15000.           5.93     3.11      2.07      1.55      1.24      1.04       .89      .78       .69       .62       .57       .52
  20000.           5.15     2.92      1.96      1.48      1.19       .99       .85      .75       .66       .60       .54       .50
1

                BOUNDARY COORDINATES FOR    CPNPP

X    352.8    348.3    349.1    345.0    347.4    339.3    323.6    325.8    317.6    314.8
Y    441.5    481.9    512.5    515.5    523.6    523.4    550.2    562.8    565.8    571.4

X    317.4    315.6    306.5    302.1    295.4    295.4    289.7    284.2    279.7    267.3
Y    574.4    579.2    582.4    600.0    600.5    612.0    617.3    640.0    644.0    640.7

X    258.7    236.4    227.0    214.0    161.3    123.5    111.3     96.2    102.6     85.2
Y    651.3    648.7    677.8    665.0    685.3    676.9    664.0    593.1    588.7    547.9

X     76.9     85.9     75.6     77.8     82.6     84.8     66.1     56.8     57.5     49.5
Y    530.6    505.2    501.2    486.1    484.7    480.1    460.5    459.9    445.4    431.3

X     51.0     40.8     40.0     54.8     65.8     48.0     62.3     35.0     36.6     63.7
Y    424.0    416.9    406.8    378.1    347.0    304.2    290.4    242.8    238.1    238.7

X     73.8     72.7     84.0    121.9    126.6    133.1    136.4    146.0    138.6    143.2
Y    233.3    225.3    226.6    215.4    225.3    225.3    213.7    213.2    195.4    187.2

X    127.2    137.7    151.0    157.4    164.1    168.7    175.9    172.8    198.3    200.8
Y    150.2    138.8    120.3    124.3    115.4     94.9     88.6     82.9     85.1     92.2

X    217.9    233.5    244.0    277.1    294.5    315.4    331.8    341.0    349.7    353.3
Y     92.9    104.3    104.6    101.4    114.2    121.1    122.1    112.9    115.8    123.3

X    349.8    354.4    367.2    367.4    386.2    392.3    377.5    398.6    380.8    385.9
Y    135.2    137.8    172.2    181.9    198.6    228.2    249.8    273.8    307.0    320.9

X    375.5    379.9    370.4    371.4    365.4    356.5    349.5    354.0    353.1    356.4
Y    358.8    370.7    385.5    393.1    396.8    395.5    405.4    411.9    420.9    429.5

SCALE =      .0583 MILES PER COORDINATE UNIT
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PR 5.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

1

VARYING STORM AREA SIZE AND FIXED ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
10.	178.	8.84	1.63	.90	.63	.48	.39	.33	.28	.25	.22	.20	.18	11.37
25.	178.	11.58	2.41	1.39	.98	.75	.61	.51	.44	.39	.35	.32	.29	15.38
50.	178.	13.63	3.00	1.76	1.24	.96	.78	.66	.57	.50	.45	.41	.37	18.38
100.	178.	15.26	3.50	2.10	1.49	1.16	.94	.80	.69	.61	.54	.49	.45	20.86
175.	178.	16.50	3.86	2.36	1.68	1.31	1.07	.91	.79	.69	.62	.56	.51	22.71
300.	178.	17.34	4.27	2.59	1.85	1.43	1.17	.99	.86	.76	.68	.61	.56	24.20
450.	178.	17.74	4.57	2.73	1.94	1.50	1.23	1.04	.90	.80	.71	.64	.59	25.03
700.	178.	17.55	4.81	2.81	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60	25.18
1000.	178.	17.17	4.98	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.60	24.99
1500.	178.	16.62	4.81	2.79	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60	24.22
2150.	178.	16.07	4.65	2.73	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60	23.44
3000.	178.	15.50	4.53	2.67	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60	22.70
4500.	178.	14.62	4.35	2.60	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60	21.56
6500.	178.	13.98	4.10	2.47	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58	20.56
10000.	178.	13.08	3.78	2.29	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55	19.15
15000.	178.	12.22	3.54	2.14	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52	17.89
20000.	178.	11.39	3.36	2.03	1.48	1.19	.99	.85	.75	.66	.60	.54	.50	16.78

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
700.	140.	16.13	4.51	2.65	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	23.30
700.	150.	16.54	4.58	2.69	1.90	1.47	1.20	1.02	.88	.78	.70	.63	.57	23.81
700.	160.	17.03	4.68	2.74	1.94	1.50	1.23	1.04	.90	.79	.71	.64	.59	24.45
700.	170.	17.41	4.77	2.79	1.97	1.53	1.25	1.06	.92	.81	.72	.65	.60	24.97
700.	180.	17.55	4.81	2.81	1.99	1.54	1.26	1.07	.92	.82	.73	.66	.60	25.18
700.	190.	17.40	4.80	2.81	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60	25.00
700.	200.	17.08	4.74	2.79	1.97	1.53	1.25	1.06	.91	.81	.72	.65	.60	24.61
700.	210.	16.63	4.66	2.75	1.94	1.51	1.23	1.04	.90	.80	.71	.64	.59	24.04
700.	220.	16.17	4.57	2.70	1.91	1.48	1.21	1.02	.89	.78	.70	.63	.58	23.44
700.	230.	15.72	4.49	2.65	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.86
700.	240.	15.36	4.41	2.62	1.85	1.43	1.17	.99	.86	.76	.68	.61	.56	22.39
700.	250.	15.11	4.36	2.59	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	22.06
700.	260.	14.89	4.32	2.56	1.81	1.41	1.15	.97	.84	.74	.66	.60	.55	21.77
700.	270.	14.73	4.27	2.54	1.79	1.39	1.14	.96	.83	.73	.66	.59	.54	21.53
700.	280.	14.70	4.25	2.52	1.79	1.38	1.13	.96	.83	.73	.65	.59	.54	21.48
700.	290.	14.92	4.30	2.55	1.80	1.40	1.14	.97	.84	.74	.66	.60	.54	21.77
700.	300.	15.28	4.36	2.58	1.83	1.42	1.16	.98	.85	.75	.67	.60	.55	22.22
700.	310.	15.68	4.44	2.62	1.85	1.44	1.17	.99	.86	.76	.68	.61	.56	22.74
700.	175.	17.53	4.81	2.81	1.99	1.54	1.26	1.06	.92	.81	.73	.66	.60	25.15
700.	185.	17.48	4.81	2.81	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60	25.10

1

PROBABLE MAXIMUM STORM FOR CPNPP
STORM AREA = 700. SQ. MI., ORIENTATION = 180., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 248.0, Y = 427.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	50.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	100.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	175.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	279.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	376.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	474.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	504.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	509.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	509.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	509.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	509.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	509.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	509.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.55	4.81	2.81	1.99	1.54	1.26	1.07	.92	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02

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PR 5.OUT

H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.65	1.30	1.94	3.73	6.32	9.42	12.09	17.55	22.36	25.18	27.17	28.71	29.98	31.04	31.97	32.78	33.51	34.17	34.77

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.49	1900	.21	2.47
0200	.10	.20	0800	.12	.85	1400	.15	1.64	2000	.21	2.68
0300	.10	.30	0900	.12	.97	1500	.15	1.79	2100	.21	2.89
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.10
0500	.10	.50	1100	.12	1.21	1700	.15	2.10	2300	.21	3.31
0600	.10	.60	1200	.12	1.33	1800	.15	2.26	2400	.21	3.52
6-HR TOTAL	.60			.73			.92			1.26	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.81	0700	.61	6.12	1300	1.43	11.75	1900	.57	28.44
0200	.31	4.12	0800	.67	6.79	1400	2.13	13.88	2000	.52	28.95
0300	.32	4.44	0900	.74	7.52	1500	3.10	16.98	2100	.48	29.43
0400	.34	4.78	1000	.82	8.35	1600	6.32	23.30	2200	.44	29.87
0500	.36	5.13	1100	.93	9.28	1700	2.67	25.97	2300	.42	30.29
0600	.38	5.51	1200	1.05	10.32	1800	1.90	27.87	2400	.40	30.69
6-HR TOTAL	1.99			4.81			17.55			2.81	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.94	0700	.18	32.41	1300	.14	33.43	1900	.11	34.22
0200	.26	31.20	0800	.18	32.59	1400	.14	33.57	2000	.11	34.33
0300	.26	31.46	0900	.18	32.76	1500	.14	33.71	2100	.11	34.44
0400	.26	31.72	1000	.18	32.94	1600	.14	33.84	2200	.11	34.55
0500	.26	31.97	1100	.18	33.12	1700	.14	33.98	2300	.11	34.66
0600	.26	32.23	1200	.18	33.30	1800	.14	34.11	2400	.11	34.77
6-HR TOTAL	1.54			1.07			.82			.66	

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BOUNDARY COORDINATES FOR BASIN4

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	97.3
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
STORM AREA = 700. SQ. MI., ORIENTATION = 180., PREFERRED ORIENTATION = 215.
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PR 5.OUT

STORM CENTER COORDINATES, X = 248.0, Y = 427.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	50.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	98.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	166.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	252.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	309.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	375.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	405.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	411.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	411.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	411.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	411.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	411.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	411.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.81	4.83	2.81	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60

1

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.66	1.32	1.96	3.78	6.41	9.56	12.28	17.81	22.65	25.46	27.45	28.99	30.25	31.32	32.24	33.05	33.78	34.44	35.04

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.46
0200	.10	.20	0800	.12	.84	1400	.15	1.64	2000	.21	2.67
0300	.10	.30	0900	.12	.97	1500	.15	1.79	2100	.21	2.88
0400	.10	.40	1000	.12	1.09	1600	.15	1.94	2200	.21	3.09
0500	.10	.50	1100	.12	1.21	1700	.15	2.10	2300	.21	3.30
0600	.10	.60	1200	.12	1.33	1800	.15	2.25	2400	.21	3.51
6-HR TOTAL	.60			.73			.92			1.26	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.81	0700	.61	6.11	1300	1.45	11.78	1900	.57	28.71
0200	.31	4.11	0800	.67	6.78	1400	2.16	13.94	2000	.52	29.23
0300	.32	4.43	0900	.74	7.52	1500	3.15	17.09	2100	.48	29.71
0400	.34	4.77	1000	.83	8.35	1600	6.41	23.50	2200	.44	30.15
0500	.36	5.12	1100	.93	9.28	1700	2.72	26.22	2300	.42	30.56
0600	.38	5.50	1200	1.05	10.33	1800	1.93	28.15	2400	.40	30.96
6-HR TOTAL	1.99			4.83			17.81			2.81	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	31.22	0700	.18	32.68	1300	.14	33.70	1900	.11	34.49
0200	.26	31.47	0800	.18	32.86	1400	.14	33.84	2000	.11	34.60
0300	.26	31.73	0900	.18	33.03	1500	.14	33.97	2100	.11	34.71
0400	.26	31.99	1000	.18	33.21	1600	.14	34.11	2200	.11	34.82
0500	.26	32.25	1100	.18	33.39	1700	.14	34.25	2300	.11	34.93
0600	.26	32.50	1200	.18	33.57	1800	.14	34.38	2400	.11	35.04
6-HR TOTAL	1.54			1.07			.81			.66	

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PR 5.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3
STORM AREA = 700. SQ. MI., ORIENTATION = 180., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 248.0, Y = 427.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	0.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	0.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	17.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	24.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	24.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	24.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	24.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	24.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	24.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	24.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	24.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.95	4.70	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.60	1.19	1.77	3.40	5.76	8.56	10.97	15.95	20.64	23.46	25.46	27.02	28.29	29.37	30.30	31.12	31.85	32.52	33.12

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

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PR 5.OUT

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.61	6.15	1300	1.33	11.57	1900	.56	26.75
0200	.31	4.15	0800	.66	6.81	1400	1.93	13.50	2000	.52	27.27
0300	.32	4.47	0900	.72	7.54	1500	2.80	16.30	2100	.48	27.75
0400	.34	4.81	1000	.80	8.34	1600	5.76	22.06	2200	.44	28.19
0500	.36	5.17	1100	.90	9.24	1700	2.41	24.47	2300	.42	28.61
0600	.38	5.55	1200	1.01	10.25	1800	1.72	26.19	2400	.40	29.01
6-HR TOTAL	2.00			4.70			15.95			2.82	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	29.27	0700	.18	30.74	1300	.14	31.77	1900	.11	32.57
0200	.26	29.53	0800	.18	30.92	1400	.14	31.91	2000	.11	32.68
0300	.26	29.78	0900	.18	31.10	1500	.14	32.05	2100	.11	32.79
0400	.26	30.04	1000	.18	31.28	1600	.14	32.18	2200	.11	32.90
0500	.26	30.30	1100	.18	31.46	1700	.14	32.32	2300	.11	33.01
0600	.26	30.56	1200	.18	31.64	1800	.14	32.46	2400	.11	33.12
6-HR TOTAL	1.56			1.07			.82			.66	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 700. SQ. MI., ORIENTATION = 180., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 248.0, Y = 427.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	0.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	0.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	2.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	10.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	10.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	10.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	10.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	10.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	10.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	10.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	10.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.29	4.65	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

PR 5.OUT

R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.57	1.13	1.69	3.25	5.51	8.19	10.50	15.29	19.93	22.74	24.75	26.30	27.57	28.65	29.58	30.40	31.13	31.80	32.41	

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.60	6.15	1300	1.29	11.48	1900	.56	26.04
0200	.31	4.15	0800	.66	6.81	1400	1.85	13.33	2000	.51	26.56
0300	.32	4.47	0900	.72	7.53	1500	2.69	16.02	2100	.48	27.03
0400	.34	4.81	1000	.80	8.32	1600	5.51	21.52	2200	.44	27.48
0500	.36	5.17	1100	.89	9.21	1700	2.30	23.82	2300	.42	27.89
0600	.38	5.55	1200	.99	10.19	1800	1.66	25.48	2400	.40	28.29
6-HR TOTAL	2.00			4.65			15.29			2.81	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	28.55	0700	.18	30.03	1300	.14	31.06	1900	.11	31.85
0200	.26	28.81	0800	.18	30.20	1400	.14	31.19	2000	.11	31.96
0300	.26	29.07	0900	.18	30.38	1500	.14	31.33	2100	.11	32.07
0400	.26	29.33	1000	.18	30.56	1600	.14	31.47	2200	.11	32.18
0500	.26	29.59	1100	.18	30.74	1700	.14	31.60	2300	.11	32.29
0600	.26	29.85	1200	.18	30.92	1800	.14	31.74	2400	.11	32.41
6-HR TOTAL	1.56			1.07			.82			.66	

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

X	352.8	330.1	309.2	294.8	305.6	288.8	298.1	296.6	308.6	318.8
Y	439.5	425.4	374.5	331.2	266.6	244.3	211.3	200.4	181.5	185.0
X	322.0	356.2	365.0	366.5	386.2	392.3	377.5	398.6	380.8	385.9
Y	180.9	177.0	179.7	181.0	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5
X	352.8									
Y	441.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
STORM AREA = 700. SQ. MI., ORIENTATION = 180., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 248.0, Y = 427.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	7.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	28.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	48.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	64.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	64.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	64.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	64.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	64.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	64.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	64.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	64.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.71	4.76	2.82	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61

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Page 8

PR 5.OUT

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.63	1.25	1.86	3.57	6.05	8.99	11.52	16.71	21.47	24.29	26.29	27.85	29.12	30.19	31.12	31.94	32.67	33.34	33.94

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PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.61	6.16	1300	1.37	11.67	1900	.56	27.58
0200	.31	4.15	0800	.66	6.82	1400	2.02	13.69	2000	.52	28.09
0300	.32	4.47	0900	.73	7.55	1500	2.94	16.63	2100	.48	28.57
0400	.34	4.81	1000	.81	8.36	1600	6.05	22.68	2200	.44	29.02
0500	.36	5.17	1100	.91	9.28	1700	2.53	25.21	2300	.42	29.43
0600	.38	5.54	1200	1.03	10.30	1800	1.80	27.01	2400	.40	29.83
6-HR TOTAL	2.00			4.76			16.71			2.82	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.09	0700	.18	31.57	1300	.14	32.60	1900	.11	33.39
0200	.26	30.35	0800	.18	31.74	1400	.14	32.73	2000	.11	33.50
0300	.26	30.61	0900	.18	31.92	1500	.14	32.87	2100	.11	33.61
0400	.26	30.87	1000	.18	32.10	1600	.14	33.01	2200	.11	33.72
0500	.26	31.13	1100	.18	32.28	1700	.14	33.14	2300	.11	33.83
0600	.26	31.39	1200	.18	32.46	1800	.14	33.28	2400	.11	33.94
6-HR TOTAL	1.55			1.07			.82			.66	

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                                                                 PR 6.OUT

1*****************************************                                                  ***************************************
 *                                       *                                                  *                                     *
 *   PROBABLE MAXIMUM STORM  (HMR52)     *                                                  *   U.S. ARMY CORPS OF ENGINEERS      *
 *           NOVEMBER 1982               *                                                  * THE HYDROLOGIC ENGINEERING CENTER   *
 *          REVISED  APRIL 91            *                                                  *         609 SECOND STREET           *
 *                                       *                                                  *       DAVIS, CALIFORNIA 95616       *
 *  RUN DATE 06/25/2008    TIME 10:12:54 *                                                  *  (916) 551-1748 OR (FTS) 460-1748   *
 *                                       *                                                  *                                     *
 *****************************************                                                  ***************************************


                                             H     H  M     M  RRRRRR   5555555   22222
                                             H     H  MM   MM  R     R  5        2     2
                                             H     H  M M M M  R     R  5              2
                                             HHHHHHH  M  M  M  RRRRRR   555555        2
                                             H     H  M     M  R  R           5     2
                                             H     H  M     M  R   R    5     5   2
                                             H     H  M     M  R    R   55555   2222222
1                                      HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                             PAGE  1

           LINE           ID......1.......2.......3.......4.......5.......6.......7.......8.......9......10

              1           ID   HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
              2           ID   ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
              3           ID   STORM CENTER WITHIN PALUXY RIVER BASIN AT PR6

              4           BN  CPNPP
              5           ID   CALCULATE STORM OVER ENTIRE AREA
              6           BS .05827
              7           BX 352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
              8           BX 317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
              9           BX 258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   85.17
             10           BX  76.93   85.92   75.56   77.81   82.63    84.8   66.09   56.79   57.55   49.52
             11           BX  51.04    40.8   40.05   54.76   65.82   47.95   62.30   35.02   36.56   63.69
             12           BX  73.84   72.72   84.03  121.92  126.58  133.09  136.39  145.99  138.58  143.21
             13           BX 127.17  137.74  151.01  157.40  164.07  168.68  175.89  172.76  198.29  200.78
             14           BX 217.93  233.49  243.97  277.06  294.55  315.41  331.83  340.98  349.67  353.27
             15           BX 349.84  354.39  367.19  367.42  386.16  392.28  377.46  398.65  380.84  385.89
             16           BX 375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
             17           BY 441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
             18           BY 574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
             19           BY 651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  547.94
             20           BY 530.64   505.2  501.21  486.11  484.73  480.07  460.51  459.91  445.42  431.26
             21           BY 423.96  416.89  406.78  378.07  347.05  304.18  290.43  242.80  238.08  238.71
             22           BY 233.34  225.26  226.56  215.42   225.3   225.3  213.74  213.23  195.37   187.2
             23           BY  150.2  138.83  120.25  124.31  115.41   94.86   88.63   82.92   85.08   92.18
             24           BY  92.91  104.32  104.64  101.45  114.21  121.11  122.14  112.91  115.82  123.27
             25           BY 135.16  137.78  172.22  181.89  198.56  228.19  249.82  273.83  307.02  320.85
             26           BY 358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
             27           HO    215
             28           HP     10    29.7    35.3    40.0    45.0    48.0
             29           HP    200    22.2    26.8    32.0    36.0    39.6
             30           HP   1000    15.9    20.7    25.8    30.0    33.4
             31           HP   5000     9.3    13.0    17.8    22.0    25.0
             32           HP  10000     7.1    10.3    14.4    18.5    21.0
             33           HP  20000     5.1     8.3    11.5    15.0    17.8
             34           SA      0       0       3
             35           SC    297     433
             36           ST     60   0.308       0       1
             37           PU     ON

             38           BN BASIN4
             39           BX 352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
             40           BX 317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
             41           BX 258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   97.35
             42           BX  81.49   85.17   76.93   85.92   75.56   77.81   82.63    84.8   70.55   66.09
             43           BX  56.79   57.55   49.52   51.04    40.8   40.05   54.76   61.58   65.82   47.95
             44           BX  62.30   35.02   36.56   46.93   55.09   63.69  73.84    72.72   84.03   92.24
             45           BX  97.83  121.92  126.58  133.09  136.39  145.99  138.58  143.21  127.17  137.74
             46           BX 139.10  151.01  157.40  164.07  200.07  219.86  230.63  240.75  246.73  251.89
             47           BX 260.06  275.37  281.37  281.37  285.03   291.7  296.69  298.06  288.52  305.69
             48           BX 294.79  330.09
             49           BY 441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
             50           BY 574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
             51           BY 651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  567.83
             52           BY 554.59  547.94  530.64   505.2  501.21  486.11  484.73  480.07  471.39  460.51
             53           BY 459.91  445.42  431.26  423.96  416.89  406.78  378.07  377.45  347.05  304.18
1                                      HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                             PAGE  2

           LINE           ID......1.......2.......3.......4.......5.......6.......7.......8.......9......10

             54           BY 290.43  242.80  238.08  239.96  236.18  238.71  233.34  225.26  226.56  224.02
             55           BY 224.87  215.42   225.3   225.3  213.74  213.23  195.37   187.2   150.2  138.83
             56           BY  127.7  120.25  124.31  115.41  125.34  135.17  153.31  156.62  153.56  154.76
             57           BY 154.76  160.46  167.45  177.77  188.09  192.59  200.58  211.24     244  264.84
             58           BY  331.2  425.42

             59           BN BASIN3
             60           ID   SUBBASIN3
             61           BX 296.69  291.69  285.04  281.37  281.37  275.37  260.06  251.89  246.63  240.75
             62           BX 230.63  225.36  219.86  200.07  164.07  168.68  175.89  172.76  198.29  200.78
             63           BX 217.93  233.49  243.97  247.19  253.98  261.76  272.19  277.06  287.20  290.72
             64           BX 294.55  306.52  308.51  303.88  308.46  307.93  308.87
             65           BY 200.58  192.59  188.09  177.77  167.45  160.46  154.76  154.76  153.56  156.62
             66           BY 153.31  145.58  135.17  125.34  115.41   94.86   88.63   82.92   85.08   92.18
             67           BY  92.91  104.32  104.64  101.71  106.79  105.33  107.43  101.45  107.36  107.36
             68           BY 114.21  114.52  116.39  128.54  141.75  169.52  181.13

             69           BN BASIN2
             70           ID   SUBBASIN2
             71           BX 367.42  364.98  356.16  322.02  318.79  308.87  307.93  308.46  303.88  308.51
             72           BX 315.41  331.83  340.98  349.67  353.27  349.84  354.39  357.02  364.94  364.65
             73           BX 367.19
                                                                  Page 1
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74          BY  181.89  179.72     177  180.58  183.71  181.13  169.52  141.75  128.54  116.39
75          BY  121.11  122.14  122.91  115.82  123.27  135.16  137.78     149  163.23  170.54
76          BY  172.22

77          BN  BASIN1
78          ID    SUBBASIN1
79          BX  352.79  330.08  309.24  294.79  305.63  288.78  298.06  296.58  308.64   318.8
80          BX  322.02  356.16  364.98  366.54  386.16  392.28  377.46  398.65  380.84  385.89
81          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
82          BX  352.83
83          BY  439.49  425.42  374.54   331.2  266.57  244.31  211.25  200.39  181.51  185.02
84          BY  180.91     177  179.72  181.01  198.56  228.19  249.82  273.83  307.02  320.85
85          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
86          BY  441.22

87          ZZ
1*****************************************                    *****************************************
*                                         *                    *                                       *
*    PROBABLE MAXIMUM STORM  (HMR52)      *                    *    U.S. ARMY CORPS OF ENGINEERS       *
*            NOVEMBER 1982                *                    *  THE HYDROLOGIC ENGINEERING CENTER    *
*          REVISED  APRIL 91              *                    *          609 SECOND STREET            *
*                                         *                    *       DAVIS, CALIFORNIA 95616         *
*  RUN DATE 06/25/2008    TIME 10:12:54   *                    *  (916) 551-1748 OR (FTS) 460-1748     *
*                                         *                    *                                       *
*****************************************                    *****************************************
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
STORM CENTER WITHIN PALUXY RIVER BASIN AT PR6
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	DURATION 6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
200.	22.20	26.80	32.00	36.00	39.60
1000.	15.90	20.70	25.80	30.00	33.40
5000.	9.30	13.00	17.80	22.00	25.00
10000.	7.10	10.30	14.40	18.50	21.00
20000.	5.10	8.30	11.50	15.00	17.80

STORM AREA	PMP DEPTHS FOR 6-HOUR INCREMENTS											
10.	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61
25.	27.92	5.22	2.95	2.06	1.59	1.29	1.09	.94	.83	.74	.67	.61
50.	26.45	5.09	2.91	2.05	1.58	1.29	1.09	.94	.83	.74	.67	.61
100.	24.29	4.91	2.86	2.02	1.57	1.28	1.08	.94	.82	.74	.67	.61
175.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61
300.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
450.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61
700.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
1000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
1500.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60
2150.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60
3000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60
4500.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60
6500.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58
10000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55
15000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52
20000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50

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BOUNDARY COORDINATES FOR CPNPP

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	85.2
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	547.9
X	76.9	85.9	75.6	77.8	82.6	84.8	66.1	56.8	57.5	49.5
Y	530.6	505.2	501.2	486.1	484.7	480.1	460.5	459.9	445.4	431.3
X	51.0	40.8	40.0	54.8	65.8	48.0	62.3	35.0	36.6	63.7
Y	424.0	416.9	406.8	378.1	347.0	304.2	290.4	242.8	238.1	238.7
X	73.8	72.7	84.0	121.9	126.6	133.1	136.4	146.0	138.6	143.2
Y	233.3	225.3	226.6	215.4	225.3	225.3	213.7	213.2	195.4	187.2
X	127.2	137.7	151.0	157.4	164.1	168.7	175.9	172.8	198.3	200.8
Y	150.2	138.8	120.3	124.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	277.1	294.5	315.4	331.8	341.0	349.7	353.3
Y	92.9	104.3	104.6	101.4	114.2	121.1	122.1	112.9	115.8	123.3
X	349.8	354.4	367.2	367.4	386.2	392.3	377.5	398.6	380.8	385.9
Y	135.2	137.8	172.2	181.9	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5

SCALE = .0583 MILES PER COORDINATE UNIT

PR 6.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

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VARYING STORM AREA SIZE AND FIXED ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
10.	190.	7.89	1.45	.81	.56	.43	.35	.29	.25	.22	.20	.18	.16	10.15
25.	190.	10.44	2.19	1.27	.89	.68	.55	.47	.40	.36	.32	.29	.26	13.89
50.	190.	12.27	2.73	1.61	1.13	.88	.71	.60	.52	.46	.41	.37	.34	16.61
100.	190.	13.69	3.20	1.93	1.37	1.06	.86	.73	.63	.56	.50	.45	.41	18.82
175.	190.	14.80	3.54	2.17	1.55	1.20	.99	.83	.72	.64	.57	.52	.47	20.51
300.	190.	15.66	3.97	2.43	1.73	1.34	1.10	.93	.81	.71	.64	.58	.53	22.06
450.	190.	16.23	4.31	2.59	1.84	1.43	1.17	.99	.86	.76	.68	.61	.56	23.13
700.	190.	16.37	4.63	2.73	1.94	1.50	1.23	1.04	.90	.79	.71	.64	.59	23.73
1000.	190.	16.27	4.87	2.82	1.98	1.54	1.25	1.06	.92	.81	.72	.65	.60	23.96
1500.	190.	15.86	4.76	2.78	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60	23.40
2150.	190.	15.34	4.60	2.72	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60	22.65
3000.	190.	14.78	4.48	2.66	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60	21.93
4500.	190.	13.95	4.30	2.59	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60	20.84
6500.	190.	13.35	4.06	2.46	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58	19.87
10000.	190.	12.49	3.74	2.28	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55	18.51
15000.	190.	11.68	3.50	2.13	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52	17.32
20000.	190.	10.90	3.32	2.02	1.48	1.19	.99	.85	.75	.66	.60	.54	.50	16.25

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
1000.	140.	14.80	4.50	2.61	1.84	1.43	1.16	.98	.85	.75	.67	.61	.55	21.91
1000.	150.	15.08	4.55	2.64	1.86	1.44	1.18	.99	.86	.76	.68	.61	.56	22.27
1000.	160.	15.57	4.68	2.71	1.91	1.48	1.21	1.02	.88	.78	.70	.63	.57	22.96
1000.	170.	16.02	4.79	2.78	1.95	1.51	1.24	1.04	.90	.80	.71	.64	.59	23.59
1000.	180.	16.26	4.86	2.81	1.98	1.53	1.25	1.06	.92	.81	.72	.65	.60	23.93
1000.	190.	16.27	4.87	2.82	1.98	1.54	1.25	1.06	.92	.81	.72	.65	.60	23.96
1000.	200.	16.19	4.86	2.82	1.98	1.54	1.25	1.06	.92	.81	.72	.65	.60	23.87
1000.	210.	16.02	4.84	2.81	1.98	1.53	1.25	1.06	.91	.81	.72	.65	.60	23.67
1000.	220.	15.80	4.80	2.79	1.97	1.52	1.24	1.05	.91	.80	.72	.65	.59	23.39
1000.	230.	15.54	4.75	2.77	1.95	1.51	1.23	1.04	.90	.80	.71	.64	.59	23.05
1000.	240.	15.25	4.69	2.74	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	22.68
1000.	250.	15.01	4.64	2.71	1.91	1.48	1.21	1.02	.88	.78	.70	.63	.58	22.36
1000.	260.	14.73	4.57	2.67	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	21.97
1000.	270.	14.40	4.48	2.62	1.84	1.43	1.17	.99	.85	.75	.67	.61	.56	21.49
1000.	280.	14.16	4.40	2.57	1.81	1.40	1.15	.97	.84	.74	.66	.60	.55	21.13
1000.	290.	14.22	4.40	2.57	1.81	1.40	1.15	.97	.84	.74	.66	.60	.55	21.19
1000.	300.	14.36	4.42	2.58	1.82	1.41	1.15	.97	.84	.74	.66	.60	.55	21.36
1000.	310.	14.56	4.46	2.59	1.83	1.41	1.15	.98	.84	.74	.67	.60	.55	21.61
1000.	185.	16.28	4.87	2.81	1.98	1.54	1.25	1.06	.92	.81	.72	.65	.60	23.96
1000.	195.	16.24	4.87	2.82	1.98	1.54	1.25	1.06	.92	.81	.72	.65	.60	23.92

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PROBABLE MAXIMUM STORM FOR CPNPP
STORM AREA = 1000. SQ. MI., ORIENTATION = 185., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 297.0, Y = 433.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	25.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	50.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	93.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	144.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	222.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	305.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	389.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	449.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	505.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	509.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	509.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	509.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	509.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	509.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.28	4.87	2.81	1.98	1.54	1.25	1.06	.92	.81	.72	.65	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66

PR 6.OUT

H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.56	1.11	1.65	3.17	5.44	8.37	10.92	16.28	21.14	23.96	25.94	27.47	28.73	29.79	30.70	31.51	32.24	32.89	33.49

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.47	1900	.21	2.45
0200	.10	.20	0800	.12	.84	1400	.15	1.63	2000	.21	2.65
0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.86
0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.07
0500	.10	.50	1100	.12	1.20	1700	.15	2.08	2300	.21	3.28
0600	.10	.60	1200	.12	1.32	1800	.15	2.24	2400	.21	3.49
6-HR TOTAL	.60			.72			.92			1.25	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.78	0700	.62	6.09	1300	1.42	11.75	1900	.57	27.18
0200	.30	4.09	0800	.68	6.77	1400	2.07	13.83	2000	.52	27.70
0300	.32	4.41	0900	.75	7.51	1500	2.92	16.75	2100	.48	28.18
0400	.34	4.74	1000	.83	8.35	1600	5.44	22.19	2200	.44	28.62
0500	.35	5.10	1100	.94	9.29	1700	2.56	24.75	2300	.42	29.03
0600	.38	5.47	1200	1.05	10.34	1800	1.86	26.61	2400	.40	29.43
6-HR TOTAL	1.98			4.87			16.28			2.81	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	29.69	0700	.18	31.14	1300	.13	32.16	1900	.11	32.94
0200	.26	29.94	0800	.18	31.32	1400	.13	32.29	2000	.11	33.05
0300	.26	30.20	0900	.18	31.49	1500	.13	32.43	2100	.11	33.16
0400	.26	30.45	1000	.18	31.67	1600	.13	32.56	2200	.11	33.27
0500	.26	30.71	1100	.18	31.85	1700	.13	32.70	2300	.11	33.38
0600	.26	30.96	1200	.18	32.02	1800	.13	32.83	2400	.11	33.49
6-HR TOTAL	1.54			1.06			.81			.65	

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BOUNDARY COORDINATES FOR BASIN4

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	97.3
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
STORM AREA = 1000. SQ. MI., ORIENTATION = 185., PREFERRED ORIENTATION = 215.
Page 4

PR 6.OUT

STORM CENTER COORDINATES, X = 297.0, Y = 433.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	24.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	44.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	78.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	115.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	171.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	223.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	292.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	350.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	406.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	411.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	411.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	411.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	411.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	411.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.09	4.84	2.81	1.98	1.53	1.25	1.06	.91	.81	.72	.65	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.55	1.09	1.62	3.12	5.36	8.25	10.78	16.09	20.93	23.74	25.72	27.25	28.50	29.55	30.47	31.27	31.99	32.65	33.24

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.47	1900	.21	2.44
0200	.10	.20	0800	.12	.84	1400	.15	1.62	2000	.21	2.65
0300	.10	.30	0900	.12	.96	1500	.15	1.77	2100	.21	2.86
0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.06
0500	.10	.50	1100	.12	1.20	1700	.15	2.08	2300	.21	3.27
0600	.10	.60	1200	.12	1.32	1800	.15	2.23	2400	.21	3.48
6-HR TOTAL	.60			.72			.91			1.25	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.77	0700	.62	6.07	1300	1.41	11.70	1900	.57	26.95
0200	.30	4.08	0800	.67	6.75	1400	2.06	13.76	2000	.52	27.47
0300	.32	4.39	0900	.74	7.49	1500	2.89	16.65	2100	.48	27.95
0400	.33	4.73	1000	.83	8.32	1600	5.36	22.01	2200	.44	28.39
0500	.35	5.08	1100	.93	9.25	1700	2.53	24.54	2300	.41	28.80
0600	.37	5.46	1200	1.05	10.30	1800	1.85	26.39	2400	.39	29.20
6-HR TOTAL	1.98			4.84			16.09			2.81	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	29.45	0700	.18	30.90	1300	.13	31.92	1900	.11	32.70
0200	.26	29.71	0800	.18	31.08	1400	.13	32.05	2000	.11	32.81
0300	.26	29.96	0900	.18	31.25	1500	.13	32.19	2100	.11	32.91
0400	.26	30.22	1000	.18	31.43	1600	.13	32.32	2200	.11	33.02
0500	.26	30.47	1100	.18	31.61	1700	.13	32.45	2300	.11	33.13
0600	.26	30.73	1200	.18	31.78	1800	.13	32.59	2400	.11	33.24
6-HR TOTAL	1.53			1.06			.81			.65	

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PR 6.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3
STORM AREA = 1000. SQ. MI., ORIENTATION = 185., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 297.0, Y = 433.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	0.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	0.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	2.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	15.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	23.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	24.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	24.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	24.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	24.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	24.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	24.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	24.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.39	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.53	1.06	1.57	3.03	5.19	7.94	10.33	15.39	20.22	23.05	25.06	26.61	27.88	28.95	29.88	30.70	31.43	32.09	32.70

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

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PR 6.OUT

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.62	6.16	1300	1.36	11.73	1900	.57	26.33
0200	.31	4.14	0800	.68	6.84	1400	1.95	13.67	2000	.52	26.85
0300	.32	4.46	0900	.75	7.58	1500	2.75	16.42	2100	.48	27.33
0400	.34	4.80	1000	.83	8.41	1600	5.19	21.61	2200	.45	27.77
0500	.36	5.16	1100	.92	9.34	1700	2.39	24.00	2300	.42	28.19
0600	.38	5.54	1200	1.03	10.37	1800	1.75	25.76	2400	.40	28.59
6-HR TOTAL	2.01			4.83			15.39			2.83	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	28.85	0700	.18	30.32	1300	.14	31.35	1900	.11	32.14
0200	.26	29.11	0800	.18	30.50	1400	.14	31.49	2000	.11	32.25
0300	.26	29.37	0900	.18	30.68	1500	.14	31.62	2100	.11	32.36
0400	.26	29.62	1000	.18	30.86	1600	.14	31.76	2200	.11	32.47
0500	.26	29.88	1100	.18	31.04	1700	.14	31.90	2300	.11	32.58
0600	.26	30.14	1200	.18	31.21	1800	.14	32.03	2400	.11	32.70
6-HR TOTAL	1.55			1.07			.82			.66	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 1000. SQ. MI., ORIENTATION = 185., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 297.0, Y = 433.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	0.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	0.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	0.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	6.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	10.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	10.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	10.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	10.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	10.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	10.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	10.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	10.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.32	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

PR 6.OUT

R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.53	1.05	1.56	3.01	5.16	7.90	10.28	15.32	20.15	22.98	24.98	26.54	27.81	28.88	29.81	30.63	31.36	32.02	32.62

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.62	6.16	1300	1.35	11.72	1900	.57	26.25
0200	.31	4.14	0800	.68	6.84	1400	1.94	13.66	2000	.52	26.77
0300	.32	4.46	0900	.75	7.58	1500	2.74	16.39	2100	.48	27.25
0400	.34	4.80	1000	.83	8.41	1600	5.16	21.56	2200	.45	27.70
0500	.36	5.16	1100	.92	9.33	1700	2.38	23.94	2300	.42	28.12
0600	.38	5.54	1200	1.03	10.36	1800	1.75	25.69	2400	.40	28.52
6-HR TOTAL	2.01			4.83			15.32			2.83	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	28.78	0700	.18	30.25	1300	.14	31.28	1900	.11	32.07
0200	.26	29.04	0800	.18	30.43	1400	.14	31.42	2000	.11	32.18
0300	.26	29.29	0900	.18	30.61	1500	.14	31.55	2100	.11	32.29
0400	.26	29.55	1000	.18	30.79	1600	.14	31.69	2200	.11	32.40
0500	.26	29.81	1100	.18	30.96	1700	.14	31.82	2300	.11	32.51
0600	.26	30.07	1200	.18	31.14	1800	.14	31.96	2400	.11	32.62
6-HR TOTAL	1.55			1.07			.82			.66	

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

X	352.8	330.1	309.2	294.8	305.6	288.8	298.1	296.6	308.6	318.8
Y	439.5	425.4	374.5	331.2	266.6	244.3	211.3	200.4	181.5	185.0
X	322.0	356.2	365.0	366.5	386.2	392.3	377.5	398.6	380.8	385.9
Y	180.9	177.0	179.7	181.0	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5
X	352.8									
Y	441.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
STORM AREA = 1000. SQ. MI., ORIENTATION = 185., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 297.0, Y = 433.0

ISOHYET	AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A	10.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B	25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C	50.	5.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D	100.	16.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E	175.	30.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F	300.	50.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G	450.	62.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H	700.	64.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I	1000.	64.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J	1500.	64.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K	2150.	64.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L	3000.	64.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M	4500.	64.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N	6500.	64.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O	10000.	64.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P	15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH			17.97	5.04	2.86	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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PR 6.OUT

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.63	1.25	1.86	3.58	6.12	9.34	12.16	17.97	23.01	25.86	27.87	29.42	30.69	31.76	32.69	33.51	34.24	34.91	35.51

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PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.63	6.17	1300	1.52	12.09	1900	.58	29.12
0200	.31	4.14	0800	.69	6.86	1400	2.27	14.36	2000	.53	29.65
0300	.32	4.46	0900	.77	7.64	1500	3.22	17.58	2100	.48	30.14
0400	.34	4.80	1000	.86	8.50	1600	6.12	23.70	2200	.45	30.58
0500	.36	5.16	1100	.98	9.47	1700	2.81	26.52	2300	.42	31.00
0600	.38	5.54	1200	1.10	10.58	1800	2.03	28.54	2400	.40	31.40
6-HR TOTAL	2.01			5.04			17.97			2.86	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	31.66	0700	.18	33.14	1300	.14	34.17	1900	.11	34.96
0200	.26	31.92	0800	.18	33.31	1400	.14	34.30	2000	.11	35.07
0300	.26	32.18	0900	.18	33.49	1500	.14	34.44	2100	.11	35.18
0400	.26	32.44	1000	.18	33.67	1600	.14	34.57	2200	.11	35.29
0500	.26	32.70	1100	.18	33.85	1700	.14	34.71	2300	.11	35.40
0600	.26	32.96	1200	.18	34.03	1800	.14	34.85	2400	.11	35.51
6-HR TOTAL	1.55			1.07			.82			.66	

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                                                                    PR 7.OUT
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*                                       *                  *                                       *
*    PROBABLE MAXIMUM STORM  (HMR52)    *                  *    U.S. ARMY CORPS OF ENGINEERS       *
*            NOVEMBER 1982              *                  *  THE HYDROLOGIC ENGINEERING CENTER    *
*           REVISED  APRIL 91           *                  *          609 SECOND STREET            *
*                                       *                  *        DAVIS, CALIFORNIA 95616        *
*  RUN DATE 06/25/2008    TIME 10:13:28 *                  *  (916) 551-1748 OR (FTS) 460-1748     *
*                                       *                  *                                       *
*****************************************                  *****************************************

                                    H     H  M     M  RRRRRR   5555555   22222
                                    H     H  MM   MM  R     R  5        2     2
                                    H     H  M M M M  R     R  5             2
                                    HHHHHHH  M  M  M  RRRRRR   555555       2
                                    H     H  M     M  R   R        5     2
                                    H     H  M     M  R    R   5     5  2
                                    H     H  M     M  R     R   55555   2222222
1                             HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                                PAGE  1

      LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

         1          ID    HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
         2          ID    ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
         3          ID    STORM CENTER WITHIN PALUXY RIVER BASIN AT PR7

         4          BN   CPNPP
         5          ID    CALCULATE STORM OVER ENTIRE AREA
         6          BS  .05827
         7          BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
         8          BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
         9          BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   85.17
        10          BX   76.93   85.92   75.56   77.81   82.63    84.8   66.09   56.79   57.55   49.52
        11          BX   51.04    40.8   40.05   54.76   65.82   47.95   62.30   35.02   36.56   63.69
        12          BX   73.84   72.72   84.03  121.92  126.58  133.09  136.39  145.99  138.58  143.21
        13          BX  127.17  137.74  151.01  157.40  164.07  168.68  175.89  172.76  198.29  200.78
        14          BX  217.93  233.49  243.97  277.06  294.55  315.41  331.83  340.98  349.67  353.27
        15          BX  349.84  354.39  367.19  367.42  386.16  392.28  377.46  398.65  380.84  385.89
        16          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
        17          BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
        18          BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
        19          BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  547.94
        20          BY  530.64   505.2  501.21  486.11  484.73  480.07  460.51  459.91  445.42  431.26
        21          BY  423.96  416.89  406.78  378.07  347.05  304.18  290.43  242.80  238.08  238.71
        22          BY  233.34  225.26  226.56  215.42   225.3   225.3  213.74  213.23  195.37   187.2
        23          BY   150.2  138.83  120.25  124.31  115.41   94.86   88.63   82.92   85.08   92.18
        24          BY   92.91  104.32  104.64  101.45  114.21  121.11  122.14  112.91  115.82  123.27
        25          BY  135.16  137.78  172.22  181.89  198.56  228.19  249.82  273.83  307.02  320.85
        26          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
        27          HO     215
        28          HP      10    29.7    35.3    40.0    45.0    48.0
        29          HP     200    22.2    26.8    32.0    36.0    39.6
        30          HP    1000    15.9    20.7    25.8    30.0    33.4
        31          HP    5000     9.3    13.0    17.8    22.0    25.0
        32          HP   10000     7.1    10.3    14.4    18.5    21.0
        33          HP   20000     5.1     8.3    11.5    15.0    17.8
        34          SA       0       0       3
        35          SC     304     384
        36          ST      60   0.308       0       1
        37          PU      ON

        38          BN  BASIN4
        39          BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
        40          BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
        41          BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   97.35
        42          BX   81.49   85.17   76.93   85.92   75.56   77.81   82.63    84.8   70.55   66.09
        43          BX   56.79   57.55   49.52   51.04    40.8   40.05   54.76   61.58   65.82   47.95
        44          BX   62.30   35.02   36.56   46.93   55.09   63.69   73.84   72.72   84.03   92.24
        45          BX   97.83  121.92  126.58  133.09  136.39  145.99  138.58  143.21  127.17  137.74
        46          BX  139.10  151.01  157.40  164.07  200.07  219.86  230.63  240.75  246.73  251.89
        47          BX  260.06  275.37  281.37  281.37  285.03   291.7  296.69  298.06  288.52  305.69
        48          BX  294.79  330.09
        49          BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
        50          BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
        51          BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  567.83
        52          BY  554.59  547.94  530.64   505.2  501.21  486.11  484.73  480.07  471.39  460.51
        53          BY  459.91  445.42  431.26  423.96  416.89  406.78  378.07  377.45  347.05  304.18
1                             HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                                PAGE  2

      LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

        54          BY  290.43  242.80  238.08  239.96  236.18  238.71  233.34  225.26  226.56  224.02
        55          BY  224.87  215.42   225.3   225.3  213.74  213.23  195.37   187.2   150.2  138.83
        56          BY   127.7  120.25  124.31  115.41  125.34  135.17  153.31  156.62  153.56  154.76
        57          BY  154.76  160.46  167.45  177.77  188.09  192.59  200.58  211.24     244  264.84
        58          BY   331.2  425.42

        59          BN  BASIN3
        60          ID    SUBBASIN3
        61          BX  296.69  291.69  285.04  281.37  281.37  275.37  260.06  251.89  246.63  240.75
        62          BX  230.63  225.36  219.86  200.07  164.07  168.68  175.89  172.76  198.29  200.78
        63          BX  217.93  233.49  243.97  247.19  253.98  261.76  272.19  277.06  287.20  290.72
        64          BX  294.55  306.52  308.51  303.88  308.46  307.93  308.87
        65          BY  200.58  192.59  188.09  177.77  167.45  160.46  154.76  154.76  153.56  156.62
        66          BY  153.31  145.58  135.17  125.34  115.41   94.86   88.63   82.92   85.08   92.18
        67          BY   92.91  104.32  104.64  101.71  106.79  105.33  107.43  101.45  107.36  107.36
        68          BY  114.21  114.52  116.39  128.54  141.75  169.52  181.13

        69          BN  BASIN2
        70          ID    SUBBASIN2
        71          BX  367.42  364.98  356.16  322.02  318.79  308.87  307.93  308.46  303.88  308.51
        72          BX  315.41  331.83  340.98  349.67  353.27  349.84  354.39  357.02  364.94  364.65
        73          BX  367.19
                                                    Page 1
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74          BY  181.89  179.72     177  180.58  183.71  181.13  169.52  141.75  128.54  116.39
75          BY  121.11  122.14  122.91  115.82  123.27  135.16  137.78     149  163.23  170.54
76          BY  172.22

77          BN  BASIN1
78          ID    SUBBASIN1
79          BX  352.79  330.08  309.24  294.79  305.63  288.78  298.06  296.58  308.64   318.8
80          BX  322.02  356.16  364.98  366.54  386.16  392.28  377.46  398.65  380.84  385.89
81          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
82          BX  352.83
83          BY  439.49  425.42  374.54   331.2  266.57  244.31  211.25  200.39  181.51  185.02
84          BY  180.91     177  179.72  181.01  198.56  228.19  249.82  273.83  307.02  320.85
85          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
86          BY  441.22

87          ZZ
1*****************************************                    *****************************************
*                                         *                    *                                       *
*    PROBABLE MAXIMUM STORM  (HMR52)      *                    *   U.S. ARMY CORPS OF ENGINEERS        *
*            NOVEMBER 1982                *                    *  THE HYDROLOGIC ENGINEERING CENTER    *
*          REVISED  APRIL 91              *                    *          609 SECOND STREET            *
*                                         *                    *       DAVIS, CALIFORNIA 95616         *
*  RUN DATE 06/25/2008    TIME 10:13:28   *                    *  (916) 551-1748 OR (FTS) 460-1748     *
*                                         *                    *                                       *
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
STORM CENTER WITHIN PALUXY RIVER BASIN AT PR7
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	DURATION 6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
200.	22.20	26.80	32.00	36.00	39.60
1000.	15.90	20.70	25.80	30.00	33.40
5000.	9.30	13.00	17.80	22.00	25.00
10000.	7.10	10.30	14.40	18.50	21.00
20000.	5.10	8.30	11.50	15.00	17.80

STORM AREA	PMP DEPTHS FOR 6-HOUR INCREMENTS											
10.	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61
25.	27.92	5.22	2.95	2.06	1.59	1.29	1.09	.94	.83	.74	.67	.61
50.	26.45	5.09	2.91	2.05	1.58	1.29	1.09	.94	.83	.74	.67	.61
100.	24.29	4.91	2.86	2.02	1.57	1.28	1.08	.94	.82	.74	.67	.61
175.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61
300.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
450.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61
700.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
1000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
1500.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60
2150.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60
3000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60
4500.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60
6500.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58
10000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55
15000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52
20000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50

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BOUNDARY COORDINATES FOR CPNPP

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	85.2
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	547.9
X	76.9	85.9	75.6	77.8	82.6	84.8	66.1	56.8	57.5	49.5
Y	530.6	505.2	501.2	486.1	484.7	480.1	460.5	459.9	445.4	431.3
X	51.0	40.8	40.0	54.8	65.8	48.0	62.3	35.0	36.6	63.7
Y	424.0	416.9	406.8	378.1	347.0	304.2	290.4	242.8	238.1	238.7
X	73.8	72.7	84.0	121.9	126.6	133.1	136.4	146.0	138.6	143.2
Y	233.3	225.3	226.6	215.4	225.3	225.3	213.7	213.2	195.4	187.2
X	127.2	137.7	151.0	157.4	164.1	168.7	175.9	172.8	198.3	200.8
Y	150.2	138.8	120.3	124.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	277.1	294.5	315.4	331.8	341.0	349.7	353.3
Y	92.9	104.3	104.6	101.4	114.2	121.1	122.1	112.9	115.8	123.3
X	349.8	354.4	367.2	367.4	386.2	392.3	377.5	398.6	380.8	385.9
Y	135.2	137.8	172.2	181.9	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5

SCALE = .0583 MILES PER COORDINATE UNIT

PR 7.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

1

VARYING STORM AREA SIZE AND FIXED ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
10.	169.	7.99	1.47	.82	.57	.43	.35	.30	.26	.23	.20	.18	.17	10.28
25.	169.	10.58	2.21	1.28	.90	.69	.56	.47	.41	.36	.32	.29	.27	14.07
50.	169.	12.45	2.76	1.63	1.15	.89	.72	.61	.53	.46	.41	.38	.34	16.84
100.	169.	13.92	3.23	1.95	1.38	1.07	.87	.74	.64	.56	.50	.46	.42	19.10
175.	169.	15.00	3.56	2.18	1.56	1.21	.99	.84	.73	.64	.57	.52	.47	20.74
300.	169.	15.72	3.96	2.41	1.72	1.33	1.09	.92	.80	.71	.63	.57	.52	22.09
450.	169.	16.12	4.26	2.56	1.82	1.41	1.15	.98	.85	.75	.67	.60	.55	22.94
700.	169.	16.22	4.57	2.70	1.91	1.48	1.21	1.02	.89	.78	.70	.63	.58	23.49
1000.	169.	16.10	4.80	2.78	1.95	1.51	1.24	1.04	.90	.80	.71	.64	.59	23.68
1500.	169.	15.62	4.67	2.73	1.93	1.51	1.23	1.04	.91	.80	.72	.65	.59	23.02
2150.	169.	15.00	4.49	2.65	1.89	1.48	1.22	1.03	.90	.79	.71	.64	.59	22.14
3000.	169.	14.29	4.33	2.57	1.84	1.45	1.19	1.01	.88	.78	.70	.63	.58	21.19
4500.	169.	13.49	4.15	2.50	1.80	1.42	1.18	1.01	.88	.78	.70	.63	.58	20.14
6500.	169.	12.91	3.92	2.38	1.72	1.37	1.13	.97	.85	.75	.67	.61	.56	19.21
10000.	169.	12.09	3.61	2.20	1.60	1.28	1.06	.91	.80	.71	.64	.58	.53	17.90
15000.	169.	11.31	3.38	2.06	1.50	1.20	1.00	.86	.75	.67	.60	.55	.50	16.75
20000.	169.	10.55	3.21	1.95	1.43	1.14	.96	.82	.72	.64	.58	.53	.48	15.71

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
1000.	140.	15.32	4.61	2.67	1.88	1.46	1.19	1.00	.87	.77	.69	.62	.57	22.60
1000.	150.	15.47	4.63	2.68	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.78
1000.	160.	15.84	4.72	2.73	1.92	1.49	1.22	1.03	.89	.78	.70	.63	.58	23.30
1000.	170.	16.13	4.81	2.78	1.96	1.52	1.24	1.05	.91	.80	.71	.65	.59	23.72
1000.	180.	16.20	4.84	2.80	1.97	1.53	1.25	1.05	.91	.80	.72	.65	.59	23.84
1000.	190.	16.06	4.82	2.79	1.97	1.52	1.24	1.05	.91	.80	.72	.65	.59	23.68
1000.	200.	15.89	4.79	2.78	1.96	1.51	1.24	1.04	.90	.80	.71	.65	.59	23.45
1000.	210.	15.71	4.76	2.76	1.95	1.51	1.23	1.04	.90	.79	.71	.64	.59	23.23
1000.	220.	15.52	4.73	2.75	1.94	1.50	1.23	1.04	.90	.79	.71	.64	.58	23.00
1000.	230.	15.36	4.70	2.74	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	22.80
1000.	240.	15.23	4.68	2.73	1.92	1.49	1.22	1.03	.89	.78	.70	.63	.58	22.63
1000.	250.	15.12	4.66	2.72	1.91	1.48	1.21	1.02	.89	.78	.70	.63	.58	22.49
1000.	260.	14.95	4.61	2.69	1.90	1.47	1.20	1.01	.88	.77	.69	.63	.57	22.26
1000.	270.	14.75	4.55	2.66	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56	21.95
1000.	280.	14.61	4.50	2.62	1.85	1.43	1.17	.99	.86	.75	.67	.61	.56	21.73
1000.	290.	14.77	4.53	2.64	1.86	1.44	1.18	.99	.86	.76	.68	.61	.56	21.94
1000.	300.	14.94	4.55	2.65	1.87	1.45	1.18	1.00	.86	.76	.68	.62	.56	22.14
1000.	310.	15.14	4.58	2.66	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56	22.39
1000.	175.	16.23	4.85	2.80	1.97	1.53	1.25	1.05	.91	.81	.72	.65	.59	23.88
1000.	185.	16.15	4.83	2.80	1.97	1.53	1.25	1.05	.91	.80	.72	.65	.59	23.78

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PROBABLE MAXIMUM STORM FOR CPNPP
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 304.0, Y = 384.0

ISOHYET	AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A	10.	10.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B	25.	25.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C	50.	50.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D	100.	97.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E	175.	161.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F	300.	240.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G	450.	299.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H	700.	371.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I	1000.	441.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J	1500.	495.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K	2150.	509.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L	3000.	509.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M	4500.	509.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N	6500.	509.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O	10000.	509.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P	15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH			16.23	4.85	2.80	1.97	1.53	1.25	1.05	.91	.81	.72	.65	.59

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66

PR 7.OUT

H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.55	1.10	1.63	3.15	5.41	8.33	10.89	16.23	21.08	23.88	25.86	27.39	28.63	29.69	30.60	31.41	32.12	32.78	33.37

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.71	1300	.15	1.47	1900	.21	2.44
0200	.10	.20	0800	.12	.83	1400	.15	1.62	2000	.21	2.64
0300	.10	.30	0900	.12	.95	1500	.15	1.77	2100	.21	2.85
0400	.10	.40	1000	.12	1.07	1600	.15	1.92	2200	.21	3.06
0500	.10	.50	1100	.12	1.19	1700	.15	2.08	2300	.21	3.27
0600	.10	.59	1200	.12	1.31	1800	.15	2.23	2400	.21	3.47
6-HR TOTAL	.59			.72			.91			1.25	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.77	0700	.62	6.06	1300	1.41	11.71	1900	.57	27.09
0200	.30	4.07	0800	.67	6.74	1400	2.07	13.78	2000	.52	27.61
0300	.32	4.39	0900	.74	7.48	1500	2.92	16.70	2100	.47	28.08
0400	.33	4.72	1000	.83	8.31	1600	5.41	22.11	2200	.44	28.52
0500	.35	5.07	1100	.93	9.25	1700	2.56	24.67	2300	.41	28.94
0600	.37	5.45	1200	1.05	10.29	1800	1.86	26.53	2400	.39	29.33
6-HR TOTAL	1.97			4.85			16.23			2.80	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.25	29.59	0700	.18	31.04	1300	.13	32.05	1900	.11	32.83
0200	.25	29.84	0800	.18	31.21	1400	.13	32.18	2000	.11	32.94
0300	.25	30.10	0900	.18	31.39	1500	.13	32.32	2100	.11	33.04
0400	.25	30.35	1000	.18	31.56	1600	.13	32.45	2200	.11	33.15
0500	.25	30.61	1100	.18	31.74	1700	.13	32.59	2300	.11	33.26
0600	.25	30.86	1200	.18	31.91	1800	.13	32.72	2400	.11	33.37
6-HR TOTAL	1.53			1.05			.81			.65	

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BOUNDARY COORDINATES FOR BASIN4

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	97.3
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
Page 4

PR 7.OUT

STORM CENTER COORDINATES, X = 304.0, Y = 384.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	7.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	16.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	32.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	63.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	105.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	160.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	210.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	277.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	343.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	397.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	411.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	411.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	411.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	411.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	411.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.71	4.79	2.79	1.97	1.52	1.24	1.05	.91	.80	.72	.65	.59

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.53	1.05	1.57	3.02	5.20	8.03	10.50	15.71	20.50	23.28	25.25	26.77	28.01	29.07	29.97	30.78	31.49	32.14	32.73

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.71	1300	.15	1.46	1900	.21	2.43
0200	.10	.20	0800	.12	.83	1400	.15	1.61	2000	.21	2.63
0300	.10	.30	0900	.12	.95	1500	.15	1.76	2100	.21	2.84
0400	.10	.39	1000	.12	1.07	1600	.15	1.92	2200	.21	3.05
0500	.10	.49	1100	.12	1.19	1700	.15	2.07	2300	.21	3.25
0600	.10	.59	1200	.12	1.31	1800	.15	2.22	2400	.21	3.46
6-HR TOTAL	.59			.72			.91			1.24	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.75	0700	.61	6.04	1300	1.38	11.60	1900	.56	26.48
0200	.30	4.05	0800	.67	6.70	1400	2.01	13.61	2000	.51	27.00
0300	.32	4.37	0900	.74	7.44	1500	2.83	16.44	2100	.47	27.47
0400	.33	4.70	1000	.82	8.26	1600	5.20	21.64	2200	.44	27.91
0500	.35	5.05	1100	.92	9.18	1700	2.48	24.11	2300	.41	28.32
0600	.37	5.43	1200	1.03	10.22	1800	1.81	25.92	2400	.39	28.71
6-HR TOTAL	1.97			4.79			15.71			2.79	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	28.96	0700	.18	30.41	1300	.13	31.42	1900	.11	32.19
0200	.25	29.22	0800	.18	30.58	1400	.13	31.55	2000	.11	32.30
0300	.25	29.47	0900	.18	30.76	1500	.13	31.68	2100	.11	32.41
0400	.25	29.73	1000	.18	30.93	1600	.13	31.82	2200	.11	32.52
0500	.25	29.98	1100	.18	31.11	1700	.13	31.95	2300	.11	32.63
0600	.25	30.23	1200	.18	31.28	1800	.13	32.09	2400	.11	32.73
6-HR TOTAL	1.52			1.05			.80			.65	

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PR 7.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 304.0, Y = 384.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	0.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	0.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	6.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	14.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	20.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	24.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	24.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	24.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	24.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	24.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	24.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	24.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.47	4.84	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.53	1.06	1.58	3.04	5.22	7.98	10.39	15.47	20.31	23.14	25.15	26.70	27.97	29.04	29.97	30.79	31.52	32.18	32.78

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

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PR 7.OUT

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.62	6.16	1300	1.36	11.74	1900	.57	26.41
0200	.31	4.14	0800	.68	6.84	1400	1.96	13.69	2000	.52	26.94
0300	.32	4.46	0900	.75	7.58	1500	2.77	16.46	2100	.48	27.42
0400	.34	4.80	1000	.83	8.42	1600	5.22	21.68	2200	.45	27.86
0500	.36	5.16	1100	.93	9.34	1700	2.41	24.08	2300	.42	28.28
0600	.38	5.54	1200	1.03	10.38	1800	1.76	25.85	2400	.40	28.68
6-HR TOTAL	2.01			4.84			15.47			2.83	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	28.94	0700	.18	30.41	1300	.14	31.44	1900	.11	32.23
0200	.26	29.20	0800	.18	30.59	1400	.14	31.58	2000	.11	32.34
0300	.26	29.46	0900	.18	30.77	1500	.14	31.71	2100	.11	32.45
0400	.26	29.71	1000	.18	30.95	1600	.14	31.85	2200	.11	32.56
0500	.26	29.97	1100	.18	31.13	1700	.14	31.99	2300	.11	32.67
0600	.26	30.23	1200	.18	31.30	1800	.14	32.12	2400	.11	32.78
6-HR TOTAL	1.55			1.07			.82			.66	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 304.0, Y = 384.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	0.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	0.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	10.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	10.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	10.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	10.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	10.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	10.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	10.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	10.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	10.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	10.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.93	4.96	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

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PR 7.OUT

R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.59	1.17	1.74	3.35	5.74	8.77	11.42	16.93	21.88	24.73	26.73	28.29	29.56	30.63	31.56	32.38	33.11	33.77	34.37

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.63	6.17	1300	1.45	11.95	1900	.57	28.00
0200	.31	4.14	0800	.69	6.85	1400	2.14	14.09	2000	.52	28.52
0300	.32	4.46	0900	.76	7.61	1500	3.03	17.12	2100	.48	29.00
0400	.34	4.80	1000	.85	8.46	1600	5.74	22.86	2200	.45	29.45
0500	.36	5.16	1100	.96	9.42	1700	2.65	25.50	2300	.42	29.87
0600	.38	5.54	1200	1.07	10.49	1800	1.92	27.42	2400	.40	30.27
6-HR TOTAL	2.01			4.96			16.93			2.85	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.53	0700	.18	32.00	1300	.14	33.03	1900	.11	33.82
0200	.26	30.79	0800	.18	32.18	1400	.14	33.17	2000	.11	33.93
0300	.26	31.04	0900	.18	32.36	1500	.14	33.30	2100	.11	34.04
0400	.26	31.30	1000	.18	32.54	1600	.14	33.44	2200	.11	34.15
0500	.26	31.56	1100	.18	32.71	1700	.14	33.58	2300	.11	34.26
0600	.26	31.82	1200	.18	32.89	1800	.14	33.71	2400	.11	34.37
6-HR TOTAL	1.55			1.07			.82			.66	

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

X	352.8	330.1	309.2	294.8	305.6	288.8	298.1	296.6	308.6	318.8
Y	439.5	425.4	374.5	331.2	266.6	244.3	211.3	200.4	181.5	185.0
X	322.0	356.2	365.0	366.5	386.2	392.3	377.5	398.6	380.8	385.9
Y	180.9	177.0	179.7	181.0	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5
X	352.8									
Y	441.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 304.0, Y = 384.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	3.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	9.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	18.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	35.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	56.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	64.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	64.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	64.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	64.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	64.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	64.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	64.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	64.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	64.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	64.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		19.81	5.21	2.89	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

1

PR 7.OUT

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.70	1.39	2.07	3.98	6.80	10.35	13.46	19.81	25.01	27.90	29.90	31.46	32.73	33.80	34.73	35.55	36.28	36.94	37.54

1

PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.64	6.18	1300	1.63	12.38	1900	.59	31.14
0200	.31	4.14	0800	.71	6.89	1400	2.49	14.87	2000	.53	31.68
0300	.32	4.46	0900	.79	7.68	1500	3.55	18.42	2100	.49	32.16
0400	.34	4.80	1000	.89	8.58	1600	6.80	25.22	2200	.45	32.61
0500	.36	5.16	1100	1.01	9.59	1700	3.11	28.33	2300	.42	33.04
0600	.38	5.54	1200	1.15	10.74	1800	2.22	30.55	2400	.40	33.44
6-HR TOTAL	2.01			5.21			19.81			2.89	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	33.70	0700	.18	35.17	1300	.14	36.20	1900	.11	36.99
0200	.26	33.96	0800	.18	35.35	1400	.14	36.34	2000	.11	37.10
0300	.26	34.21	0900	.18	35.53	1500	.14	36.47	2100	.11	37.21
0400	.26	34.47	1000	.18	35.71	1600	.14	36.61	2200	.11	37.32
0500	.26	34.73	1100	.18	35.88	1700	.14	36.75	2300	.11	37.43
0600	.26	34.99	1200	.18	36.06	1800	.14	36.88	2400	.11	37.54
6-HR TOTAL	1.55			1.07			.82			.66	

1

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1*****************************************                     ****************************************
 *                                       *                     *                                      *
 *   PROBABLE MAXIMUM STORM  (HMR52)     *                     *    U.S. ARMY CORPS OF ENGINEERS      *
 *            NOVEMBER 1982              *                     *  THE HYDROLOGIC ENGINEERING CENTER   *
 *          REVISED  APRIL 91            *                     *         609 SECOND STREET            *
 *                                       *                     *      DAVIS, CALIFORNIA 95616         *
 * RUN DATE 06/25/2008    TIME 10:14:01  *                     *  (916) 551-1748 OR (FTS) 460-1748    *
 *                                       *                     *                                      *
 *****************************************                     ****************************************




                                   H     H  M     M  RRRRRR   5555555   22222
                                   H     H  MM   MM  R     R  5        2     2
                                   H     H  M M M M  R     R  5              2
                                   HHHHHHH  M  M  M  RRRRRR   555555        2
                                   H     H  M     M  R   R          5     2
                                   H     H  M     M  R    R   5     5   2
                                   H     H  M     M  R     R   55555   2222222
1                            HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                             PAGE  1

          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

             1          ID    HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
             2          ID    ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
             3          ID    STORM CENTER WITHIN PALUXY RIVER BASIN AT PR8

             4          BN   CPNPP
             5          ID    CALCULATE STORM OVER ENTIRE AREA
             6          BS  .05827
             7          BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
             8          BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
             9          BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   85.17
            10          BX   76.93   85.92   75.56   77.81   82.63    84.8   66.09   56.79   57.55   49.52
            11          BX   51.04    40.8   40.05   54.76   65.82   47.95   62.30   35.02   36.56   63.69
            12          BX   73.84   72.72   84.03  121.92  126.58  133.09  136.39  145.99  138.58  143.21
            13          BX  127.17  137.74  151.01  157.40  164.07  168.68  175.89  172.76  198.29  200.78
            14          BX  217.93  233.49  243.97  277.06  294.55  315.41  331.83  340.98  349.67  353.27
            15          BX  349.84  354.39  367.19  367.42  386.16  392.28  377.46  398.65  380.84  385.89
            16          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
            17          BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
            18          BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
            19          BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  547.94
            20          BY  530.64   505.2  501.21  486.11  484.73  480.07  460.51  459.91  445.42  431.26
            21          BY  423.96  416.89  406.78  378.07  347.05  304.18  290.43  242.80  238.08  238.71
            22          BY  233.34  225.26  226.56  215.42   225.3   225.3  213.74  213.23  195.37   187.2
            23          BY   150.2  138.83  120.25  124.31  115.41   94.86   88.63   82.92   85.08   92.18
            24          BY   92.91  104.32  104.64  101.45  114.21  121.11  122.14  112.91  115.82  123.27
            25          BY  135.16  137.78  172.22  181.89  198.56  228.19  249.82  273.83  307.02  320.85
            26          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
            27          HO     215
            28          HP      10    29.7    35.3    40.0    45.0    48.0
            29          HP     200    22.2    26.8    32.0    36.0    39.6
            30          HP    1000    15.9    20.7    25.8    30.0    33.4
            31          HP    5000     9.3    13.0    17.8    22.0    25.0
            32          HP   10000     7.1    10.3    14.4    18.5    21.0
            33          HP   20000     5.1     8.3    11.5    15.0    17.8
            34          SA       0       0       3
            35          SC     255     377
            36          ST      60   0.308       0       1
            37          PU      ON

            38          BN  BASIN4
            39          BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
            40          BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
            41          BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   97.35
            42          BX   81.49   85.17   76.93   85.92   75.56   77.81   82.63    84.8   70.55   66.09
            43          BX   56.79   57.55   49.52   51.04    40.8   40.05   54.76   61.58   65.82   47.95
            44          BX   62.30   35.02   36.56   46.93   55.09   63.69  73.84    72.72   84.03   92.24
            45          BX   97.83  121.92  126.58  133.09  136.39  145.99  138.58  143.21  127.17  137.74
            46          BX  139.10  151.01  157.40  164.07  200.07  219.86  230.63  240.75  246.73  251.89
            47          BX  260.06  275.37  281.37  281.37  285.03   291.7  296.69  298.06  288.52  305.69
            48          BX  294.79  330.09
            49          BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
            50          BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
            51          BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  567.83
            52          BY  554.59  547.94  530.64   505.2  501.21  486.11  484.73  480.07  471.39  460.51
            53          BY  459.91  445.42  431.26  423.96  416.89  406.78  378.07  377.45  347.05  304.18
1                            HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                             PAGE  2

          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

            54          BY  290.43  242.80  238.08  239.96  236.18  238.71  233.34  225.26  226.56  224.02
            55          BY  224.87  215.42   225.3   225.3  213.74  213.23  195.37   187.2   150.2  138.83
            56          BY   127.7  120.25  124.31  115.41  125.34  135.17  153.31  156.62  153.56  154.76
            57          BY  154.76  160.46  167.45  177.77  188.09  192.59  200.58  211.24     244  264.84
            58          BY   331.2  425.42

            59          BN  BASIN3
            60          ID    SUBBASIN3
            61          BX  296.69  291.69  285.04  281.37  281.37  275.37  260.06  251.89  246.63  240.75
            62          BX  230.63  225.36  219.86  200.07  164.07  168.68  175.89  172.76  198.29  200.78
            63          BX  217.93  233.49  243.97  247.19  253.98  261.76  272.19  277.06  287.20  290.72
            64          BX  294.55  306.52  308.51  303.88  308.46  307.93  308.87
            65          BY  200.58  192.59  188.09  177.77  167.45  160.46  154.76  154.76  153.56  156.62
            66          BY  153.31  145.58  135.17  125.34  115.41   94.86   88.63   82.92   85.08   92.18
            67          BY   92.91  104.32  104.64  101.71  106.79  105.33  107.43  101.45  107.36  107.36
            68          BY  114.21  114.52  116.39  128.54  141.75  169.52  181.13

            69          BN  BASIN2
            70          ID    SUBBASIN2
            71          BX  367.42  364.98  356.16  322.02  318.79  308.87  307.93  308.46  303.88  308.51
            72          BX  315.41  331.83  340.98  349.67  353.27  349.84  354.39  357.02  364.94  364.65
            73          BX  367.19
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PR 8.OUT

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74          BY  181.89  179.72     177  180.58  183.71  181.13  169.52  141.75  128.54  116.39
75          BY  121.11  122.14  122.91  115.82  123.27  135.16  137.78     149  163.23  170.54
76          BY  172.22

77          BN  BASIN1
78          ID    SUBBASIN1
79          BX  352.79  330.08  309.24  294.79  305.63  288.78  298.06  296.58  308.64   318.8
80          BX  322.02  356.16  364.98  366.54  386.16  392.28  377.46  398.65  380.84  385.89
81          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
82          BX  352.83
83          BY  439.49  425.42  374.54   331.2  266.57  244.31  211.25  200.39  181.51  185.02
84          BY  180.91     177  179.72  181.01  198.56  228.19  249.82  273.83  307.02  320.85
85          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
86          BY  441.22

87          ZZ
1*****************************************                                    ****************************************
 *                                       *                                    *                                      *
 *    PROBABLE MAXIMUM STORM  (HMR52)    *                                    *    U.S. ARMY CORPS OF ENGINEERS      *
 *            NOVEMBER 1982              *                                    *  THE HYDROLOGIC ENGINEERING CENTER   *
 *          REVISED  APRIL 91            *                                    *          609 SECOND STREET           *
 *                                       *                                    *       DAVIS, CALIFORNIA 95616        *
 *  RUN DATE 06/25/2008    TIME 10:14:01 *                                    *  (916) 551-1748 OR (FTS) 460-1748    *
 *                                       *                                    *                                      *
 *****************************************                                    ****************************************
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
STORM CENTER WITHIN PALUXY RIVER BASIN AT PR8
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	DURATION 6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
200.	22.20	26.80	32.00	36.00	39.60
1000.	15.90	20.70	25.80	30.00	33.40
5000.	9.30	13.00	17.80	22.00	25.00
10000.	7.10	10.30	14.40	18.50	21.00
20000.	5.10	8.30	11.50	15.00	17.80

STORM AREA	PMP DEPTHS FOR 6-HOUR INCREMENTS											
10.	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61
25.	27.92	5.22	2.95	2.06	1.59	1.29	1.09	.94	.83	.74	.67	.61
50.	26.45	5.09	2.91	2.05	1.58	1.29	1.09	.94	.83	.74	.67	.61
100.	24.29	4.91	2.86	2.02	1.57	1.28	1.08	.94	.82	.74	.67	.61
175.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61
300.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
450.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61
700.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
1000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
1500.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60
2150.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60
3000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60
4500.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60
6500.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58
10000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55
15000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52
20000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50

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BOUNDARY COORDINATES FOR CPNPP

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	85.2
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	547.9
X	76.9	85.9	75.6	77.8	82.6	84.8	66.1	56.8	57.5	49.5
Y	530.6	505.2	501.2	486.1	484.7	480.1	460.5	459.9	445.4	431.3
X	51.0	40.8	40.0	54.8	65.8	48.0	62.3	35.0	36.6	63.7
Y	424.0	416.9	406.8	378.1	347.0	304.2	290.4	242.8	238.1	238.7
X	73.8	72.7	84.0	121.9	126.6	133.1	136.4	146.0	138.6	143.2
Y	233.3	225.3	226.6	215.4	225.3	225.3	213.7	213.2	195.4	187.2
X	127.2	137.7	151.0	157.4	164.1	168.7	175.9	172.8	198.3	200.8
Y	150.2	138.8	120.3	124.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	277.1	294.5	315.4	331.8	341.0	349.7	353.3
Y	92.9	104.3	104.6	101.4	114.2	121.1	122.1	112.9	115.8	123.3
X	349.8	354.4	367.2	367.4	386.2	392.3	377.5	398.6	380.8	385.9
Y	135.2	137.8	172.2	181.9	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5

SCALE = .0583 MILES PER COORDINATE UNIT

Page 2

PR 8.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

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VARYING STORM AREA SIZE AND FIXED ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
10.	171.	8.92	1.64	.91	.63	.48	.39	.33	.29	.25	.22	.20	.18	11.47
25.	171.	11.67	2.43	1.40	.98	.76	.61	.52	.45	.39	.35	.32	.29	15.50
50.	171.	13.74	3.02	1.77	1.25	.96	.79	.66	.57	.51	.45	.41	.37	18.53
100.	171.	15.39	3.53	2.12	1.50	1.16	.95	.80	.69	.61	.55	.50	.45	21.04
175.	171.	16.67	3.89	2.37	1.69	1.32	1.08	.91	.79	.70	.63	.57	.52	22.93
300.	171.	17.53	4.30	2.60	1.86	1.44	1.18	1.00	.87	.76	.68	.62	.56	24.43
450.	171.	17.80	4.57	2.72	1.94	1.50	1.23	1.04	.90	.80	.71	.64	.59	25.10
700.	171.	17.52	4.79	2.80	1.98	1.54	1.25	1.06	.92	.81	.72	.66	.60	25.11
1000.	171.	17.11	4.95	2.83	1.99	1.54	1.26	1.06	.92	.81	.73	.66	.60	24.89
1500.	171.	16.49	4.77	2.76	1.95	1.52	1.24	1.05	.91	.81	.72	.65	.60	24.02
2150.	171.	15.86	4.58	2.68	1.91	1.49	1.23	1.04	.90	.80	.72	.65	.59	23.12
3000.	171.	15.18	4.43	2.61	1.86	1.46	1.20	1.02	.89	.79	.71	.64	.59	22.22
4500.	171.	14.32	4.25	2.54	1.82	1.44	1.19	1.02	.89	.79	.71	.64	.59	21.10
6500.	171.	13.70	4.01	2.41	1.74	1.38	1.15	.98	.86	.76	.68	.62	.57	20.12
10000.	171.	12.81	3.69	2.23	1.62	1.29	1.08	.92	.81	.72	.65	.59	.54	18.74
15000.	171.	11.96	3.46	2.09	1.52	1.21	1.01	.87	.76	.68	.61	.55	.51	17.51
20000.	171.	11.16	3.28	1.98	1.44	1.16	.97	.83	.73	.65	.58	.53	.49	16.42

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
700.	140.	16.53	4.60	2.70	1.91	1.48	1.21	1.02	.89	.78	.70	.63	.58	23.83
700.	150.	16.86	4.65	2.72	1.93	1.49	1.22	1.03	.89	.79	.71	.64	.58	24.23
700.	160.	17.25	4.73	2.76	1.95	1.52	1.24	1.05	.91	.80	.72	.65	.59	24.74
700.	170.	17.50	4.79	2.80	1.98	1.53	1.25	1.06	.92	.81	.72	.66	.60	25.09
700.	180.	17.51	4.80	2.81	1.98	1.54	1.26	1.06	.92	.81	.73	.66	.60	25.12
700.	190.	17.30	4.77	2.79	1.98	1.53	1.25	1.06	.92	.81	.72	.65	.60	24.86
700.	200.	16.96	4.72	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	24.45
700.	210.	16.57	4.65	2.74	1.94	1.50	1.23	1.04	.90	.79	.71	.64	.59	23.95
700.	220.	16.16	4.57	2.70	1.91	1.48	1.21	1.02	.89	.78	.70	.63	.58	23.43
700.	230.	15.79	4.50	2.66	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.95
700.	240.	15.50	4.44	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56	22.58
700.	250.	15.30	4.40	2.61	1.85	1.43	1.17	.99	.86	.76	.68	.61	.56	22.31
700.	260.	15.15	4.37	2.59	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	22.11
700.	270.	15.07	4.34	2.57	1.82	1.41	1.15	.98	.84	.75	.67	.60	.55	21.99
700.	280.	15.08	4.33	2.57	1.82	1.41	1.15	.97	.84	.74	.67	.60	.55	21.99
700.	290.	15.33	4.38	2.59	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	22.31
700.	300.	15.69	4.45	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56	22.77
700.	310.	16.10	4.52	2.67	1.89	1.46	1.20	1.01	.88	.77	.69	.62	.57	23.29
700.	175.	17.57	4.81	2.81	1.99	1.54	1.26	1.06	.92	.81	.73	.66	.60	25.19
700.	185.	17.43	4.79	2.80	1.98	1.54	1.26	1.06	.92	.81	.73	.66	.60	25.03

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PROBABLE MAXIMUM STORM FOR CPNPP
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 255.0, Y = 377.0

ISOHYET	AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A	10.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B	25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C	50.	50.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D	100.	100.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E	175.	175.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F	300.	296.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G	450.	392.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H	700.	467.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I	1000.	500.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J	1500.	509.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K	2150.	509.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L	3000.	509.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M	4500.	509.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N	6500.	509.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O	10000.	509.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P	15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH			17.57	4.81	2.81	1.99	1.54	1.26	1.06	.92	.81	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02

PR 8.OUT

H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.65	1.30	1.93	3.73	6.32	9.43	12.10	17.57	22.38	25.19	27.18	28.72	29.98	31.04	31.97	32.78	33.51	34.16	34.77

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.46
0200	.10	.20	0800	.12	.84	1400	.15	1.64	2000	.21	2.67
0300	.10	.30	0900	.12	.96	1500	.15	1.79	2100	.21	2.88
0400	.10	.40	1000	.12	1.09	1600	.15	1.94	2200	.21	3.09
0500	.10	.50	1100	.12	1.21	1700	.15	2.10	2300	.21	3.30
0600	.10	.60	1200	.12	1.33	1800	.15	2.25	2400	.21	3.51
6-HR TOTAL	.60			.73			.92			1.26	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.80	0700	.61	6.11	1300	1.43	11.74	1900	.56	28.44
0200	.31	4.11	0800	.67	6.77	1400	2.13	13.87	2000	.52	28.96
0300	.32	4.43	0900	.74	7.51	1500	3.11	16.98	2100	.48	29.44
0400	.34	4.77	1000	.82	8.33	1600	6.32	23.30	2200	.44	29.88
0500	.35	5.12	1100	.93	9.26	1700	2.68	25.98	2300	.42	30.29
0600	.38	5.50	1200	1.05	10.31	1800	1.90	27.88	2400	.40	30.69
6-HR TOTAL	1.99			4.81			17.57			2.81	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.95	0700	.18	32.41	1300	.14	33.43	1900	.11	34.22
0200	.26	31.20	0800	.18	32.58	1400	.14	33.56	2000	.11	34.33
0300	.26	31.46	0900	.18	32.76	1500	.14	33.70	2100	.11	34.44
0400	.26	31.72	1000	.18	32.94	1600	.14	33.84	2200	.11	34.55
0500	.26	31.97	1100	.18	33.12	1700	.14	33.97	2300	.11	34.66
0600	.26	32.23	1200	.18	33.29	1800	.14	34.11	2400	.11	34.77
6-HR TOTAL	1.54			1.06			.81			.66	

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BOUNDARY COORDINATES FOR BASIN4

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	97.3
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
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PR 8.OUT

STORM CENTER COORDINATES, X = 255.0, Y = 377.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	49.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	94.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	152.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	237.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	300.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	368.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	401.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	411.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	411.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	411.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	411.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	411.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	411.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.60	4.81	2.81	1.98	1.54	1.26	1.06	.92	.81	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.65	1.30	1.93	3.72	6.31	9.42	12.11	17.60	22.40	25.21	27.19	28.73	29.98	31.05	31.97	32.78	33.50	34.16	34.76

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.46
0200	.10	.20	0800	.12	.84	1400	.15	1.63	2000	.21	2.66
0300	.10	.30	0900	.12	.96	1500	.15	1.79	2100	.21	2.87
0400	.10	.40	1000	.12	1.08	1600	.15	1.94	2200	.21	3.08
0500	.10	.50	1100	.12	1.20	1700	.15	2.09	2300	.21	3.29
0600	.10	.60	1200	.12	1.33	1800	.15	2.25	2400	.21	3.50
6-HR TOTAL	.60			.73			.92			1.26	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.80	0700	.61	6.10	1300	1.43	11.72	1900	.56	28.45
0200	.30	4.10	0800	.66	6.76	1400	2.14	13.87	2000	.52	28.97
0300	.32	4.42	0900	.73	7.50	1500	3.11	16.98	2100	.48	29.44
0400	.34	4.75	1000	.82	8.32	1600	6.31	23.29	2200	.44	29.88
0500	.35	5.11	1100	.93	9.24	1700	2.69	25.98	2300	.41	30.30
0600	.38	5.48	1200	1.05	10.29	1800	1.91	27.89	2400	.39	30.69
6-HR TOTAL	1.98			4.81			17.60			2.81	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	30.95	0700	.18	32.41	1300	.14	33.43	1900	.11	34.21
0200	.26	31.20	0800	.18	32.58	1400	.14	33.56	2000	.11	34.32
0300	.26	31.46	0900	.18	32.76	1500	.14	33.70	2100	.11	34.43
0400	.26	31.72	1000	.18	32.94	1600	.14	33.83	2200	.11	34.54
0500	.26	31.97	1100	.18	33.12	1700	.14	33.97	2300	.11	34.65
0600	.26	32.23	1200	.18	33.29	1800	.14	34.10	2400	.11	34.76
6-HR TOTAL	1.54			1.06			.81			.66	

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PR 8.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 255.0, Y = 377.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	1.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	13.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	20.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	24.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	24.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	24.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	24.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	24.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	24.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	24.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	24.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.81	4.77	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.63	1.26	1.87	3.60	6.09	9.05	11.59	16.81	21.57	24.40	26.40	27.96	29.23	30.30	31.23	32.05	32.79	33.45	34.06

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

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DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.61	6.16	1300	1.38	11.69	1900	.56	27.69
0200	.31	4.15	0800	.66	6.82	1400	2.03	13.72	2000	.52	28.20
0300	.32	4.47	0900	.73	7.56	1500	2.96	16.68	2100	.48	28.68
0400	.34	4.81	1000	.82	8.37	1600	6.09	22.77	2200	.44	29.13
0500	.36	5.17	1100	.91	9.29	1700	2.54	25.31	2300	.42	29.55
0600	.38	5.55	1200	1.03	10.31	1800	1.81	27.12	2400	.40	29.94
6-HR TOTAL	2.00			4.77			16.81			2.82	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.20	0700	.18	31.68	1300	.14	32.71	1900	.11	33.50
0200	.26	30.46	0800	.18	31.86	1400	.14	32.85	2000	.11	33.62
0300	.26	30.72	0900	.18	32.04	1500	.14	32.98	2100	.11	33.73
0400	.26	30.98	1000	.18	32.21	1600	.14	33.12	2200	.11	33.84
0500	.26	31.24	1100	.18	32.39	1700	.14	33.26	2300	.11	33.95
0600	.26	31.50	1200	.18	32.57	1800	.14	33.39	2400	.11	34.06
6-HR TOTAL	1.56			1.07			.82			.66	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 255.0, Y = 377.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	0.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	4.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	10.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	10.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	10.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	10.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	10.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	10.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	10.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	10.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	10.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.71	4.76	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

PR 8.OUT

R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.63	1.25	1.86	3.57	6.05	8.99	11.52	16.71	21.47	24.29	26.29	27.85	29.12	30.19	31.12	31.94	32.68	33.34	33.95

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.61	6.16	1300	1.37	11.68	1900	.56	27.58
0200	.31	4.15	0800	.66	6.82	1400	2.02	13.69	2000	.52	28.10
0300	.32	4.47	0900	.73	7.55	1500	2.94	16.63	2100	.48	28.57
0400	.34	4.81	1000	.81	8.37	1600	6.05	22.69	2200	.44	29.02
0500	.36	5.17	1100	.91	9.28	1700	2.52	25.21	2300	.42	29.44
0600	.38	5.55	1200	1.03	10.31	1800	1.80	27.01	2400	.40	29.83
6-HR TOTAL	2.00			4.76			16.71			2.82	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.09	0700	.18	31.57	1300	.14	32.60	1900	.11	33.39
0200	.26	30.35	0800	.18	31.75	1400	.14	32.74	2000	.11	33.51
0300	.26	30.61	0900	.18	31.93	1500	.14	32.87	2100	.11	33.62
0400	.26	30.87	1000	.18	32.10	1600	.14	33.01	2200	.11	33.73
0500	.26	31.13	1100	.18	32.28	1700	.14	33.15	2300	.11	33.84
0600	.26	31.39	1200	.18	32.46	1800	.14	33.28	2400	.11	33.95
6-HR TOTAL	1.56			1.07			.82			.66	

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

X	352.8	330.1	309.2	294.8	305.6	288.8	298.1	296.6	308.6	318.8
Y	439.5	425.4	374.5	331.2	266.6	244.3	211.3	200.4	181.5	185.0
X	322.0	356.2	365.0	366.5	386.2	392.3	377.5	398.6	380.8	385.9
Y	180.9	177.0	179.7	181.0	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5
X	352.8									
Y	441.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 255.0, Y = 377.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	6.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	21.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	45.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	62.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	64.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	64.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	64.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	64.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	64.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	64.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	64.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	64.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.81	4.85	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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PR 8.OUT

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.67	1.34	1.99	3.83	6.48	9.62	12.32	17.81	22.66	25.49	27.49	29.05	30.32	31.39	32.32	33.14	33.88	34.54	35.15

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PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.62	6.16	1300	1.44	11.83	1900	.57	28.77
0200	.31	4.15	0800	.67	6.83	1400	2.14	13.98	2000	.52	29.29
0300	.32	4.47	0900	.74	7.58	1500	3.14	17.11	2100	.48	29.77
0400	.34	4.81	1000	.83	8.41	1600	6.48	23.60	2200	.44	30.22
0500	.36	5.17	1100	.93	9.34	1700	2.70	26.29	2300	.42	30.64
0600	.38	5.55	1200	1.05	10.39	1800	1.91	28.20	2400	.40	31.03
6-HR TOTAL	2.00			4.85			17.81			2.83	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	31.29	0700	.18	32.77	1300	.14	33.80	1900	.11	34.60
0200	.26	31.55	0800	.18	32.95	1400	.14	33.94	2000	.11	34.71
0300	.26	31.81	0900	.18	33.13	1500	.14	34.07	2100	.11	34.82
0400	.26	32.07	1000	.18	33.31	1600	.14	34.21	2200	.11	34.93
0500	.26	32.33	1100	.18	33.48	1700	.14	34.35	2300	.11	35.04
0600	.26	32.59	1200	.18	33.66	1800	.14	34.48	2400	.11	35.15
6-HR TOTAL	1.56			1.07			.82			.66	

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                                                  PR 9.OUT
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 *                                       *                                        *                                       *
 *    PROBABLE MAXIMUM STORM  (HMR52)    *                                        *     U.S. ARMY CORPS OF ENGINEERS      *
 *            NOVEMBER 1982              *                                        *  THE HYDROLOGIC ENGINEERING CENTER    *
 *          REVISED  APRIL 91            *                                        *          609 SECOND STREET            *
 *                                       *                                        *       DAVIS, CALIFORNIA 95616         *
 *  RUN DATE 06/25/2008    TIME 10:14:33 *                                        *  (916) 551-1748 OR (FTS) 460-1748     *
 *                                       *                                        *                                       *
 *****************************************                                        *****************************************


                                  H     H  M     M  RRRRRR   5555555   22222
                                  H     H  MM   MM  R     R  5        2     2
                                  H     H  M M M M  R     R  5              2
                                  HHHHHHH  M  M  M  RRRRRR   555555        2
                                  H     H  M     M  R   R          5     2
                                  H     H  M     M  R    R   5     5   2
                                  H     H  M     M  R     R   55555   2222222
1                              HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                         PAGE  1

     LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

        1          ID    HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
        2          ID    ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
        3          ID    STORM CENTER WITHIN PALUXY RIVER BASIN AT PR9

        4          BN   CPNPP
        5          ID    CALCULATE STORM OVER ENTIRE AREA
        6          BS  .05827
        7          BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
        8          BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
        9          BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   85.17
       10          BX   76.93   85.92   75.56   77.81   82.63    84.8   66.09   56.79   57.55   49.52
       11          BX   51.04    40.8   40.05   54.76   65.82   47.95   62.30   35.02   36.56   63.69
       12          BX   73.84   72.72   84.03  121.92  126.58  133.09  136.39  145.99  138.58  143.21
       13          BX  127.17  137.74  151.01  157.40  164.07  168.68  175.89  172.76  198.29  200.78
       14          BX  217.93  233.49  243.97  277.06  294.55  315.41  331.83  340.98  349.67  353.27
       15          BX  349.84  354.39  367.19  367.42  386.16  392.28  377.46  398.65  380.84  385.89
       16          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
       17          BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
       18          BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
       19          BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  547.94
       20          BY  530.64   505.2  501.21  486.11  484.73  480.07  460.51  459.91  445.42  431.26
       21          BY  423.96  416.89  406.78  378.07  347.05  304.18  290.43  242.80  238.08  238.71
       22          BY  233.34  225.26  226.56  215.42   225.3   225.3  213.74  213.23  195.37   187.2
       23          BY   150.2  138.83  120.25  124.31  115.41   94.86   88.63   82.92   85.08   92.18
       24          BY   92.91  104.32  104.64  101.45  114.21  121.11  122.14  112.91  115.82  123.27
       25          BY  135.16  137.78  172.22  181.89  198.56  228.19  249.82  273.83  307.02  320.85
       26          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
       27          HO     215
       28          HP      10    29.7    35.3    40.0    45.0    48.0
       29          HP     200    22.2    26.8    32.0    36.0    39.6
       30          HP    1000    15.9    20.7    25.8    30.0    33.4
       31          HP    5000     9.3    13.0    17.8    22.0    25.0
       32          HP   10000     7.1    10.3    14.4    18.5    21.0
       33          HP   20000     5.1     8.3    11.5    15.0    17.8
       34          SA       0       0       3
       35          SC     262     328
       36          ST      60   0.308       0       1
       37          PU      ON

       38          BN  BASIN4
       39          BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
       40          BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
       41          BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   97.35
       42          BX   81.49   85.17   76.93   85.92   75.56   77.81   82.63    84.8   70.55   66.09
       43          BX   56.79   57.55   49.52   51.04    40.8   40.05   54.76   61.58   65.82   47.95
       44          BX   62.30   35.02   36.56   46.93   55.09   63.69 73.84     72.72   84.03   92.24
       45          BX   97.83  121.92  126.58  133.09  136.39  145.99  138.58  143.21  127.17  137.74
       46          BX  139.10  151.01  157.40  164.07  200.07  219.86  230.63  240.75  246.73  251.89
       47          BX  260.06  275.37  281.37  281.37  285.03   291.7  296.69  298.06  288.52  305.69
       48          BX  294.79  330.09
       49          BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
       50          BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
       51          BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  567.83
       52          BY  554.59  547.94  530.64   505.2  501.21  486.11  484.73  480.07  471.39  460.51
       53          BY  459.91  445.42  431.26  423.96  416.89  406.78  378.07  377.45  347.05  304.18
1                              HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                         PAGE  2

     LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

       54          BY  290.43  242.80  238.08  239.96  236.18  238.71  233.34  225.26  226.56  224.02
       55          BY  224.87  215.42   225.3   225.3  213.74  213.23  195.37   187.2   150.2  138.83
       56          BY   127.7  120.25  124.31  115.41  125.34  135.17  153.31  156.62  153.56  154.76
       57          BY  154.76  160.46  167.45  177.77  188.09  192.59  200.58  211.24     244  264.84
       58          BY   331.2  425.42

       59          BN  BASIN3
       60          ID    SUBBASIN3
       61          BX  296.69  291.69  285.04  281.37  281.37  275.37  260.06  251.89  246.63  240.75
       62          BX  230.63  225.36  219.86  200.07  164.07  168.68  175.89  172.76  198.29  200.78
       63          BX  217.93  233.49  243.97  247.19  253.98  261.76  272.19  277.06  287.20  290.72
       64          BX  294.55  306.52  308.51  303.88  308.46  307.93  308.87
       65          BY  200.58  192.59  188.09  177.77  167.45  160.46  154.76  154.76  153.56  156.62
       66          BY  153.31  145.58  135.17  125.34  115.41   94.86   88.63   82.92   85.08   92.18
       67          BY   92.91  104.32  104.64  101.71  106.79  105.33  107.43  101.45  107.36  107.36
       68          BY  114.21  114.52  116.39  128.54  141.75  169.52  181.13

       69          BN  BASIN2
       70          ID    SUBBASIN2
       71          BX  367.42  364.98  356.16  322.02  318.79  308.87  307.93  308.46  303.88  308.51
       72          BX  315.41  331.83  340.98  349.67  353.27  349.84  354.39  357.02  364.94  364.65
       73          BX  367.19
                                                  Page 1
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74          BY  181.89  179.72     177  180.58  183.71  181.13  169.52  141.75  128.54  116.39
75          BY  121.11  122.14  122.91  115.82  123.27  135.16  137.78     149  163.23  170.54
76          BY  172.22

77          BN  BASIN1
78          ID    SUBBASIN1
79          BX  352.79  330.08  309.24  294.79  305.63  288.78  298.06  296.58  308.64   318.8
80          BX  322.02  356.16  364.98  366.54  386.16  392.28  377.46  398.65  380.84  385.89
81          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
82          BX  352.83
83          BY  439.49  425.42  374.54   331.2  266.57  244.31  211.25  200.39  181.51  185.02
84          BY  180.91     177  179.72  181.01  198.56  228.19  249.82  273.83  307.02  320.85
85          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
86          BY  441.22

87          ZZ
1*****************************************                    *****************************************
*                                         *                    *                                       *
*    PROBABLE MAXIMUM STORM  (HMR52)      *                    *   U.S. ARMY CORPS OF ENGINEERS        *
*            NOVEMBER 1982                *                    *  THE HYDROLOGIC ENGINEERING CENTER    *
*          REVISED  APRIL 91              *                    *          609 SECOND STREET            *
*                                         *                    *       DAVIS, CALIFORNIA 95616         *
*  RUN DATE 06/25/2008    TIME 10:14:33   *                    *  (916) 551-1748 OR (FTS) 460-1748     *
*                                         *                    *                                       *
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
STORM CENTER WITHIN PALUXY RIVER BASIN AT PR9
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	DURATION 6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
200.	22.20	26.80	32.00	36.00	39.60
1000.	15.90	20.70	25.80	30.00	33.40
5000.	9.30	13.00	17.80	22.00	25.00
10000.	7.10	10.30	14.40	18.50	21.00
20000.	5.10	8.30	11.50	15.00	17.80

STORM AREA	PMP DEPTHS FOR 6-HOUR INCREMENTS											
10.	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61
25.	27.92	5.22	2.95	2.06	1.59	1.29	1.09	.94	.83	.74	.67	.61
50.	26.45	5.09	2.91	2.05	1.58	1.29	1.09	.94	.83	.74	.67	.61
100.	24.29	4.91	2.86	2.02	1.57	1.28	1.08	.94	.82	.74	.67	.61
175.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61
300.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
450.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61
700.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
1000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
1500.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60
2150.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60
3000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60
4500.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60
6500.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58
10000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55
15000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52
20000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50

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BOUNDARY COORDINATES FOR CPNPP

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	85.2
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	547.9
X	76.9	85.9	75.6	77.8	82.6	84.8	66.1	56.8	57.5	49.5
Y	530.6	505.2	501.2	486.1	484.7	480.1	460.5	459.9	445.4	431.3
X	51.0	40.8	40.0	54.8	65.8	48.0	62.3	35.0	36.6	63.7
Y	424.0	416.9	406.8	378.1	347.0	304.2	290.4	242.8	238.1	238.7
X	73.8	72.7	84.0	121.9	126.6	133.1	136.4	146.0	138.6	143.2
Y	233.3	225.3	226.6	215.4	225.3	225.3	213.7	213.2	195.4	187.2
X	127.2	137.7	151.0	157.4	164.1	168.7	175.9	172.8	198.3	200.8
Y	150.2	138.8	120.3	124.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	277.1	294.5	315.4	331.8	341.0	349.7	353.3
Y	92.9	104.3	104.6	101.4	114.2	121.1	122.1	112.9	115.8	123.3
X	349.8	354.4	367.2	367.4	386.2	392.3	377.5	398.6	380.8	385.9
Y	135.2	137.8	172.2	181.9	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5

SCALE = .0583 MILES PER COORDINATE UNIT

PR 9.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

1

VARYING STORM AREA SIZE AND FIXED ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
10.	165.	8.82	1.62	.90	.63	.48	.39	.33	.28	.25	.22	.20	.18	11.35
25.	165.	11.55	2.41	1.39	.97	.75	.61	.51	.44	.39	.35	.32	.29	15.35
50.	165.	13.60	2.99	1.76	1.24	.96	.78	.66	.57	.50	.45	.40	.37	18.35
100.	165.	15.23	3.50	2.10	1.49	1.15	.94	.80	.69	.61	.54	.49	.45	20.82
175.	165.	16.46	3.85	2.35	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51	22.66
300.	165.	17.30	4.27	2.58	1.84	1.43	1.17	.99	.86	.76	.68	.61	.56	24.15
450.	165.	17.64	4.55	2.71	1.93	1.50	1.22	1.04	.90	.79	.71	.64	.59	24.90
700.	165.	17.37	4.77	2.79	1.97	1.53	1.25	1.06	.92	.81	.72	.65	.60	24.93
1000.	165.	16.89	4.90	2.81	1.97	1.53	1.25	1.05	.91	.80	.72	.65	.59	24.59
1500.	165.	16.17	4.69	2.71	1.92	1.49	1.22	1.04	.90	.79	.71	.64	.59	23.57
2150.	165.	15.40	4.46	2.62	1.86	1.46	1.20	1.02	.88	.78	.70	.63	.58	22.48
3000.	165.	14.58	4.27	2.51	1.79	1.41	1.16	.99	.86	.76	.68	.62	.57	21.35
4500.	165.	13.75	4.09	2.44	1.76	1.39	1.15	.98	.86	.76	.68	.62	.57	20.28
6500.	165.	13.15	3.86	2.32	1.68	1.33	1.11	.95	.83	.73	.66	.60	.55	19.34
10000.	165.	12.30	3.56	2.15	1.56	1.25	1.04	.89	.78	.69	.62	.57	.52	18.01
15000.	165.	11.49	3.33	2.01	1.46	1.17	.98	.84	.73	.65	.59	.53	.49	16.83
20000.	165.	10.71	3.16	1.91	1.39	1.12	.93	.80	.70	.63	.56	.51	.47	15.78

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
700.	140.	16.54	4.60	2.71	1.91	1.48	1.21	1.03	.89	.78	.70	.63	.58	23.86
700.	150.	16.92	4.67	2.74	1.94	1.50	1.23	1.04	.90	.79	.71	.64	.59	24.33
700.	160.	17.27	4.74	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	24.79
700.	170.	17.43	4.78	2.80	1.98	1.53	1.25	1.06	.92	.81	.72	.66	.60	25.01
700.	180.	17.31	4.77	2.79	1.97	1.53	1.25	1.06	.92	.81	.72	.65	.60	24.87
700.	190.	16.95	4.70	2.76	1.95	1.51	1.24	1.05	.91	.80	.71	.65	.59	24.42
700.	200.	16.54	4.63	2.72	1.93	1.49	1.22	1.03	.89	.79	.71	.64	.58	23.89
700.	210.	16.10	4.55	2.68	1.90	1.47	1.20	1.02	.88	.78	.69	.63	.57	23.33
700.	220.	15.71	4.47	2.64	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.57	22.82
700.	230.	15.38	4.41	2.61	1.84	1.43	1.17	.99	.86	.75	.68	.61	.56	22.40
700.	240.	15.16	4.36	2.58	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	22.10
700.	250.	15.03	4.33	2.57	1.82	1.41	1.15	.97	.84	.74	.66	.60	.55	21.93
700.	260.	14.95	4.31	2.55	1.81	1.40	1.14	.97	.84	.74	.66	.60	.55	21.81
700.	270.	14.91	4.29	2.54	1.80	1.39	1.14	.96	.83	.74	.66	.60	.54	21.74
700.	280.	14.98	4.30	2.54	1.80	1.39	1.14	.96	.83	.74	.66	.60	.54	21.82
700.	290.	15.28	4.36	2.58	1.82	1.41	1.15	.98	.85	.75	.67	.60	.55	22.21
700.	300.	15.67	4.44	2.62	1.85	1.44	1.17	.99	.86	.76	.68	.61	.56	22.73
700.	310.	16.10	4.52	2.67	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	23.29
700.	165.	17.37	4.77	2.79	1.97	1.53	1.25	1.06	.91	.81	.72	.65	.60	24.92
700.	175.	17.43	4.79	2.80	1.98	1.54	1.26	1.06	.92	.81	.73	.66	.60	25.02

1

PROBABLE MAXIMUM STORM FOR CPNPP
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 262.0, Y = 328.0

ISOHYET	AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A	10.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B	25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C	50.	50.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D	100.	100.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E	175.	175.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F	300.	286.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G	450.	379.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H	700.	452.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I	1000.	497.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J	1500.	509.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K	2150.	509.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L	3000.	509.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M	4500.	509.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N	6500.	509.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O	10000.	509.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P	15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH			17.43	4.79	2.80	1.98	1.54	1.26	1.06	.92	.81	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02

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H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.64	1.28	1.91	3.67	6.24	9.32	11.99	17.43	22.22	25.02	27.00	28.53	29.79	30.85	31.77	32.58	33.31	33.96	34.56

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.45
0200	.10	.20	0800	.12	.84	1400	.15	1.63	2000	.21	2.66
0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.87
0400	.10	.40	1000	.12	1.08	1600	.15	1.94	2200	.21	3.08
0500	.10	.50	1100	.12	1.20	1700	.15	2.09	2300	.21	3.29
0600	.10	.60	1200	.12	1.32	1800	.15	2.24	2400	.21	3.50
6-HR TOTAL	.60			.73			.92			1.26	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.79	0700	.61	6.09	1300	1.42	11.69	1900	.56	28.26
0200	.30	4.10	0800	.66	6.75	1400	2.12	13.82	2000	.52	28.77
0300	.32	4.42	0900	.73	7.48	1500	3.08	16.90	2100	.47	29.25
0400	.34	4.75	1000	.82	8.30	1600	6.24	23.14	2200	.44	29.69
0500	.35	5.11	1100	.92	9.23	1700	2.66	25.80	2300	.41	30.10
0600	.38	5.48	1200	1.04	10.27	1800	1.89	27.70	2400	.39	30.50
6-HR TOTAL	1.98			4.79			17.43			2.80	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.75	0700	.18	32.21	1300	.14	33.23	1900	.11	34.02
0200	.26	31.01	0800	.18	32.39	1400	.14	33.37	2000	.11	34.13
0300	.26	31.27	0900	.18	32.56	1500	.14	33.50	2100	.11	34.23
0400	.26	31.52	1000	.18	32.74	1600	.14	33.64	2200	.11	34.34
0500	.26	31.78	1100	.18	32.92	1700	.14	33.77	2300	.11	34.45
0600	.26	32.03	1200	.18	33.10	1800	.14	33.91	2400	.11	34.56
6-HR TOTAL	1.54			1.06			.81			.66	

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BOUNDARY COORDINATES FOR BASIN4

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	97.3
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
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PR 9.OUT

STORM CENTER COORDINATES, X = 262.0, Y = 328.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	48.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	86.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	135.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	207.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	282.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	354.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	399.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	411.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	411.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	411.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	411.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	411.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	411.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.25	4.77	2.79	1.98	1.53	1.25	1.06	.92	.81	.72	.65	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.63	1.26	1.88	3.62	6.15	9.20	11.84	17.25	22.02	24.81	26.78	28.32	29.57	30.63	31.54	32.35	33.08	33.73	34.33

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.47	1900	.21	2.45
0200	.10	.20	0800	.12	.84	1400	.15	1.63	2000	.21	2.66
0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.86
0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.07
0500	.10	.50	1100	.12	1.20	1700	.15	2.09	2300	.21	3.28
0600	.10	.60	1200	.12	1.32	1800	.15	2.24	2400	.21	3.49
6-HR TOTAL	.60			.72			.92			1.25	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.78	0700	.61	6.07	1300	1.42	11.65	1900	.56	28.04
0200	.30	4.09	0800	.66	6.73	1400	2.11	13.76	2000	.51	28.56
0300	.32	4.40	0900	.73	7.46	1500	3.06	16.81	2100	.47	29.03
0400	.33	4.74	1000	.81	8.28	1600	6.15	22.96	2200	.44	29.47
0500	.35	5.09	1100	.92	9.19	1700	2.64	25.60	2300	.41	29.88
0600	.37	5.47	1200	1.04	10.23	1800	1.88	27.48	2400	.39	30.27
6-HR TOTAL	1.98			4.77			17.25			2.79	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	30.53	0700	.18	31.98	1300	.13	33.00	1900	.11	33.78
0200	.26	30.79	0800	.18	32.16	1400	.13	33.14	2000	.11	33.89
0300	.26	31.04	0900	.18	32.34	1500	.13	33.27	2100	.11	34.00
0400	.26	31.30	1000	.18	32.51	1600	.13	33.40	2200	.11	34.11
0500	.26	31.55	1100	.18	32.69	1700	.13	33.54	2300	.11	34.22
0600	.26	31.81	1200	.18	32.87	1800	.13	33.67	2400	.11	34.33
6-HR TOTAL	1.53			1.06			.81			.65	

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PR 9.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3

STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.

STORM CENTER COORDINATES, X = 262.0, Y = 328.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	1.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	9.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	18.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	22.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	24.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	24.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	24.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	24.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	24.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	24.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	24.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	24.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.76	4.84	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.67	1.33	1.98	3.82	6.46	9.59	12.28	17.76	22.60	25.42	27.43	28.99	30.26	31.33	32.26	33.08	33.82	34.48	35.09

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

PR 9.OUT

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.62	6.16	1300	1.43	11.82	1900	.57	28.71
0200	.31	4.15	0800	.67	6.83	1400	2.14	13.96	2000	.52	29.23
0300	.32	4.47	0900	.74	7.57	1500	3.13	17.09	2100	.48	29.71
0400	.34	4.81	1000	.83	8.40	1600	6.46	23.55	2200	.44	30.16
0500	.36	5.17	1100	.93	9.33	1700	2.69	26.24	2300	.42	30.57
0600	.38	5.55	1200	1.05	10.39	1800	1.91	28.14	2400	.40	30.97
6-HR TOTAL	2.00			4.84			17.76			2.83	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	31.23	0700	.18	32.71	1300	.14	33.74	1900	.11	34.53
0200	.26	31.49	0800	.18	32.89	1400	.14	33.88	2000	.11	34.64
0300	.26	31.75	0900	.18	33.06	1500	.14	34.01	2100	.11	34.75
0400	.26	32.01	1000	.18	33.24	1600	.14	34.15	2200	.11	34.87
0500	.26	32.27	1100	.18	33.42	1700	.14	34.29	2300	.11	34.98
0600	.26	32.53	1200	.18	33.60	1800	.14	34.42	2400	.11	35.09
6-HR TOTAL	1.56			1.07			.82			.66	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 262.0, Y = 328.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	2.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	9.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	10.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	10.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	10.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	10.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	10.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	10.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	10.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	10.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	10.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.62	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

PR 9.OUT

R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.66	1.32	1.97	3.79	6.41	9.51	12.18	17.62	22.45	25.28	27.29	28.84	30.11	31.19	32.12	32.94	33.67	34.34	34.94

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.62	6.16	1300	1.43	11.80	1900	.57	28.57
0200	.31	4.15	0800	.67	6.83	1400	2.12	13.93	2000	.52	29.09
0300	.32	4.47	0900	.74	7.57	1500	3.10	17.03	2100	.48	29.57
0400	.34	4.81	1000	.83	8.40	1600	6.41	23.44	2200	.44	30.01
0500	.36	5.17	1100	.93	9.33	1700	2.67	26.11	2300	.42	30.43
0600	.38	5.55	1200	1.05	10.38	1800	1.89	28.00	2400	.40	30.83
6-HR TOTAL	2.00			4.83			17.62			2.83	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	31.09	0700	.18	32.56	1300	.14	33.59	1900	.11	34.39
0200	.26	31.35	0800	.18	32.74	1400	.14	33.73	2000	.11	34.50
0300	.26	31.61	0900	.18	32.92	1500	.14	33.87	2100	.11	34.61
0400	.26	31.86	1000	.18	33.10	1600	.14	34.00	2200	.11	34.72
0500	.26	32.12	1100	.18	33.28	1700	.14	34.14	2300	.11	34.83
0600	.26	32.38	1200	.18	33.46	1800	.14	34.28	2400	.11	34.94
6-HR TOTAL	1.56			1.07			.82			.66	

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

X	352.8	330.1	309.2	294.8	305.6	288.8	298.1	296.6	308.6	318.8
Y	439.5	425.4	374.5	331.2	266.6	244.3	211.3	200.4	181.5	185.0
X	322.0	356.2	365.0	366.5	386.2	392.3	377.5	398.6	380.8	385.9
Y	180.9	177.0	179.7	181.0	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5
X	352.8									
Y	441.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 262.0, Y = 328.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	2.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	13.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	29.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	52.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	64.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	64.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	64.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	64.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	64.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	64.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	64.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	64.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	64.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		18.38	4.90	2.84	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

1

PR 9.OUT

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.69	1.38	2.06	3.96	6.71	9.94	12.73	18.38	23.28	26.11	28.12	29.67	30.94	32.02	32.95	33.77	34.50	35.17	35.77

1

PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.62	6.17	1300	1.47	11.92	1900	.57	29.39
0200	.31	4.15	0800	.68	6.84	1400	2.21	14.13	2000	.52	29.92
0300	.32	4.47	0900	.75	7.59	1500	3.24	17.36	2100	.48	30.40
0400	.34	4.81	1000	.84	8.43	1600	6.71	24.07	2200	.45	30.84
0500	.36	5.17	1100	.95	9.37	1700	2.79	26.85	2300	.42	31.26
0600	.38	5.55	1200	1.07	10.44	1800	1.97	28.82	2400	.40	31.66
6-HR TOTAL	2.00			4.90			18.38			2.84	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	31.92	0700	.18	33.39	1300	.14	34.42	1900	.11	35.22
0200	.26	32.18	0800	.18	33.57	1400	.14	34.56	2000	.11	35.33
0300	.26	32.44	0900	.18	33.75	1500	.14	34.70	2100	.11	35.44
0400	.26	32.70	1000	.18	33.93	1600	.14	34.84	2200	.11	35.55
0500	.26	32.95	1100	.18	34.11	1700	.14	34.97	2300	.11	35.66
0600	.26	33.21	1200	.18	34.29	1800	.14	35.11	2400	.11	35.77
6-HR TOTAL	1.56			1.07			.82			.66	

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1*****************************************                            *****************************************
 *                                       *                            *                                       *
 *   PROBABLE MAXIMUM STORM  (HMR52)     *                            *   U.S. ARMY CORPS OF ENGINEERS        *
 *            NOVEMBER 1982              *                            * THE HYDROLOGIC ENGINEERING CENTER     *
 *           REVISED  APRIL 91           *                            *        609 SECOND STREET              *
 *                                       *                            *      DAVIS, CALIFORNIA 95616          *
 * RUN DATE 06/25/2008     TIME 10:15:03 *                            * (916) 551-1748 OR (FTS) 460-1748      *
 *                                       *                            *                                       *
 *****************************************                            *****************************************



                                   H     H  M     M  RRRRRR    5555555   22222
                                   H     H  MM   MM  R     R   5        2     2
                                   H     H  M M M M  R     R   5              2
                                   HHHHHHH  M  M  M  RRRRRR    555555        2
                                   H     H  M     M  R   R           5     2
                                   H     H  M     M  R    R    5     5   2
                                   H     H  M     M  R     R    55555   2222222
1                               HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                                PAGE  1

          LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

             1            ID    HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
             2            ID    ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
             3            ID    STORM CENTER WITHIN PALUXY RIVER BASIN AT PR10

             4            BN   CPNPP
             5            ID    CALCULATE STORM OVER ENTIRE AREA
             6            BS  .05827
             7            BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
             8            BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
             9            BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   85.17
            10            BX   76.93   85.92   75.56   77.81   82.63    84.8   66.09   56.79   57.55   49.52
            11            BX   51.04    40.8   40.05   54.76   65.82   47.95   62.30   35.02   36.56   63.69
            12            BX   73.84   72.72   84.03  121.92  126.58  133.09  136.39  145.99  138.58  143.21
            13            BX  127.17  137.74  151.01  157.40  164.07  168.68  175.89  172.76  198.29  200.78
            14            BX  217.93  233.49  243.97  277.06  294.55  315.41  331.83  340.98  349.67  353.27
            15            BX  349.84  354.39  367.19  367.42  386.16  392.28  377.46  398.65  380.84  385.89
            16            BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
            17            BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
            18            BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
            19            BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  547.94
            20            BY  530.64   505.2  501.21  486.11  484.73  480.07  460.51  459.91  445.42  431.26
            21            BY  423.96  416.89  406.78  378.07  347.05  304.18  290.43  242.80  238.08  238.71
            22            BY  233.34  225.26  226.56  215.42   225.3   225.3  213.74  213.23  195.37   187.2
            23            BY   150.2  138.83  120.25  124.31  115.41   94.86   88.63   82.92   85.08   92.18
            24            BY   92.91  104.32  104.64  101.45  114.21  121.11  122.14  112.91  115.82  123.27
            25            BY  135.16  137.78  172.22  181.89  198.56  228.19  249.82  273.83  307.02  320.85
            26            BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
            27            HO     215
            28            HP      10    29.7    35.3    40.0    45.0    48.0
            29            HP     200    22.2    26.8    32.0    36.0    39.6
            30            HP    1000    15.9    20.7    25.8    30.0    33.4
            31            HP    5000     9.3    13.0    17.8    22.0    25.0
            32            HP   10000     7.1    10.3    14.4    18.5    21.0
            33            HP   20000     5.1     8.3    11.5    15.0    17.8
            34            SA       0       0       3
            35            SC     213     321
            36            ST      60   0.308       0       1
            37            PU      ON

            38            BN  BASIN4
            39            BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
            40            BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
            41            BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   97.35
            42            BX   81.49   85.17   76.93   85.92   75.56   77.81   82.63    84.8   70.55   66.09
            43            BX   56.79   57.55   49.52   51.04    40.8   40.05   54.76   61.58   65.82   47.95
            44            BX   62.30   35.02   36.56   46.93   55.09   63.69  73.84    72.72   84.03   92.24
            45            BX   97.83  121.92  126.58  133.09  136.39  145.99  138.58  143.21  127.17  137.74
            46            BX  139.10  151.01  157.40  164.07  200.07  219.86  230.63  240.75  246.73  251.89
            47            BX  260.06  275.37  281.37  281.37  285.03   291.7  296.69  298.06  288.52  305.69
            48            BX  294.79  330.09
            49            BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
            50            BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
            51            BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  567.83
            52            BY  554.59  547.94  530.64   505.2  501.21  486.11  484.73  480.07  471.39  460.51
            53            BY  459.91  445.42  431.26  423.96  416.89  406.78  378.07  377.45  347.05  304.18
1                               HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                                PAGE  2

          LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

            54            BY  290.43  242.80  238.08  239.96  236.18  238.71  233.34  225.26  226.56  224.02
            55            BY  224.87  215.42   225.3   225.3  213.74  213.23  195.37   187.2   150.2  138.83
            56            BY   127.7  120.25  124.31  115.41  125.34  135.17  153.31  156.62  153.56  154.76
            57            BY  154.76  160.46  167.45  177.77  188.09  192.59  200.58  211.24     244  264.84
            58            BY   331.2  425.42

            59            BN  BASIN3
            60            ID    SUBBASIN3
            61            BX  296.69  291.69  285.04  281.37  281.37  275.37  260.06  251.89  246.63  240.75
            62            BX  230.63  225.36  219.86  200.07  164.07  168.68  175.89  172.76  198.29  200.78
            63            BX  217.93  233.49  243.97  247.19  253.98  261.76  272.19  277.06  287.20  290.72
            64            BX  294.55  306.52  308.51  303.88  308.46  307.93  308.87
            65            BY  200.58  192.59  188.09  177.77  167.45  160.46  154.76  154.76  153.56  156.62
            66            BY  153.31  145.58  135.17  125.34  115.41   94.86   88.63   82.92   85.08   92.18
            67            BY   92.91  104.32  104.64  101.71  106.79  105.33  107.43  101.45  107.36  107.36
            68            BY  114.21  114.52  116.39  128.54  141.75  169.52  181.13

            69            BN  BASIN2
            70            ID    SUBBASIN2
            71            BX  367.42  364.98  356.16  322.02  318.79  308.87  307.93  308.46  303.88  308.51
            72            BX  315.41  331.83  340.98  349.67  353.27  349.84  354.39  357.02  364.94  364.65
            73            BX  367.19
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PR 10.OUT

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74          BY  181.89  179.72     177  180.58  183.71  181.13  169.52  141.75  128.54  116.39
75          BY  121.11  122.14  122.91  115.82  123.27  135.16  137.78     149  163.23  170.54
76          BY  172.22

77          BN  BASIN1
78          ID    SUBBASIN1
79          BX  352.79  330.08  309.24  294.79  305.63  288.78  298.06  296.58  308.64   318.8
80          BX  322.02  356.16  364.98  366.54  386.16  392.28  377.46  398.65  380.84  385.89
81          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
82          BX  352.83
83          BY  439.49  425.42  374.54   331.2  266.57  244.31  211.25  200.39  181.51  185.02
84          BY  180.91     177  179.72  181.01  198.56  228.19  249.82  273.83  307.02  320.85
85          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
86          BY  441.22

87          ZZ
1*****************************************                    *****************************************
*                                         *                    *                                       *
*    PROBABLE MAXIMUM STORM  (HMR52)      *                    *    U.S. ARMY CORPS OF ENGINEERS       *
*            NOVEMBER 1982                *                    *  THE HYDROLOGIC ENGINEERING CENTER    *
*          REVISED  APRIL 91              *                    *          609 SECOND STREET            *
*                                         *                    *       DAVIS, CALIFORNIA 95616         *
*  RUN DATE 06/25/2008    TIME 10:15:03   *                    *  (916) 551-1748 OR (FTS) 460-1748     *
*                                         *                    *                                       *
*****************************************                    *****************************************
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
STORM CENTER WITHIN PALUXY RIVER BASIN AT PR10
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	DURATION 6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
200.	22.20	26.80	32.00	36.00	39.60
1000.	15.90	20.70	25.80	30.00	33.40
5000.	9.30	13.00	17.80	22.00	25.00
10000.	7.10	10.30	14.40	18.50	21.00
20000.	5.10	8.30	11.50	15.00	17.80

STORM AREA	PMP DEPTHS FOR 6-HOUR INCREMENTS											
10.	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61
25.	27.92	5.22	2.95	2.06	1.59	1.29	1.09	.94	.83	.74	.67	.61
50.	26.45	5.09	2.91	2.05	1.58	1.29	1.09	.94	.83	.74	.67	.61
100.	24.29	4.91	2.86	2.02	1.57	1.28	1.08	.94	.82	.74	.67	.61
175.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61
300.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
450.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61
700.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
1000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
1500.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60
2150.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60
3000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60
4500.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60
6500.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58
10000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55
15000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52
20000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50

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BOUNDARY COORDINATES FOR CPNPP

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	85.2
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	547.9
X	76.9	85.9	75.6	77.8	82.6	84.8	66.1	56.8	57.5	49.5
Y	530.6	505.2	501.2	486.1	484.7	480.1	460.5	459.9	445.4	431.3
X	51.0	40.8	40.0	54.8	65.8	48.0	62.3	35.0	36.6	63.7
Y	424.0	416.9	406.8	378.1	347.0	304.2	290.4	242.8	238.1	238.7
X	73.8	72.7	84.0	121.9	126.6	133.1	136.4	146.0	138.6	143.2
Y	233.3	225.3	226.6	215.4	225.3	225.3	213.7	213.2	195.4	187.2
X	127.2	137.7	151.0	157.4	164.1	168.7	175.9	172.8	198.3	200.8
Y	150.2	138.8	120.3	124.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	277.1	294.5	315.4	331.8	341.0	349.7	353.3
Y	92.9	104.3	104.6	101.4	114.2	121.1	122.1	112.9	115.8	123.3
X	349.8	354.4	367.2	367.4	386.2	392.3	377.5	398.6	380.8	385.9
Y	135.2	137.8	172.2	181.9	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5

SCALE = .0583 MILES PER COORDINATE UNIT

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PR 10.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

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VARYING STORM AREA SIZE AND FIXED ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
10.	174.	8.98	1.65	.92	.64	.49	.40	.33	.29	.25	.23	.20	.19	11.54
25.	174.	11.73	2.45	1.41	.99	.76	.62	.52	.45	.40	.35	.32	.29	15.58
50.	174.	13.80	3.03	1.78	1.25	.97	.79	.67	.58	.51	.45	.41	.37	18.62
100.	174.	15.46	3.54	2.13	1.51	1.17	.95	.81	.70	.62	.55	.50	.45	21.13
175.	174.	16.72	3.90	2.38	1.70	1.32	1.08	.92	.79	.70	.63	.57	.52	23.01
300.	174.	17.60	4.33	2.62	1.87	1.45	1.19	1.01	.87	.77	.69	.62	.57	24.55
450.	174.	18.02	4.62	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	25.40
700.	174.	17.75	4.85	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.60	25.42
1000.	174.	17.26	4.98	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.60	25.09
1500.	174.	16.67	4.81	2.78	1.96	1.53	1.25	1.06	.92	.81	.73	.66	.60	24.25
2150.	174.	16.09	4.63	2.71	1.93	1.51	1.24	1.05	.91	.81	.72	.66	.60	23.43
3000.	174.	15.48	4.50	2.65	1.89	1.49	1.22	1.04	.91	.80	.72	.65	.60	22.64
4500.	174.	14.60	4.32	2.58	1.85	1.47	1.21	1.03	.90	.80	.72	.65	.60	21.50
6500.	174.	13.97	4.07	2.45	1.77	1.40	1.17	1.00	.87	.77	.69	.63	.58	20.49
10000.	174.	13.06	3.76	2.27	1.65	1.32	1.10	.94	.82	.73	.66	.60	.55	19.09
15000.	174.	12.19	3.52	2.12	1.54	1.23	1.03	.88	.77	.69	.62	.56	.52	17.83
20000.	174.	11.37	3.33	2.01	1.47	1.18	.98	.84	.74	.66	.59	.54	.50	16.72

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
700.	140.	16.39	4.56	2.68	1.89	1.47	1.20	1.02	.88	.78	.69	.63	.57	23.64
700.	150.	16.84	4.65	2.72	1.92	1.49	1.22	1.03	.89	.79	.70	.64	.58	24.20
700.	160.	17.34	4.75	2.78	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	24.87
700.	170.	17.67	4.83	2.82	1.99	1.55	1.26	1.07	.92	.82	.73	.66	.60	25.31
700.	180.	17.71	4.84	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	25.39
700.	190.	17.49	4.81	2.81	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60	25.11
700.	200.	17.08	4.74	2.78	1.97	1.53	1.25	1.05	.91	.81	.72	.65	.59	24.60
700.	210.	16.59	4.65	2.74	1.94	1.50	1.23	1.04	.90	.79	.71	.64	.59	23.97
700.	220.	16.12	4.56	2.69	1.90	1.48	1.21	1.02	.88	.78	.70	.63	.58	23.37
700.	230.	15.71	4.48	2.65	1.87	1.45	1.19	1.00	.87	.77	.69	.62	.57	22.83
700.	240.	15.39	4.41	2.61	1.84	1.43	1.17	.99	.86	.76	.68	.61	.56	22.41
700.	250.	15.19	4.36	2.58	1.83	1.42	1.16	.98	.85	.75	.67	.60	.55	22.13
700.	260.	15.03	4.32	2.56	1.81	1.40	1.15	.97	.84	.74	.66	.60	.55	21.90
700.	270.	14.92	4.28	2.54	1.79	1.39	1.14	.96	.83	.73	.66	.59	.54	21.74
700.	280.	14.94	4.27	2.53	1.79	1.39	1.13	.96	.83	.73	.65	.59	.54	21.74
700.	290.	15.19	4.33	2.55	1.80	1.40	1.14	.97	.84	.74	.66	.60	.55	22.07
700.	300.	15.53	4.39	2.59	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	22.51
700.	310.	15.94	4.47	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56	23.05
700.	169.	17.64	4.82	2.81	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60	25.27
700.	179.	17.74	4.85	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	25.42

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PROBABLE MAXIMUM STORM FOR CPNPP
STORM AREA = 700. SQ. MI., ORIENTATION = 174., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 213.0, Y = 321.0

ISOHYET	AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A	10.	10.	24.10	5.52	2.94	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
B	25.	25.	22.73	5.31	2.90	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
C	50.	50.	21.35	5.16	2.87	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
D	100.	100.	19.80	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
E	175.	175.	18.42	4.87	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
F	300.	286.	16.87	4.78	2.82	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
G	450.	391.	15.84	4.68	2.81	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
H	700.	501.	14.46	4.58	2.80	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
I	1000.	509.	10.85	3.76	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.51
J	1500.	509.	8.26	3.16	1.99	1.41	1.10	.89	.76	.66	.58	.52	.47	.43
K	2150.	509.	6.20	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L	3000.	509.	4.65	2.12	1.33	.94	.73	.60	.50	.44	.39	.34	.31	.28
M	4500.	509.	3.10	1.54	1.04	.74	.57	.47	.40	.34	.30	.27	.25	.22
N	6500.	509.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O	10000.	509.	.69	.43	.37	.26	.20	.16	.14	.12	.11	.10	.09	.08
P	15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH			17.75	4.85	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98

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PR 10.OUT

H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.19	.38	.56	1.12	2.24	4.40	6.41	10.85	14.61	17.01	18.71	20.03	21.11	22.02	22.81	23.51	24.13	24.70	25.21
J	.14	.28	.43	.85	1.69	3.32	4.84	8.26	11.42	13.41	14.83	15.92	16.82	17.57	18.23	18.81	19.32	19.79	20.22
K	.11	.21	.32	.63	1.25	2.46	3.59	6.20	8.80	10.45	11.63	12.53	13.28	13.91	14.45	14.93	15.36	15.75	16.10
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.77	8.10	9.04	9.77	10.37	10.87	11.31	11.69	12.04	12.35	12.63
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.64	5.69	6.43	7.00	7.47	7.87	8.21	8.52	8.79	9.03	9.26
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.66	3.38	3.89	4.29	4.61	4.89	5.12	5.33	5.52	5.69	5.84
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.48	2.58	2.67	2.74
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.67	1.33	1.98	3.81	6.45	9.57	12.26	17.75	22.59	25.42	27.42	28.97	30.24	31.31	32.24	33.06	33.79	34.45	35.06

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.96	2200	.21	3.11
0500	.10	.50	1100	.12	1.22	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.27	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.62	6.15	1300	1.44	11.81	1900	.57	28.69
0200	.31	4.14	0800	.67	6.82	1400	2.14	13.95	2000	.52	29.21
0300	.32	4.46	0900	.74	7.56	1500	3.13	17.08	2100	.48	29.69
0400	.34	4.80	1000	.83	8.39	1600	6.45	23.53	2200	.44	30.14
0500	.36	5.15	1100	.93	9.32	1700	2.69	26.22	2300	.42	30.55
0600	.38	5.53	1200	1.05	10.38	1800	1.91	28.12	2400	.40	30.95
6-HR TOTAL	2.00			4.85			17.75			2.83	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	31.21	0700	.18	32.68	1300	.14	33.71	1900	.11	34.50
0200	.26	31.47	0800	.18	32.86	1400	.14	33.85	2000	.11	34.61
0300	.26	31.73	0900	.18	33.04	1500	.14	33.98	2100	.11	34.72
0400	.26	31.99	1000	.18	33.22	1600	.14	34.12	2200	.11	34.83
0500	.26	32.24	1100	.18	33.40	1700	.14	34.26	2300	.11	34.95
0600	.26	32.50	1200	.18	33.57	1800	.14	34.39	2400	.11	35.06
6-HR TOTAL	1.55			1.07			.82			.66	

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BOUNDARY COORDINATES FOR BASIN4

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	97.3
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
STORM AREA = 700. SQ. MI., ORIENTATION = 174., PREFERRED ORIENTATION = 215.
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PR 10.OUT

STORM CENTER COORDINATES, X = 213.0, Y = 321.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	24.10	5.52	2.94	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
B 25.	25.	22.73	5.31	2.90	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
C 50.	50.	21.35	5.16	2.87	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
D 100.	100.	19.80	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
E 175.	168.	18.42	4.87	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
F 300.	249.	16.87	4.78	2.82	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
G 450.	329.	15.84	4.68	2.81	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
H 700.	407.	14.46	4.58	2.80	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	411.	10.85	3.76	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.51
J 1500.	411.	8.26	3.16	1.99	1.41	1.10	.89	.76	.66	.58	.52	.47	.43
K 2150.	411.	6.20	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	411.	4.65	2.12	1.33	.94	.73	.60	.50	.44	.39	.34	.31	.28
M 4500.	411.	3.10	1.54	1.04	.74	.57	.47	.40	.34	.30	.27	.25	.22
N 6500.	411.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	411.	.69	.43	.37	.26	.20	.16	.14	.12	.11	.10	.09	.08
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		18.09	4.88	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98
H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.19	.38	.56	1.12	2.24	4.40	6.41	10.85	14.61	17.01	18.71	20.03	21.11	22.02	22.81	23.51	24.13	24.70	25.21
J	.14	.28	.43	.85	1.69	3.32	4.84	8.26	11.42	13.41	14.83	15.92	16.82	17.57	18.23	18.81	19.32	19.79	20.22
K	.11	.21	.32	.63	1.25	2.46	3.59	6.20	8.80	10.45	11.63	12.53	13.28	13.91	14.45	14.93	15.36	15.75	16.10
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.77	8.10	9.04	9.77	10.37	10.87	11.31	11.69	12.04	12.35	12.63
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.64	5.69	6.43	7.00	7.47	7.87	8.21	8.52	8.79	9.03	9.26
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.66	3.38	3.89	4.29	4.61	4.89	5.12	5.33	5.52	5.69	5.84
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.48	2.58	2.67	2.74
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.68	1.36	2.02	3.89	6.59	9.78	12.52	18.09	22.97	25.80	27.80	29.36	30.62	31.70	32.63	33.44	34.18	34.84	35.45

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.96	2200	.21	3.11
0500	.10	.50	1100	.12	1.22	1700	.15	2.11	2300	.21	3.32
0600	.10	.61	1200	.12	1.34	1800	.15	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.30	3.83	0700	.62	6.16	1300	1.46	11.87	1900	.57	29.08
0200	.31	4.14	0800	.67	6.83	1400	2.18	14.05	2000	.52	29.60
0300	.32	4.46	0900	.75	7.58	1500	3.19	17.23	2100	.48	30.08
0400	.34	4.80	1000	.83	8.41	1600	6.59	23.82	2200	.45	30.52
0500	.36	5.16	1100	.94	9.35	1700	2.74	26.57	2300	.42	30.94
0600	.38	5.54	1200	1.06	10.41	1800	1.94	28.51	2400	.40	31.34
6-HR TOTAL	2.00			4.88			18.09			2.83	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	31.60	0700	.18	33.07	1300	.14	34.10	1900	.11	34.89
0200	.26	31.86	0800	.18	33.25	1400	.14	34.24	2000	.11	35.00
0300	.26	32.11	0900	.18	33.43	1500	.14	34.37	2100	.11	35.11
0400	.26	32.37	1000	.18	33.61	1600	.14	34.51	2200	.11	35.22
0500	.26	32.63	1100	.18	33.78	1700	.14	34.65	2300	.11	35.34
0600	.26	32.89	1200	.18	33.96	1800	.14	34.78	2400	.11	35.45
6-HR TOTAL	1.55			1.07			.82			.66	

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PR 10.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3

STORM AREA = 700. SQ. MI., ORIENTATION = 174., PREFERRED ORIENTATION = 215.

STORM CENTER COORDINATES, X = 213.0, Y = 321.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.10	5.52	2.94	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.73	5.31	2.90	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.35	5.16	2.87	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.80	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
E 175.	5.	18.42	4.87	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
F 300.	23.	16.87	4.78	2.82	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
G 450.	24.	15.84	4.68	2.81	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
H 700.	24.	14.46	4.58	2.80	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	24.	10.85	3.76	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.51
J 1500.	24.	8.26	3.16	1.99	1.41	1.10	.89	.76	.66	.58	.52	.47	.43
K 2150.	24.	6.20	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	24.	4.65	2.12	1.33	.94	.73	.60	.50	.44	.39	.34	.31	.28
M 4500.	24.	3.10	1.54	1.04	.74	.57	.47	.40	.34	.30	.27	.25	.22
N 6500.	24.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	24.	.69	.43	.37	.26	.20	.16	.14	.12	.11	.10	.09	.08
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.78	4.84	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98
H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.19	.38	.56	1.12	2.24	4.40	6.41	10.85	14.61	17.01	18.71	20.03	21.11	22.02	22.81	23.51	24.13	24.70	25.21
J	.14	.28	.43	.85	1.69	3.32	4.84	8.26	11.42	13.41	14.83	15.92	16.82	17.57	18.23	18.81	19.32	19.79	20.22
K	.11	.21	.32	.63	1.25	2.46	3.59	6.20	8.80	10.45	11.63	12.53	13.28	13.91	14.45	14.93	15.36	15.75	16.10
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.77	8.10	9.04	9.77	10.37	10.87	11.31	11.69	12.04	12.35	12.63
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.64	5.69	6.43	7.00	7.47	7.87	8.21	8.52	8.79	9.03	9.26
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.66	3.38	3.89	4.29	4.61	4.89	5.12	5.33	5.52	5.69	5.84
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.48	2.58	2.67	2.74
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.67	1.34	1.99	3.83	6.47	9.61	12.30	17.78	22.62	25.45	27.45	29.00	30.27	31.35	32.28	33.09	33.83	34.49	35.10

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.96	2200	.21	3.11
0500	.10	.50	1100	.12	1.22	1700	.15	2.11	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.15	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

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PR 10.OUT

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.62	6.16	1300	1.44	11.81	1900	.57	28.73
0200	.31	4.14	0800	.67	6.83	1400	2.14	13.95	2000	.52	29.25
0300	.32	4.46	0900	.74	7.57	1500	3.13	17.09	2100	.48	29.73
0400	.34	4.80	1000	.83	8.39	1600	6.47	23.56	2200	.44	30.17
0500	.36	5.16	1100	.93	9.32	1700	2.69	26.25	2300	.42	30.59
0600	.38	5.54	1200	1.05	10.38	1800	1.91	28.16	2400	.40	30.99
6-HR TOTAL	2.00			4.84			17.78			2.83	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	31.25	0700	.18	32.72	1300	.14	33.75	1900	.11	34.54
0200	.26	31.51	0800	.18	32.90	1400	.14	33.89	2000	.11	34.66
0300	.26	31.76	0900	.18	33.08	1500	.14	34.02	2100	.11	34.77
0400	.26	32.02	1000	.18	33.26	1600	.14	34.16	2200	.11	34.88
0500	.26	32.28	1100	.18	33.44	1700	.14	34.30	2300	.11	34.99
0600	.26	32.54	1200	.18	33.61	1800	.14	34.43	2400	.11	35.10
6-HR TOTAL	1.55			1.07			.82			.66	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 700. SQ. MI., ORIENTATION = 174., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 213.0, Y = 321.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.10	5.52	2.94	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.73	5.31	2.90	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.35	5.16	2.87	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.80	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
E 175.	0.	18.42	4.87	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
F 300.	1.	16.87	4.78	2.82	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
G 450.	7.	15.84	4.68	2.81	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
H 700.	10.	14.46	4.58	2.80	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	10.	10.85	3.76	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.51
J 1500.	10.	8.26	3.16	1.99	1.41	1.10	.89	.76	.66	.58	.52	.47	.43
K 2150.	10.	6.20	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	10.	4.65	2.12	1.33	.94	.73	.60	.50	.44	.39	.34	.31	.28
M 4500.	10.	3.10	1.54	1.04	.74	.57	.47	.40	.34	.30	.27	.25	.22
N 6500.	10.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	10.	.69	.43	.37	.26	.20	.16	.14	.12	.11	.10	.09	.08
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.91	4.69	2.81	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98
H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.19	.38	.56	1.12	2.24	4.40	6.41	10.85	14.61	17.01	18.71	20.03	21.11	22.02	22.81	23.51	24.13	24.70	25.21
J	.14	.28	.43	.85	1.69	3.32	4.84	8.26	11.42	13.41	14.83	15.92	16.82	17.57	18.23	18.81	19.32	19.79	20.22
K	.11	.21	.32	.63	1.25	2.46	3.59	6.20	8.80	10.45	11.63	12.53	13.28	13.91	14.45	14.93	15.36	15.75	16.10
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.77	8.10	9.04	9.77	10.37	10.87	11.31	11.69	12.04	12.35	12.63
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.64	5.69	6.43	7.00	7.47	7.87	8.21	8.52	8.79	9.03	9.26
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.66	3.38	3.89	4.29	4.61	4.89	5.12	5.33	5.52	5.69	5.84
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.48	2.58	2.67	2.74
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

PR 10.OUT

R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.59	1.18	1.76	3.39	5.75	8.55	10.95	15.91	20.61	23.42	25.42	26.97	28.24	29.32	30.24	31.06	31.80	32.46	33.07

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.96	2200	.21	3.11
0500	.10	.50	1100	.12	1.22	1700	.15	2.11	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.15	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.61	6.15	1300	1.32	11.56	1900	.56	26.71
0200	.31	4.14	0800	.66	6.81	1400	1.92	13.48	2000	.52	27.22
0300	.32	4.47	0900	.72	7.53	1500	2.80	16.28	2100	.48	27.70
0400	.34	4.80	1000	.80	8.33	1600	5.75	22.03	2200	.44	28.14
0500	.36	5.16	1100	.90	9.23	1700	2.40	24.43	2300	.42	28.56
0600	.38	5.54	1200	1.00	10.23	1800	1.72	26.15	2400	.40	28.96
6-HR TOTAL	2.00			4.69			15.91			2.81	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	29.22	0700	.18	30.69	1300	.14	31.72	1900	.11	32.51
0200	.26	29.48	0800	.18	30.87	1400	.14	31.86	2000	.11	32.63
0300	.26	29.73	0900	.18	31.05	1500	.14	31.99	2100	.11	32.74
0400	.26	29.99	1000	.18	31.23	1600	.14	32.13	2200	.11	32.85
0500	.26	30.25	1100	.18	31.41	1700	.14	32.27	2300	.11	32.96
0600	.26	30.51	1200	.18	31.58	1800	.14	32.40	2400	.11	33.07
6-HR TOTAL	1.55			1.07			.82			.66	

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

X	352.8	330.1	309.2	294.8	305.6	288.8	298.1	296.6	308.6	318.8
Y	439.5	425.4	374.5	331.2	266.6	244.3	211.3	200.4	181.5	185.0
X	322.0	356.2	365.0	366.5	386.2	392.3	377.5	398.6	380.8	385.9
Y	180.9	177.0	179.7	181.0	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5
X	352.8									
Y	441.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
STORM AREA = 700. SQ. MI., ORIENTATION = 174., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 213.0, Y = 321.0

ISOHYET	AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A	10.	0.	24.10	5.52	2.94	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
B	25.	0.	22.73	5.31	2.90	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
C	50.	0.	21.35	5.16	2.87	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
D	100.	0.	19.80	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
E	175.	0.	18.42	4.87	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
F	300.	13.	16.87	4.78	2.82	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
G	450.	32.	15.84	4.68	2.81	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
H	700.	59.	14.46	4.58	2.80	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61
I	1000.	64.	10.85	3.76	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.51
J	1500.	64.	8.26	3.16	1.99	1.41	1.10	.89	.76	.66	.58	.52	.47	.43
K	2150.	64.	6.20	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L	3000.	64.	4.65	2.12	1.33	.94	.73	.60	.50	.44	.39	.34	.31	.28
M	4500.	64.	3.10	1.54	1.04	.74	.57	.47	.40	.34	.30	.27	.25	.22
N	6500.	64.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O	10000.	64.	.69	.43	.37	.26	.20	.16	.14	.12	.11	.10	.09	.08
P	15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH			15.75	4.66	2.79	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60

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PR 10.OUT

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98
H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.19	.38	.56	1.12	2.24	4.40	6.41	10.85	14.61	17.01	18.71	20.03	21.11	22.02	22.81	23.51	24.13	24.70	25.21
J	.14	.28	.43	.85	1.69	3.32	4.84	8.26	11.42	13.41	14.83	15.92	16.82	17.57	18.23	18.81	19.32	19.79	20.22
K	.11	.21	.32	.63	1.25	2.46	3.59	6.20	8.80	10.45	11.63	12.53	13.28	13.91	14.45	14.93	15.36	15.75	16.10
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.77	8.10	9.04	9.77	10.37	10.87	11.31	11.69	12.04	12.35	12.63
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.64	5.69	6.43	7.00	7.47	7.87	8.21	8.52	8.79	9.03	9.26
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.66	3.38	3.89	4.29	4.61	4.89	5.12	5.33	5.52	5.69	5.84
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.48	2.58	2.67	2.74
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.58	1.15	1.72	3.31	5.62	8.40	10.80	15.75	20.41	23.21	25.20	26.74	28.00	29.07	29.99	30.81	31.54	32.19	32.80

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PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.46
0200	.10	.20	0800	.12	.84	1400	.15	1.64	2000	.21	2.67
0300	.10	.30	0900	.12	.97	1500	.15	1.79	2100	.21	2.89
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.10
0500	.10	.50	1100	.12	1.21	1700	.15	2.10	2300	.21	3.31
0600	.10	.60	1200	.12	1.33	1800	.15	2.25	2400	.21	3.52
6-HR TOTAL	.60			.73			.92			1.26	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.81	0700	.60	6.11	1300	1.32	11.48	1900	.56	26.48
0200	.31	4.12	0800	.65	6.76	1400	1.92	13.40	2000	.51	26.99
0300	.32	4.44	0900	.72	7.48	1500	2.78	16.19	2100	.47	27.46
0400	.34	4.77	1000	.80	8.28	1600	5.62	21.81	2200	.44	27.90
0500	.36	5.13	1100	.89	9.17	1700	2.39	24.20	2300	.41	28.32
0600	.38	5.51	1200	1.00	10.16	1800	1.72	25.92	2400	.40	28.71
6-HR TOTAL	1.99			4.66			15.75			2.79	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	28.97	0700	.18	30.43	1300	.14	31.46	1900	.11	32.25
0200	.26	29.23	0800	.18	30.61	1400	.14	31.59	2000	.11	32.36
0300	.26	29.48	0900	.18	30.79	1500	.14	31.73	2100	.11	32.47
0400	.26	29.74	1000	.18	30.97	1600	.14	31.87	2200	.11	32.58
0500	.26	30.00	1100	.18	31.15	1700	.14	32.00	2300	.11	32.69
0600	.26	30.26	1200	.18	31.32	1800	.14	32.14	2400	.11	32.80
6-HR TOTAL	1.54			1.07			.81			.66	

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1*****************************************                 *****************************************
 *                                       *                 *                                       *
 *   PROBABLE MAXIMUM STORM  (HMR52)     *                 *   U.S. ARMY CORPS OF ENGINEERS        *
 *            NOVEMBER 1982              *                 * THE HYDROLOGIC ENGINEERING CENTER     *
 *          REVISED  APRIL 91            *                 *          609 SECOND STREET            *
 *                                       *                 *        DAVIS, CALIFORNIA 95616        *
 * RUN DATE 08/05/2009    TIME 14:32:34  *                 * (916) 551-1748 OR (FTS) 460-1748      *
 *                                       *                 *                                       *
 *****************************************                 *****************************************


                              H     H  M     M  RRRRRR   5555555   22222
                              H     H  MM   MM  R     R  5        2     2
                              H     H  M M M M  R     R  5              2
                              HHHHHHH  M  M  M  RRRRRR   555555        2
                              H     H  M     M  R   R          5     2
                              H     H  M     M  R    R   5     5   2
                              H     H  M     M  R     R   55555   2222222
1                          HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                          PAGE  1

LINE           ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

   1           ID    HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
   2           ID    ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
   3           ID    STORM CENTER WITHIN PALUXY RIVER BASIN AT PR2

   4           BN   CPNPP
   5           ID    CALCULATE STORM OVER ENTIRE AREA
   6           BS  .05827
   7           BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
   8           BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
   9           BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   85.17
  10           BX   76.93   85.92   75.56   77.81   82.63    84.8   66.09   56.79   57.55   49.52
  11           BX   51.04    40.8   40.05   54.76   65.82   47.95   62.30   35.02   36.56   63.69
  12           BX   73.84   72.72   84.03  121.92  126.58  133.09  136.39  145.99  138.58  143.21
  13           BX  127.17  137.74  151.01  157.40  164.07  168.68  175.89  172.76  198.29  200.78
  14           BX  217.93  233.49  243.97  277.06  294.55  315.41  331.83  340.98  349.67  353.27
  15           BX  349.84  354.39  367.19  367.42  386.16  392.28  377.46  398.65  380.84  385.89
  16           BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
  17           BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
  18           BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
  19           BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  547.94
  20           BY  530.64   505.2  501.21  486.11  484.73  480.07  460.51  459.91  445.42  431.26
  21           BY  423.96  416.89  406.78  378.07  347.05  304.18  290.43  242.80  238.08  238.71
  22           BY  233.34  225.26  226.56  215.42   225.3   225.3  213.74  213.23  195.37   187.2
  23           BY   150.2  138.83  120.25  124.31  115.41   94.86   88.63   82.92   85.08   92.18
  24           BY   92.91  104.32  104.64  101.45  114.21  121.11  122.14  112.91  115.82  123.27
  25           BY  135.16  137.78  172.22  181.89  198.56  228.19  249.82  273.83  307.02  320.85
  26           BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
  27           HO     215
  28           HP      10    29.7    35.3    40.0    45.0    48.0
  29           HP     200    22.2    26.8    32.0    36.0    39.6
  30           HP    1000    15.9    20.7    25.8    30.0    33.4
  31           HP    5000     9.3    13.0    17.8    22.0    25.0
  32           HP   10000     7.1    10.3    14.4    18.5    21.0
  33           HP   20000     5.1     8.3    11.5    15.0    17.8
  34           SA       0       0       3
  35           SC     263     156
  36           ST      60   0.308       0       1
  37           PU      ON

  38           BN  BASIN4
  39           BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
  40           BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
  41           BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   97.35
  42           BX   81.49   85.17   76.93   85.92   75.56   77.81   82.63    84.8   70.55   66.09
  43           BX   56.79   57.55   49.52   51.04    40.8   40.05   54.76   61.58   65.82   47.95
  44           BX   62.30   35.02   36.56   46.93   55.09   63.69  73.84    72.72   84.03   92.24
  45           BX   97.83  121.92  126.58  133.09  136.39  145.99  138.58  143.21  127.17  137.74
  46           BX  139.10  151.01  157.40  164.07  200.07  219.86  230.63  240.75  246.73  251.89
  47           BX  260.06  275.37  281.37  281.37  285.03   291.7  296.69  298.06  288.52  305.69
  48           BX  294.79  330.09
  49           BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
  50           BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
  51           BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  567.83
  52           BY  554.59  547.94  530.64   505.2  501.21  486.11  484.73  480.07  471.39  460.51
  53           BY  459.91  445.42  431.26  423.96  416.89  406.78  378.07  377.45  347.05  304.18
1                          HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                          PAGE  2

LINE           ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  54           BY  290.43  242.80  238.08  239.96  236.18  238.71  233.34  225.26  226.56  224.02
  55           BY  224.87  215.42   225.3   225.3  213.74  213.23  195.37   187.2   150.2  138.83
  56           BY   127.7  120.25  124.31  115.41  125.34  135.17  153.31  156.62  153.56  154.76
  57           BY  154.76  160.46  167.45  177.77  188.09  192.59  200.58  211.24     244  264.84
  58           BY   331.2  425.42

  59           BN  BASIN3
  60           ID    SUBBASIN3
  61           BX  296.69  291.69  285.04  281.37  281.37  275.37  260.06  251.89  246.63  240.75
  62           BX  230.63  225.36  219.86  200.07  164.07  168.68  175.89  172.76  198.29  200.78
  63           BX  217.93  233.49  243.97  247.19  253.98  261.76  272.19  277.06  287.20  290.72
  64           BX  294.55  306.52  308.51  303.88  308.46  307.93  308.87
  65           BY  200.58  192.59  188.09  177.77  167.45  160.46  154.76  154.76  153.56  156.62
  66           BY  153.31  145.58  135.17  125.34  115.41   94.86   88.63   82.92   85.08   92.18
  67           BY   92.91  104.32  104.64  101.71  106.79  105.33  107.43  101.45  107.36  107.36
  68           BY  114.21  114.52  116.39  128.54  141.75  169.52  181.13

  69           BN  BASIN2
  70           ID    SUBBASIN2
  71           BX  367.42  364.98  356.16  322.02  318.79  308.87  307.93  308.46  303.88  308.51
  72           BX  315.41  331.83  340.98  349.67  353.27  349.84  354.39  357.02  364.94  364.65
  73           BX  367.19
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PR 11.OUT

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74          BY  181.89  179.72     177  180.58  183.71  181.13  169.52  141.75  128.54  116.39
75          BY  121.11  122.14  122.91  115.82  123.27  135.16  137.78     149  163.23  170.54
76          BY  172.22

77          BN  BASIN1
78          ID    SUBBASIN1
79          BX  352.79  330.08  309.24  294.79  305.63  288.78  298.06  296.58  308.64   318.8
80          BX  322.02  356.16  364.98  366.54  386.16  392.28  377.46  398.65  380.84  385.89
81          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
82          BX  352.83
83          BY  439.49  425.42  374.54   331.2  266.57  244.31  211.25  200.39  181.51  185.02
84          BY  180.91     177  179.72  181.01  198.56  228.19  249.82  273.83  307.02  320.85
85          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
86          BY  441.22

87          ZZ
1*****************************************                                    ****************************************
*                                         *                                    *                                      *
*    PROBABLE MAXIMUM STORM  (HMR52)      *                                    *    U.S. ARMY CORPS OF ENGINEERS      *
*            NOVEMBER 1982                *                                    *  THE HYDROLOGIC ENGINEERING CENTER   *
*          REVISED  APRIL 91              *                                    *          609 SECOND STREET           *
*                                         *                                    *        DAVIS, CALIFORNIA 95616       *
*  RUN DATE 08/05/2009    TIME 14:32:34   *                                    *  (916) 551-1748 OR (FTS) 460-1748    *
*                                         *                                    *                                      *
*****************************************                                    ****************************************
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
STORM CENTER WITHIN PALUXY RIVER BASIN AT PR2
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	DURATION 6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
200.	22.20	26.80	32.00	36.00	39.60
1000.	15.90	20.70	25.80	30.00	33.40
5000.	9.30	13.00	17.80	22.00	25.00
10000.	7.10	10.30	14.40	18.50	21.00
20000.	5.10	8.30	11.50	15.00	17.80

STORM AREA	PMP DEPTHS FOR 6-HOUR INCREMENTS											
10.	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61
25.	27.92	5.22	2.95	2.06	1.59	1.29	1.09	.94	.83	.74	.67	.61
50.	26.45	5.09	2.91	2.05	1.58	1.29	1.09	.94	.83	.74	.67	.61
100.	24.29	4.91	2.86	2.02	1.57	1.28	1.08	.94	.82	.74	.67	.61
175.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61
300.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
450.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61
700.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
1000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
1500.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60
2150.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60
3000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60
4500.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60
6500.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58
10000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55
15000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52
20000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50

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BOUNDARY COORDINATES FOR CPNPP

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	85.2
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	547.9
X	76.9	85.9	75.6	77.8	82.6	84.8	66.1	56.8	57.5	49.5
Y	530.6	505.2	501.2	486.1	484.7	480.1	460.5	459.9	445.4	431.3
X	51.0	40.8	40.0	54.8	65.8	48.0	62.3	35.0	36.6	63.7
Y	424.0	416.9	406.8	378.1	347.0	304.2	290.4	242.8	238.1	238.7
X	73.8	72.7	84.0	121.9	126.6	133.1	136.4	146.0	138.6	143.2
Y	233.3	225.3	226.6	215.4	225.3	225.3	213.7	213.2	195.4	187.2
X	127.2	137.7	151.0	157.4	164.1	168.7	175.9	172.8	198.3	200.8
Y	150.2	138.8	120.3	124.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	277.1	294.5	315.4	331.8	341.0	349.7	353.3
Y	92.9	104.3	104.6	101.4	114.2	121.1	122.1	112.9	115.8	123.3
X	349.8	354.4	367.2	367.4	386.2	392.3	377.5	398.6	380.8	385.9
Y	135.2	137.8	172.2	181.9	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5

SCALE = .0583 MILES PER COORDINATE UNIT

Page 2

PR 11.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

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VARYING STORM AREA SIZE AND FIXED ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
10.	169.	7.27	1.34	.74	.52	.40	.32	.27	.23	.21	.18	.17	.15	9.35
25.	169.	9.68	2.04	1.18	.83	.64	.52	.44	.38	.33	.30	.27	.24	12.90
50.	169.	11.39	2.57	1.52	1.07	.83	.67	.57	.49	.43	.39	.35	.32	15.48
100.	169.	12.79	3.04	1.84	1.30	1.01	.82	.70	.60	.53	.48	.43	.39	17.67
175.	169.	13.91	3.40	2.09	1.49	1.16	.95	.80	.70	.61	.55	.50	.45	19.41
300.	169.	14.83	3.85	2.36	1.68	1.31	1.07	.91	.78	.69	.62	.56	.51	21.04
450.	169.	15.52	4.21	2.55	1.81	1.41	1.15	.97	.84	.74	.67	.60	.55	22.28
700.	169.	15.86	4.57	2.72	1.93	1.49	1.22	1.03	.89	.79	.71	.64	.58	23.14
1000.	169.	15.77	4.81	2.80	1.97	1.53	1.25	1.05	.91	.80	.72	.65	.59	23.38
1500.	169.	15.23	4.65	2.73	1.94	1.51	1.24	1.05	.91	.80	.72	.65	.59	22.61
2150.	169.	14.59	4.46	2.65	1.89	1.48	1.22	1.03	.90	.79	.71	.64	.59	21.70
3000.	169.	13.90	4.30	2.56	1.84	1.45	1.19	1.01	.88	.78	.70	.63	.58	20.77
4500.	169.	13.12	4.12	2.49	1.80	1.42	1.18	1.01	.88	.78	.70	.63	.58	19.73
6500.	169.	12.56	3.89	2.37	1.72	1.37	1.13	.97	.85	.75	.67	.61	.56	18.82
10000.	169.	11.75	3.59	2.20	1.60	1.28	1.06	.91	.80	.71	.64	.58	.53	17.53
15000.	169.	10.98	3.36	2.05	1.50	1.20	1.00	.86	.75	.67	.60	.55	.50	16.39
20000.	169.	10.25	3.19	1.95	1.43	1.14	.96	.82	.72	.64	.58	.53	.48	15.39

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
1000.	140.	13.71	4.30	2.52	1.77	1.37	1.12	.95	.82	.72	.65	.59	.53	20.53
1000.	150.	14.51	4.49	2.62	1.85	1.43	1.17	.99	.85	.75	.67	.61	.56	21.61
1000.	160.	15.37	4.70	2.74	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	22.80
1000.	170.	15.79	4.81	2.80	1.98	1.53	1.25	1.06	.91	.81	.72	.65	.60	23.41
1000.	180.	15.65	4.80	2.80	1.97	1.53	1.25	1.05	.91	.80	.72	.65	.59	23.24
1000.	190.	14.95	4.64	2.72	1.91	1.48	1.21	1.02	.89	.78	.70	.63	.58	22.31
1000.	200.	14.05	4.44	2.60	1.84	1.42	1.16	.98	.85	.75	.67	.61	.55	21.10
1000.	210.	13.16	4.23	2.49	1.75	1.36	1.11	.94	.81	.71	.64	.58	.53	19.87
1000.	220.	12.38	4.03	2.38	1.68	1.30	1.06	.90	.78	.68	.61	.55	.51	18.80
1000.	230.	11.77	3.88	2.30	1.62	1.25	1.02	.86	.75	.66	.59	.53	.49	17.95
1000.	240.	11.35	3.76	2.23	1.57	1.22	.99	.84	.73	.64	.57	.52	.47	17.35
1000.	250.	11.12	3.70	2.20	1.55	1.20	.98	.83	.72	.63	.56	.51	.47	17.02
1000.	260.	10.98	3.65	2.17	1.53	1.19	.97	.82	.71	.62	.56	.50	.46	16.81
1000.	270.	10.94	3.63	2.16	1.52	1.18	.96	.81	.70	.62	.55	.50	.46	16.73
1000.	280.	11.07	3.65	2.17	1.53	1.18	.96	.81	.71	.62	.56	.50	.46	16.88
1000.	290.	11.52	3.77	2.23	1.57	1.22	.99	.84	.73	.64	.57	.52	.47	17.52
1000.	300.	12.14	3.92	2.31	1.63	1.26	1.03	.87	.75	.66	.59	.54	.49	18.38
1000.	310.	12.88	4.10	2.41	1.70	1.31	1.07	.91	.79	.69	.62	.56	.51	19.40
1000.	165.	15.63	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.71	.65	.59	23.17
1000.	175.	15.83	4.83	2.81	1.99	1.54	1.26	1.06	.92	.81	.72	.66	.60	23.48

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PROBABLE MAXIMUM STORM FOR CPNPP
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 263.0, Y = 156.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	22.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	39.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	70.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	114.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	183.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	256.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	355.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	450.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	509.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	509.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	509.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	509.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	509.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	509.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.83	4.83	2.81	1.99	1.54	1.26	1.06	.92	.81	.72	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66

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H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.54	1.07	1.60	3.08	5.29	8.13	10.61	15.83	20.67	23.48	25.47	27.01	28.26	29.32	30.24	31.05	31.77	32.43	33.03

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.45
0200	.10	.20	0800	.12	.84	1400	.15	1.63	2000	.21	2.66
0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.87
0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.08
0500	.10	.50	1100	.12	1.20	1700	.15	2.09	2300	.21	3.29
0600	.10	.60	1200	.12	1.32	1800	.15	2.24	2400	.21	3.50
6-HR TOTAL	.60			.72			.92			1.26	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.79	0700	.62	6.10	1300	1.39	11.70	1900	.57	26.72
0200	.31	4.10	0800	.67	6.77	1400	2.02	13.72	2000	.52	27.23
0300	.32	4.41	0900	.74	7.52	1500	2.84	16.56	2100	.48	27.71
0400	.34	4.75	1000	.83	8.35	1600	5.29	21.85	2200	.44	28.15
0500	.35	5.11	1100	.93	9.28	1700	2.48	24.34	2300	.42	28.57
0600	.38	5.48	1200	1.04	10.32	1800	1.81	26.15	2400	.40	28.96
6-HR TOTAL	1.99			4.83			15.83			2.81	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	29.22	0700	.18	30.68	1300	.14	31.70	1900	.11	32.48
0200	.26	29.48	0800	.18	30.86	1400	.14	31.83	2000	.11	32.59
0300	.26	29.73	0900	.18	31.03	1500	.14	31.97	2100	.11	32.70
0400	.26	29.99	1000	.18	31.21	1600	.14	32.10	2200	.11	32.81
0500	.26	30.25	1100	.18	31.39	1700	.14	32.24	2300	.11	32.92
0600	.26	30.50	1200	.18	31.56	1800	.14	32.37	2400	.11	33.03
6-HR TOTAL	1.54			1.06			.81			.66	

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BOUNDARY COORDINATES FOR BASIN4

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	97.3
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
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PR 11.OUT

STORM CENTER COORDINATES, X = 263.0, Y = 156.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	5.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	11.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	22.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	43.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	72.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	119.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	172.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	256.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	352.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	411.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	411.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	411.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	411.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	411.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	411.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.32	4.78	2.80	1.98	1.53	1.25	1.06	.92	.81	.72	.65	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.52	1.03	1.53	2.96	5.08	7.84	10.24	15.32	20.10	22.90	24.88	26.42	27.67	28.73	29.64	30.45	31.17	31.83	32.42

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.47	1900	.21	2.44
0200	.10	.20	0800	.12	.84	1400	.15	1.62	2000	.21	2.65
0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.86
0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.07
0500	.10	.50	1100	.12	1.20	1700	.15	2.08	2300	.21	3.28
0600	.10	.60	1200	.12	1.32	1800	.15	2.24	2400	.21	3.49
6-HR TOTAL	.60			.72			.92			1.25	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.78	0700	.61	6.08	1300	1.36	11.61	1900	.56	26.13
0200	.30	4.09	0800	.67	6.75	1400	1.96	13.56	2000	.52	26.65
0300	.32	4.40	0900	.74	7.49	1500	2.75	16.32	2100	.47	27.12
0400	.33	4.74	1000	.82	8.31	1600	5.08	21.40	2200	.44	27.56
0500	.35	5.09	1100	.92	9.22	1700	2.41	23.80	2300	.41	27.98
0600	.38	5.47	1200	1.02	10.25	1800	1.76	25.57	2400	.39	28.37
6-HR TOTAL	1.98			4.78			15.32			2.80	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	28.63	0700	.18	30.08	1300	.13	31.10	1900	.11	31.88
0200	.26	28.88	0800	.18	30.26	1400	.13	31.23	2000	.11	31.99
0300	.26	29.14	0900	.18	30.43	1500	.13	31.37	2100	.11	32.10
0400	.26	29.39	1000	.18	30.61	1600	.13	31.50	2200	.11	32.21
0500	.26	29.65	1100	.18	30.79	1700	.13	31.64	2300	.11	32.31
0600	.26	29.90	1200	.18	30.96	1800	.13	31.77	2400	.11	32.42
6-HR TOTAL	1.53			1.06			.81			.65	

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PR 11.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 263.0, Y = 156.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	5.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	11.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	17.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	19.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	22.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	24.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	24.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	24.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	24.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	24.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	24.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	24.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	24.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	24.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	24.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		21.36	5.39	2.92	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.76	1.51	2.25	4.32	7.38	11.21	14.56	21.36	26.74	29.66	31.66	33.22	34.49	35.56	36.49	37.30	38.04	38.70	39.30

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

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PR 11.OUT

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.66	6.20	1300	1.73	12.66	1900	.60	32.88
0200	.31	4.14	0800	.73	6.92	1400	2.68	15.33	2000	.54	33.42
0300	.32	4.46	0900	.82	7.74	1500	3.83	19.16	2100	.49	33.91
0400	.34	4.80	1000	.93	8.67	1600	7.38	26.54	2200	.45	34.37
0500	.36	5.16	1100	1.05	9.72	1700	3.36	29.90	2300	.42	34.79
0600	.38	5.54	1200	1.20	10.92	1800	2.38	32.28	2400	.40	35.20
6-HR TOTAL	2.01			5.39			21.36			2.92	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	35.45	0700	.18	36.93	1300	.14	37.96	1900	.11	38.75
0200	.26	35.71	0800	.18	37.11	1400	.14	38.09	2000	.11	38.86
0300	.26	35.97	0900	.18	37.29	1500	.14	38.23	2100	.11	38.97
0400	.26	36.23	1000	.18	37.46	1600	.14	38.37	2200	.11	39.08
0500	.26	36.49	1100	.18	37.64	1700	.14	38.50	2300	.11	39.19
0600	.26	36.75	1200	.18	37.82	1800	.14	38.64	2400	.11	39.30
6-HR TOTAL	1.55			1.07			.82			.66	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 263.0, Y = 156.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	4.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	7.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	10.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	10.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	10.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	10.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	10.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	10.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	10.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	10.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	10.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	10.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		18.64	5.08	2.86	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

PR 11.OUT

R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.65	1.30	1.93	3.72	6.36	9.71	12.63	18.64	23.72	26.59	28.59	30.15	31.42	32.49	33.42	34.24	34.97	35.63	36.23

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.64	6.17	1300	1.56	12.18	1900	.58	29.84
0200	.31	4.14	0800	.70	6.87	1400	2.35	14.53	2000	.53	30.37
0300	.32	4.46	0900	.78	7.65	1500	3.34	17.87	2100	.48	30.86
0400	.34	4.80	1000	.87	8.52	1600	6.36	24.24	2200	.45	31.31
0500	.36	5.16	1100	.99	9.50	1700	2.93	27.16	2300	.42	31.73
0600	.38	5.54	1200	1.12	10.62	1800	2.10	29.26	2400	.40	32.13
6-HR TOTAL	2.01			5.08			18.64			2.86	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	32.39	0700	.18	33.86	1300	.14	34.89	1900	.11	35.68
0200	.26	32.65	0800	.18	34.04	1400	.14	35.03	2000	.11	35.79
0300	.26	32.90	0900	.18	34.22	1500	.14	35.16	2100	.11	35.90
0400	.26	33.16	1000	.18	34.40	1600	.14	35.30	2200	.11	36.01
0500	.26	33.42	1100	.18	34.57	1700	.14	35.44	2300	.11	36.12
0600	.26	33.68	1200	.18	34.75	1800	.14	35.57	2400	.11	36.23
6-HR TOTAL	1.55			1.07			.82			.66	

1

SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

X	352.8	330.1	309.2	294.8	305.6	288.8	298.1	296.6	308.6	318.8
Y	439.5	425.4	374.5	331.2	266.6	244.3	211.3	200.4	181.5	185.0
X	322.0	356.2	365.0	366.5	386.2	392.3	377.5	398.6	380.8	385.9
Y	180.9	177.0	179.7	181.0	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5
X	352.8									
Y	441.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 263.0, Y = 156.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	4.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	13.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	30.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	49.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	64.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	64.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	64.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	64.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	64.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	64.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	64.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	64.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.58	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

1

PR 11.OUT

TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.58	1.14	1.70	3.28	5.61	8.58	11.17	16.58	21.50	24.34	26.35	27.90	29.17	30.24	31.17	31.99	32.72	33.38	33.99

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PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL	.60			.73			.93			1.27	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.83	0700	.63	6.16	1300	1.43	11.89	1900	.57	27.61
0200	.31	4.14	0800	.68	6.85	1400	2.10	13.99	2000	.52	28.14
0300	.32	4.46	0900	.76	7.61	1500	2.97	16.96	2100	.48	28.62
0400	.34	4.80	1000	.85	8.45	1600	5.61	22.57	2200	.45	29.06
0500	.36	5.16	1100	.95	9.40	1700	2.59	25.16	2300	.42	29.48
0600	.38	5.54	1200	1.06	10.46	1800	1.88	27.04	2400	.40	29.88
6-HR TOTAL	2.01			4.92			16.58			2.84	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.14	0700	.18	31.61	1300	.14	32.64	1900	.11	33.44
0200	.26	30.40	0800	.18	31.79	1400	.14	32.78	2000	.11	33.55
0300	.26	30.66	0900	.18	31.97	1500	.14	32.92	2100	.11	33.66
0400	.26	30.92	1000	.18	32.15	1600	.14	33.05	2200	.11	33.77
0500	.26	31.18	1100	.18	32.33	1700	.14	33.19	2300	.11	33.88
0600	.26	31.44	1200	.18	32.51	1800	.14	33.33	2400	.11	33.99
6-HR TOTAL	1.55			1.07			.82			.66	

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                                                   PR Y.OUT
1*****************************************                          *****************************************
 *                                       *                          *                                       *
 *   PROBABLE MAXIMUM STORM  (HMR52)     *                          *    U.S. ARMY CORPS OF ENGINEERS       *
 *            NOVEMBER 1982              *                          *  THE HYDROLOGIC ENGINEERING CENTER    *
 *          REVISED  APRIL 91            *                          *         609 SECOND STREET             *
 *                                       *                          *       DAVIS, CALIFORNIA 95616         *
 * RUN DATE 06/25/2008    TIME 10:16:06  *                          *  (916) 551-1748 OR (FTS) 460-1748     *
 *                                       *                          *                                       *
 *****************************************                          *****************************************



                                   H     H  M     M  RRRRRR   5555555   22222
                                   H     H  MM   MM  R     R  5        2     2
                                   H     H  M M M M  R     R  5              2
                                   HHHHHHH  M  M  M  RRRRRR   555555        2
                                   H     H  M     M  R   R          5     2
                                   H     H  M     M  R    R   5     5   2
                                   H     H  M     M  R     R   55555   2222222
1                               HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                            PAGE  1

          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

             1          ID    HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
             2          ID    ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
             3          ID    STORM CENTER WITHIN PALUXY RIVER BASIN AT PR Y

             4          BN   CPNPP
             5          ID    CALCULATE STORM OVER ENTIRE AREA
             6          BS  .05827
             7          BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
             8          BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
             9          BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   85.17
            10          BX   76.93   85.92   75.56   77.81   82.63    84.8   66.09   56.79   57.55   49.52
            11          BX   51.04    40.8   40.05   54.76   65.82   47.95   62.30   35.02   36.56   63.69
            12          BX   73.84   72.72   84.03  121.92  126.58  133.09  136.39  145.99  138.58  143.21
            13          BX  127.17  137.74  151.01  157.40  164.07  168.68  175.89  172.76  198.29  200.78
            14          BX  217.93  233.49  243.97  277.06  294.55  315.41  331.83  340.98  349.67  353.27
            15          BX  349.84  354.39  367.19  367.42  386.16  392.28  377.46  398.65  380.84  385.89
            16          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
            17          BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
            18          BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
            19          BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  547.94
            20          BY  530.64   505.2  501.21  486.11  484.73  480.07  460.51  459.91  445.42  431.26
            21          BY  423.96  416.89  406.78  378.07  347.05  304.18  290.43  242.80  238.08  238.71
            22          BY  233.34  225.26  226.56  215.42   225.3   225.3  213.74  213.23  195.37   187.2
            23          BY   150.2  138.83  120.25  124.31  115.41   94.86   88.63   82.92   85.08   92.18
            24          BY   92.91  104.32  104.64  101.45  114.21  121.11  122.14  112.91  115.82  123.27
            25          BY  135.16  137.78  172.22  181.89  198.56  228.19  249.82  273.83  307.02  320.85
            26          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
            27          HO     215
            28          HP      10    29.7    35.3    40.0    45.0    48.0
            29          HP     200    22.2    26.8    32.0    36.0    39.6
            30          HP    1000    15.9    20.7    25.8    30.0    33.4
            31          HP    5000     9.3    13.0    17.8    22.0    25.0
            32          HP   10000     7.1    10.3    14.4    18.5    21.0
            33          HP   20000     5.1     8.3    11.5    15.0    17.8
            34          SA       0       0       3
            35          SC     205     371
            36          ST      60   0.308       0       1
            37          PU      ON

            38          BN  BASIN4
            39          BX  352.83  348.27  349.06  345.02  347.40  339.30  323.65  325.81  317.65  314.81
            40          BX  317.41  315.60  306.50  302.11  295.40  295.40  289.69  284.22  279.71  267.30
            41          BX  258.73  236.42  226.97  213.99  161.34  123.53  111.32   96.22  102.62   97.35
            42          BX   81.49   85.17   76.93   85.92   75.56   77.81   82.63    84.8   70.55   66.09
            43          BX   56.79   57.55   49.52   51.04    40.8   40.05   54.76   61.58   65.82   47.95
            44          BX   62.30   35.02   36.56   46.93   55.09   63.69 73.84     72.72   84.03   92.24
            45          BX   97.83  121.92  126.58  133.09  136.39  145.99  138.58  143.21  127.17  137.74
            46          BX  139.10  151.01  157.40  164.07  200.07  219.86  230.63  240.75  246.73  251.89
            47          BX  260.06  275.37  281.37  281.37  285.03   291.7  296.69  298.06  288.52  305.69
            48          BX  294.79  330.09
            49          BY  441.55  481.91  512.52  515.46  523.63  523.40  550.24  562.78  565.85  571.38
            50          BY  574.39  579.23  582.39  600.03  600.45  611.99  617.28  639.95  643.97  640.65
            51          BY  651.35  648.71  677.81  664.96  685.28  676.86  664.03  593.06   588.7  567.83
            52          BY  554.59  547.94  530.64   505.2  501.21  486.11  484.73  480.07  471.39  460.51
            53          BY  459.91  445.42  431.26  423.96  416.89  406.78  378.07  377.45  347.05  304.18
1                               HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA                            PAGE  2

          LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

            54          BY  290.43  242.80  238.08  239.96  236.18  238.71  233.34  225.26  226.56  224.02
            55          BY  224.87  215.42   225.3   225.3  213.74  213.23  195.37   187.2   150.2  138.83
            56          BY   127.7  120.25  124.31  115.41  125.34  135.17  153.31  156.62  153.56  154.76
            57          BY  154.76  160.46  167.45  177.77  188.09  192.59  200.58  211.24     244  264.84
            58          BY   331.2  425.42

            59          BN  BASIN3
            60          ID    SUBBASIN3
            61          BX  296.69  291.69  285.04  281.37  281.37  275.37  260.06  251.89  246.63  240.75
            62          BX  230.63  225.36  219.86  200.07  164.07  168.68  175.89  172.76  198.29  200.78
            63          BX  217.93  233.49  243.97  247.19  253.98  261.76  272.19  277.06  287.20  290.72
            64          BX  294.55  306.52  308.51  303.88  308.46  307.93  308.87
            65          BY  200.58  192.59  188.09  177.77  167.45  160.46  154.76  154.76  153.56  156.62
            66          BY  153.31  145.58  135.17  125.34  115.41   94.86   88.63   82.92   85.08   92.18
            67          BY   92.91  104.32  104.64  101.71  106.79  105.33  107.43  101.45  107.36  107.36
            68          BY  114.21  114.52  116.39  128.54  141.75  169.52  181.13

            69          BN  BASIN2
            70          ID    SUBBASIN2
            71          BX  367.42  364.98  356.16  322.02  318.79  308.87  307.93  308.46  303.88  308.51
            72          BX  315.41  331.83  340.98  349.67  353.27  349.84  354.39  357.02  364.94  364.65
            73          BX  367.19
                                                  Page 1
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PR Y.OUT

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74          BY  181.89  179.72     177  180.58  183.71  181.13  169.52  141.75  128.54  116.39
75          BY  121.11  122.14  122.91  115.82  123.27  135.16  137.78     149  163.23  170.54
76          BY  172.22

77          BN  BASIN1
78          ID    SUBBASIN1
79          BX  352.79  330.08  309.24  294.79  305.63  288.78  298.06  296.58  308.64   318.8
80          BX  322.02  356.16  364.98  366.54  386.16  392.28  377.46  398.65  380.84  385.89
81          BX  375.51   379.9  370.35  371.38   365.4  356.46  349.53  353.98  353.13  356.42
82          BX  352.83
83          BY  439.49  425.42  374.54   331.2  266.57  244.31  211.25  200.39  181.51  185.02
84          BY  180.91     177  179.72  181.01  198.56  228.19  249.82  273.83  307.02  320.85
85          BY  358.76   370.7  385.48  393.09  396.82  395.52  405.43   411.9   420.9  429.53
86          BY  441.22

87          ZZ
1*****************************************
*                                       *
*    PROBABLE MAXIMUM STORM  (HMR52)    *
*            NOVEMBER 1982              *
*          REVISED  APRIL 91            *
*                                       *
*  RUN DATE 06/25/2008    TIME 10:16:06 *
*                                       *
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*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*  THE HYDROLOGIC ENGINEERING CENTER    *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*  (916) 551-1748 OR (FTS) 460-1748     *
*                                       *
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
STORM CENTER WITHIN PALUXY RIVER BASIN AT PR Y
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	DURATION 6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
200.	22.20	26.80	32.00	36.00	39.60
1000.	15.90	20.70	25.80	30.00	33.40
5000.	9.30	13.00	17.80	22.00	25.00
10000.	7.10	10.30	14.40	18.50	21.00
20000.	5.10	8.30	11.50	15.00	17.80

STORM AREA	PMP DEPTHS FOR 6-HOUR INCREMENTS											
10.	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61
25.	27.92	5.22	2.95	2.06	1.59	1.29	1.09	.94	.83	.74	.67	.61
50.	26.45	5.09	2.91	2.05	1.58	1.29	1.09	.94	.83	.74	.67	.61
100.	24.29	4.91	2.86	2.02	1.57	1.28	1.08	.94	.82	.74	.67	.61
175.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61
300.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
450.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61
700.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
1000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
1500.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60
2150.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60
3000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60
4500.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60
6500.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58
10000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55
15000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52
20000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50

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BOUNDARY COORDINATES FOR CPNPP

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	85.2
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	547.9
X	76.9	85.9	75.6	77.8	82.6	84.8	66.1	56.8	57.5	49.5
Y	530.6	505.2	501.2	486.1	484.7	480.1	460.5	459.9	445.4	431.3
X	51.0	40.8	40.0	54.8	65.8	48.0	62.3	35.0	36.6	63.7
Y	424.0	416.9	406.8	378.1	347.0	304.2	290.4	242.8	238.1	238.7
X	73.8	72.7	84.0	121.9	126.6	133.1	136.4	146.0	138.6	143.2
Y	233.3	225.3	226.6	215.4	225.3	225.3	213.7	213.2	195.4	187.2
X	127.2	137.7	151.0	157.4	164.1	168.7	175.9	172.8	198.3	200.8
Y	150.2	138.8	120.3	124.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	277.1	294.5	315.4	331.8	341.0	349.7	353.3
Y	92.9	104.3	104.6	101.4	114.2	121.1	122.1	112.9	115.8	123.3
X	349.8	354.4	367.2	367.4	386.2	392.3	377.5	398.6	380.8	385.9
Y	135.2	137.8	172.2	181.9	198.6	228.2	249.8	273.8	307.0	320.9
X	375.5	379.9	370.4	371.4	365.4	356.5	349.5	354.0	353.1	356.4
Y	358.8	370.7	385.5	393.1	396.8	395.5	405.4	411.9	420.9	429.5

SCALE = .0583 MILES PER COORDINATE UNIT

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PR Y.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

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VARYING STORM AREA SIZE AND FIXED ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
10.	172.	9.08	1.67	.93	.64	.49	.40	.34	.29	.26	.23	.21	.19	11.68
25.	172.	11.85	2.47	1.42	1.00	.77	.62	.53	.45	.40	.36	.32	.29	15.75
50.	172.	13.96	3.06	1.80	1.27	.98	.80	.67	.58	.51	.46	.41	.38	18.82
100.	172.	15.63	3.58	2.15	1.52	1.18	.96	.81	.70	.62	.56	.50	.46	21.36
175.	172.	16.93	3.94	2.41	1.72	1.34	1.09	.93	.80	.71	.63	.57	.52	23.29
300.	172.	17.85	4.37	2.64	1.89	1.47	1.20	1.01	.88	.78	.69	.63	.57	24.87
450.	172.	18.18	4.64	2.76	1.97	1.53	1.25	1.06	.92	.81	.72	.65	.60	25.59
700.	172.	17.79	4.84	2.82	2.00	1.55	1.26	1.07	.93	.82	.73	.66	.60	25.46
1000.	172.	17.29	4.97	2.84	2.00	1.55	1.26	1.07	.92	.81	.73	.66	.60	25.11
1500.	172.	16.66	4.79	2.76	1.95	1.52	1.25	1.06	.92	.81	.72	.65	.60	24.21
2150.	172.	16.04	4.60	2.69	1.91	1.50	1.23	1.04	.91	.80	.72	.65	.59	23.34
3000.	172.	15.38	4.46	2.62	1.87	1.47	1.21	1.03	.90	.79	.71	.64	.59	22.46
4500.	172.	14.50	4.28	2.55	1.83	1.45	1.20	1.02	.89	.79	.71	.64	.59	21.33
6500.	172.	13.87	4.03	2.42	1.75	1.39	1.15	.98	.86	.76	.69	.62	.57	20.33
10000.	172.	12.97	3.72	2.24	1.63	1.30	1.08	.93	.81	.72	.65	.59	.54	18.93
15000.	172.	12.11	3.48	2.10	1.52	1.22	1.02	.87	.76	.68	.61	.56	.51	17.69
20000.	172.	11.29	3.30	1.99	1.45	1.16	.97	.83	.73	.65	.59	.53	.49	16.58

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN-TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
450.	140.	16.92	4.40	2.63	1.87	1.45	1.19	1.01	.87	.77	.69	.62	.57	23.96
450.	150.	17.44	4.50	2.69	1.91	1.48	1.21	1.03	.89	.78	.70	.64	.58	24.63
450.	160.	17.91	4.59	2.74	1.95	1.51	1.24	1.05	.91	.80	.72	.65	.59	25.24
450.	170.	18.16	4.64	2.76	1.96	1.53	1.25	1.06	.91	.81	.72	.65	.60	25.56
450.	180.	18.08	4.63	2.76	1.96	1.52	1.24	1.05	.91	.81	.72	.65	.60	25.47
450.	190.	17.76	4.57	2.73	1.94	1.51	1.23	1.04	.90	.80	.71	.64	.59	25.06
450.	200.	17.28	4.48	2.68	1.90	1.48	1.21	1.02	.89	.78	.70	.63	.58	24.44
450.	210.	16.71	4.38	2.62	1.86	1.45	1.18	1.00	.87	.77	.68	.62	.57	23.71
450.	220.	16.18	4.27	2.56	1.82	1.41	1.16	.98	.85	.75	.67	.61	.55	23.01
450.	230.	15.72	4.18	2.51	1.78	1.39	1.13	.96	.83	.73	.66	.59	.54	22.42
450.	240.	15.37	4.11	2.47	1.76	1.36	1.12	.94	.82	.72	.65	.58	.53	21.95
450.	250.	15.15	4.06	2.45	1.74	1.35	1.11	.93	.81	.71	.64	.58	.53	21.67
450.	260.	15.05	4.04	2.44	1.73	1.34	1.10	.93	.81	.71	.64	.58	.53	21.52
450.	270.	15.04	4.04	2.44	1.73	1.34	1.10	.93	.80	.71	.64	.57	.52	21.51
450.	280.	15.17	4.06	2.45	1.74	1.35	1.10	.93	.81	.71	.64	.58	.53	21.68
450.	290.	15.46	4.12	2.48	1.76	1.37	1.12	.95	.82	.72	.65	.59	.53	22.07
450.	300.	15.87	4.20	2.52	1.79	1.39	1.14	.96	.83	.74	.66	.60	.54	22.59
450.	310.	16.37	4.30	2.58	1.83	1.42	1.16	.98	.85	.75	.67	.61	.56	23.25
450.	167.	18.10	4.63	2.76	1.96	1.52	1.24	1.05	.91	.81	.72	.65	.60	25.49
450.	177.	18.15	4.64	2.76	1.96	1.53	1.25	1.06	.91	.81	.72	.65	.60	25.56

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PROBABLE MAXIMUM STORM FOR CPNPP

STORM AREA = 450. SQ. MI., ORIENTATION = 172., PREFERRED ORIENTATION = 215.

STORM CENTER COORDINATES, X = 205.0, Y = 371.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	25.01	5.40	2.92	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
B 25.	25.	23.49	5.21	2.88	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
C 50.	50.	21.98	5.02	2.85	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
D 100.	100.	20.46	4.88	2.82	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
E 175.	175.	19.14	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
F 300.	295.	17.62	4.64	2.80	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
G 450.	419.	16.29	4.54	2.79	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
H 700.	499.	11.94	3.70	2.36	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51
I 1000.	509.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	509.	7.20	2.61	1.69	1.20	.93	.76	.65	.56	.49	.44	.40	.36
K 2150.	509.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	509.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	509.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	509.	1.52	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	509.	.57	.22	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		18.18	4.64	2.76	1.97	1.53	1.25	1.06	.92	.81	.72	.65	.60

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TIME INTERVAL = 60. MINUTES

1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.03	10.04	14.33	17.97	25.01	30.41	33.33	35.33	36.89	38.16	39.23	40.16	40.99	41.72	42.39	43.00
B	.98	1.96	2.93	5.63	9.39	13.42	16.84	23.49	28.70	31.59	33.59	35.14	36.41	37.49	38.42	39.24	39.98	40.64	41.25
C	.92	1.83	2.72	5.24	8.75	12.52	15.72	21.98	27.00	29.85	31.85	33.40	34.67	35.75	36.68	37.50	38.24	38.90	39.51
D	.85	1.69	2.52	4.85	8.10	11.62	14.59	20.46	25.34	28.16	30.16	31.72	32.99	34.06	34.99	35.82	36.55	37.22	37.82
E	.79	1.57	2.34	4.51	7.54	10.83	13.61	19.14	23.89	26.70	28.70	30.26	31.53	32.60	33.53	34.36	35.09	35.76	36.36
F	.72	1.44	2.15	4.13	6.91	9.93	12.49	17.62	22.26	25.06	27.06	28.61	29.88	30.96	31.89	32.71	33.45	34.11	34.72
G	.67	1.33	1.98	3.80	6.36	9.16	11.51	16.29	20.84	23.63	25.63	27.18	28.45	29.53	30.46	31.28	32.02	32.68	33.29

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PR Y.OUT

H	.21	.42	.62	1.25	2.49	4.90	7.14	11.94	15.64	18.00	19.69	20.99	22.06	22.96	23.74	24.43	25.05	25.61	26.12
I	.16	.33	.49	.99	1.96	3.86	5.63	9.47	12.63	14.63	16.05	17.15	18.05	18.82	19.48	20.06	20.58	21.06	21.49
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.81	11.49	12.69	13.63	14.39	15.03	15.59	16.09	16.53	16.93	17.29
K	.10	.20	.29	.59	1.16	2.29	3.33	5.68	7.81	9.22	10.22	11.00	11.63	12.17	12.63	13.05	13.41	13.75	14.05
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.62	9.12	9.54	9.91	10.24	10.53	10.79	11.03
M	.05	.10	.14	.29	.57	1.13	1.64	2.84	4.06	4.91	5.51	5.97	6.35	6.68	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.52	2.18	2.72	3.10	3.40	3.64	3.84	4.02	4.17	4.31	4.44	4.56
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.72	1.44	2.15	4.13	6.95	10.10	12.79	18.18	22.82	25.59	27.55	29.08	30.33	31.38	32.30	33.11	33.83	34.48	35.08

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.47	1900	.21	2.44
0200	.10	.20	0800	.12	.84	1400	.15	1.62	2000	.21	2.65
0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.86
0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.07
0500	.10	.50	1100	.12	1.20	1700	.15	2.08	2300	.21	3.28
0600	.10	.60	1200	.12	1.32	1800	.15	2.23	2400	.21	3.48
6-HR TOTAL	.60			.72			.92			1.25	

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.29	3.77	0700	.59	6.04	1300	1.40	11.49	1900	.55	28.82
0200	.30	4.08	0800	.64	6.69	1400	2.11	13.61	2000	.51	29.33
0300	.32	4.39	0900	.71	7.39	1500	3.16	16.76	2100	.47	29.80
0400	.33	4.73	1000	.79	8.19	1600	6.95	23.71	2200	.44	30.24
0500	.35	5.08	1100	.89	9.08	1700	2.69	26.40	2300	.41	30.65
0600	.37	5.45	1200	1.02	10.09	1800	1.87	28.27	2400	.39	31.04
6-HR TOTAL	1.97			4.64			18.18			2.76	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.25	31.29	0700	.18	32.74	1300	.13	33.75	1900	.11	34.54
0200	.25	31.54	0800	.18	32.91	1400	.13	33.89	2000	.11	34.64
0300	.25	31.80	0900	.18	33.09	1500	.13	34.02	2100	.11	34.75
0400	.25	32.05	1000	.18	33.27	1600	.13	34.16	2200	.11	34.86
0500	.25	32.31	1100	.18	33.44	1700	.13	34.29	2300	.11	34.97
0600	.25	32.56	1200	.18	33.62	1800	.13	34.43	2400	.11	35.08
6-HR TOTAL	1.53			1.06			.81			.65	

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BOUNDARY COORDINATES FOR BASIN4

X	352.8	348.3	349.1	345.0	347.4	339.3	323.6	325.8	317.6	314.8
Y	441.5	481.9	512.5	515.5	523.6	523.4	550.2	562.8	565.8	571.4
X	317.4	315.6	306.5	302.1	295.4	295.4	289.7	284.2	279.7	267.3
Y	574.4	579.2	582.4	600.0	600.5	612.0	617.3	640.0	644.0	640.7
X	258.7	236.4	227.0	214.0	161.3	123.5	111.3	96.2	102.6	97.3
Y	651.3	648.7	677.8	665.0	685.3	676.9	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
STORM AREA = 450. SQ. MI., ORIENTATION = 172., PREFERRED ORIENTATION = 215.
Page 4

PR Y.OUT

STORM CENTER COORDINATES, X = 205.0, Y = 371.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	25.01	5.40	2.92	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
B 25.	25.	23.49	5.21	2.88	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
C 50.	50.	21.98	5.02	2.85	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
D 100.	100.	20.46	4.88	2.82	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
E 175.	175.	19.14	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
F 300.	278.	17.62	4.64	2.80	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
G 450.	363.	16.29	4.54	2.79	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
H 700.	407.	11.94	3.70	2.36	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51
I 1000.	411.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	411.	7.20	2.61	1.69	1.20	.93	.76	.65	.56	.49	.44	.40	.36
K 2150.	411.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	411.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	411.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	411.	1.52	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	411.	.57	.22	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		18.78	4.72	2.79	1.98	1.54	1.26	1.06	.92	.81	.73	.66	.60

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.03	10.04	14.33	17.97	25.01	30.41	33.33	35.33	36.89	38.16	39.23	40.16	40.99	41.72	42.39	43.00
B	.98	1.96	2.93	5.63	9.39	13.42	16.84	23.49	28.70	31.59	33.59	35.14	36.41	37.49	38.42	39.24	39.98	40.64	41.25
C	.92	1.83	2.72	5.24	8.75	12.52	15.72	21.98	27.00	29.85	31.85	33.40	34.67	35.75	36.68	37.50	38.24	38.90	39.51
D	.85	1.69	2.52	4.85	8.10	11.62	14.59	20.46	25.34	28.16	30.16	31.72	32.99	34.06	34.99	35.82	36.55	37.22	37.82
E	.79	1.57	2.34	4.51	7.54	10.83	13.61	19.14	23.89	26.70	28.70	30.26	31.53	32.60	33.53	34.36	35.09	35.76	36.36
F	.72	1.44	2.15	4.13	6.91	9.93	12.49	17.62	22.26	25.06	27.06	28.61	29.88	30.96	31.89	32.71	33.45	34.11	34.72
G	.67	1.33	1.98	3.80	6.36	9.16	11.51	16.29	20.84	23.63	25.63	27.18	28.45	29.53	30.46	31.28	32.02	32.68	33.29
H	.21	.42	.62	1.25	2.49	4.90	7.14	11.94	15.64	18.00	19.69	20.99	22.06	22.96	23.74	24.43	25.05	25.61	26.12
I	.16	.33	.49	.99	1.96	3.86	5.63	9.47	12.63	14.63	16.05	17.15	18.05	18.82	19.48	20.06	20.58	21.06	21.49
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.81	11.49	12.69	13.63	14.39	15.03	15.59	16.09	16.53	16.93	17.29
K	.10	.20	.29	.59	1.16	2.29	3.33	5.68	7.81	9.22	10.22	11.00	11.63	12.17	12.63	13.05	13.41	13.75	14.05
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.62	9.12	9.54	9.91	10.24	10.53	10.79	11.03
M	.05	.10	.14	.29	.57	1.13	1.64	2.84	4.06	4.91	5.51	5.97	6.35	6.68	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.52	2.18	2.72	3.10	3.40	3.64	3.84	4.02	4.17	4.31	4.44	4.56
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.76	1.51	2.25	4.34	7.27	10.52	13.28	18.78	23.50	26.28	28.26	29.80	31.06	32.12	33.04	33.86	34.58	35.24	35.84

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.46
0200	.10	.20	0800	.12	.84	1400	.15	1.64	2000	.21	2.67
0300	.10	.30	0900	.12	.97	1500	.15	1.79	2100	.21	2.88
0400	.10	.40	1000	.12	1.09	1600	.15	1.94	2200	.21	3.09
0500	.10	.50	1100	.12	1.21	1700	.15	2.10	2300	.21	3.30
0600	.10	.60	1200	.12	1.33	1800	.15	2.25	2400	.21	3.51
6-HR TOTAL	.60			.73			.92			1.26	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.80	0700	.60	6.09	1300	1.43	11.63	1900	.56	29.54
0200	.30	4.11	0800	.65	6.74	1400	2.16	13.79	2000	.51	30.05
0300	.32	4.43	0900	.72	7.46	1500	3.25	17.04	2100	.47	30.53
0400	.33	4.76	1000	.80	8.26	1600	7.27	24.31	2200	.44	30.96
0500	.35	5.11	1100	.91	9.17	1700	2.76	27.07	2300	.41	31.38
0600	.37	5.49	1200	1.03	10.20	1800	1.92	28.98	2400	.39	31.77
6-HR TOTAL	1.98			4.72			18.78			2.79	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	32.03	0700	.18	33.49	1300	.14	34.51	1900	.11	35.30
0200	.26	32.28	0800	.18	33.66	1400	.14	34.64	2000	.11	35.41
0300	.26	32.54	0900	.18	33.84	1500	.14	34.78	2100	.11	35.52
0400	.26	32.80	1000	.18	34.02	1600	.14	34.91	2200	.11	35.62
0500	.26	33.05	1100	.18	34.20	1700	.14	35.05	2300	.11	35.73
0600	.26	33.31	1200	.18	34.37	1800	.14	35.19	2400	.11	35.84
6-HR TOTAL	1.54			1.06			.81			.66	

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PR Y.OUT

SUBBASIN3

BOUNDARY COORDINATES FOR BASIN3

X	296.7	291.7	285.0	281.4	281.4	275.4	260.1	251.9	246.6	240.8
Y	200.6	192.6	188.1	177.8	167.4	160.5	154.8	154.8	153.6	156.6
X	230.6	225.4	219.9	200.1	164.1	168.7	175.9	172.8	198.3	200.8
Y	153.3	145.6	135.2	125.3	115.4	94.9	88.6	82.9	85.1	92.2
X	217.9	233.5	244.0	247.2	254.0	261.8	272.2	277.1	287.2	290.7
Y	92.9	104.3	104.6	101.7	106.8	105.3	107.4	101.4	107.4	107.4
X	294.5	306.5	308.5	303.9	308.5	307.9	308.9			
Y	114.2	114.5	116.4	128.5	141.8	169.5	181.1			

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 24.2 SQ. MI.

BASIN CENTROID COORDINATES, X = 249.0, Y = 129.9

PROBABLE MAXIMUM STORM FOR BASIN3

STORM AREA = 450. SQ. MI., ORIENTATION = 172., PREFERRED ORIENTATION = 215.

STORM CENTER COORDINATES, X = 205.0, Y = 371.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	25.01	5.40	2.92	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
B 25.	0.	23.49	5.21	2.88	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
C 50.	0.	21.98	5.02	2.85	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
D 100.	0.	20.46	4.88	2.82	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
E 175.	0.	19.14	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
F 300.	12.	17.62	4.64	2.80	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
G 450.	24.	16.29	4.54	2.79	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
H 700.	24.	11.94	3.70	2.36	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51
I 1000.	24.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	24.	7.20	2.61	1.69	1.20	.93	.76	.65	.56	.49	.44	.40	.36
K 2150.	24.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	24.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	24.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	24.	1.52	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	24.	.57	.22	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.50	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61

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TIME INTERVAL = 60. MINUTES

1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.03	10.04	14.33	17.97	25.01	30.41	33.33	35.33	36.89	38.16	39.23	40.16	40.99	41.72	42.39	43.00
B	.98	1.96	2.93	5.63	9.39	13.42	16.84	23.49	28.70	31.59	33.59	35.14	36.41	37.49	38.42	39.24	39.98	40.64	41.25
C	.92	1.83	2.72	5.24	8.75	12.52	15.72	21.98	27.00	29.85	31.85	33.40	34.67	35.75	36.68	37.50	38.24	38.90	39.51
D	.85	1.69	2.52	4.85	8.10	11.62	14.59	20.46	25.34	28.16	30.16	31.72	32.99	34.06	34.99	35.82	36.55	37.22	37.82
E	.79	1.57	2.34	4.51	7.54	10.83	13.61	19.14	23.89	26.70	28.70	30.26	31.53	32.60	33.53	34.36	35.09	35.76	36.36
F	.72	1.44	2.15	4.13	6.91	9.93	12.49	17.62	22.26	25.06	27.06	28.61	29.88	30.96	31.89	32.71	33.45	34.11	34.72
G	.67	1.33	1.98	3.80	6.36	9.16	11.51	16.29	20.84	23.63	25.63	27.18	28.45	29.53	30.46	31.28	32.02	32.68	33.29
H	.21	.42	.62	1.25	2.49	4.90	7.14	11.94	15.64	18.00	19.69	20.99	22.06	22.96	23.74	24.43	25.05	25.61	26.12
I	.16	.33	.49	.99	1.96	3.86	5.63	9.47	12.63	14.63	16.05	17.15	18.05	18.82	19.48	20.06	20.58	21.06	21.49
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.81	11.49	12.69	13.63	14.39	15.03	15.59	16.09	16.53	16.93	17.29
K	.10	.20	.29	.59	1.16	2.29	3.33	5.68	7.81	9.22	10.22	11.00	11.63	12.17	12.63	13.05	13.41	13.75	14.05
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.62	9.12	9.54	9.91	10.24	10.53	10.79	11.03
M	.05	.10	.14	.29	.57	1.13	1.64	2.84	4.06	4.91	5.51	5.97	6.35	6.68	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.52	2.18	2.72	3.10	3.40	3.64	3.84	4.02	4.17	4.31	4.44	4.56
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.72	1.43	2.13	4.10	6.85	9.86	12.39	17.50	22.12	24.92	26.92	28.47	29.75	30.82	31.75	32.57	33.31	33.97	34.58

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.49
0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.70
0300	.10	.30	0900	.12	.98	1500	.16	1.81	2100	.21	2.91
0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL	.61			.74			.93			1.27	

PR Y.OUT

DAY 2

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.30	3.84	0700	.60	6.14	1300	1.34	11.51	1900	.56	28.23
0200	.31	4.15	0800	.65	6.79	1400	1.99	13.51	2000	.51	28.74
0300	.32	4.47	0900	.71	7.50	1500	3.00	16.51	2100	.47	29.21
0400	.34	4.81	1000	.79	8.29	1600	6.85	23.36	2200	.44	29.65
0500	.36	5.17	1100	.89	9.17	1700	2.54	25.90	2300	.42	30.07
0600	.38	5.54	1200	1.00	10.17	1800	1.77	27.67	2400	.40	30.47
6-HR TOTAL	2.00			4.63			17.50			2.80	

DAY 3

TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.26	30.72	0700	.18	32.20	1300	.14	33.23	1900	.11	34.03
0200	.26	30.98	0800	.18	32.38	1400	.14	33.37	2000	.11	34.14
0300	.26	31.24	0900	.18	32.56	1500	.14	33.50	2100	.11	34.25
0400	.26	31.50	1000	.18	32.74	1600	.14	33.64	2200	.11	34.36
0500	.26	31.76	1100	.18	32.91	1700	.14	33.78	2300	.11	34.47
0600	.26	32.02	1200	.18	33.09	1800	.14	33.92	2400	.11	34.58
6-HR TOTAL	1.55			1.07			.82			.67	

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5
X	367.2									
Y	172.2									

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

PROBABLE MAXIMUM STORM FOR BASIN2
STORM AREA = 450. SQ. MI., ORIENTATION = 172., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 205.0, Y = 371.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS 1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	25.01	5.40	2.92	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
B 25.	0.	23.49	5.21	2.88	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
C 50.	0.	21.98	5.02	2.85	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
D 100.	0.	20.46	4.88	2.82	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
E 175.	0.	19.14	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
F 300.	0.	17.62	4.64	2.80	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
G 450.	4.	16.29	4.54	2.79	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
H 700.	10.	11.94	3.70	2.36	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51
I 1000.	10.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	10.	7.20	2.61	1.69	1.20	.93	.76	.65	.56	.49	.44	.40	.36
K 2150.	10.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	10.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	10.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	10.	1.52	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	10.	.57	.22	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.05	4.28	2.65	1.90	1.47	1.20	1.02	.88	.78	.70	.63	.58

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TIME INTERVAL = 60. MINUTES
1-HR TO 6-HR RATIO FOR ISOHYET A AT 20000 SQ. MI. = .308

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.03	10.04	14.33	17.97	25.01	30.41	33.33	35.33	36.89	38.16	39.23	40.16	40.99	41.72	42.39	43.00
B	.98	1.96	2.93	5.63	9.39	13.42	16.84	23.49	28.70	31.59	33.59	35.14	36.41	37.49	38.42	39.24	39.98	40.64	41.25
C	.92	1.83	2.72	5.24	8.75	12.52	15.72	21.98	27.00	29.85	31.85	33.40	34.67	35.75	36.68	37.50	38.24	38.90	39.51
D	.85	1.69	2.52	4.85	8.10	11.62	14.59	20.46	25.34	28.16	30.16	31.72	32.99	34.06	34.99	35.82	36.55	37.22	37.82
E	.79	1.57	2.34	4.51	7.54	10.83	13.61	19.14	23.89	26.70	28.70	30.26	31.53	32.60	33.53	34.36	35.09	35.76	36.36
F	.72	1.44	2.15	4.13	6.91	9.93	12.49	17.62	22.26	25.06	27.06	28.61	29.88	30.96	31.89	32.71	33.45	34.11	34.72
G	.67	1.33	1.98	3.80	6.36	9.16	11.51	16.29	20.84	23.63	25.63	27.18	28.45	29.53	30.46	31.28	32.02	32.68	33.29
H	.21	.42	.62	1.25	2.49	4.90	7.14	11.94	15.64	18.00	19.69	20.99	22.06	22.96	23.74	24.43	25.05	25.61	26.12
I	.16	.33	.49	.99	1.96	3.86	5.63	9.47	12.63	14.63	16.05	17.15	18.05	18.82	19.48	20.06	20.58	21.06	21.49
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.81	11.49	12.69	13.63	14.39	15.03	15.59	16.09	16.53	16.93	17.29
K	.10	.20	.29	.59	1.16	2.29	3.33	5.68	7.81	9.22	10.22	11.00	11.63	12.17	12.63	13.05	13.41	13.75	14.05
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.62	9.12	9.54	9.91	10.24	10.53	10.79	11.03
M	.05	.10	.14	.29	.57	1.13	1.64	2.84	4.06	4.91	5.51	5.97	6.35	6.68	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.52	2.18	2.72	3.10	3.40	3.64	3.84	4.02	4.17	4.31	4.44	4.56
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

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