

SC 4.OUT

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										
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PROBABLE MAXIMUM STORM (HMR52)		*****
NOVEMBER 1982		U.S. ARMY CORPS OF ENGINEERS
REVISED APRIL 91		THE HYDROLOGIC ENGINEERING CENTER
		609 SECOND STREET
		DAVIS, CALIFORNIA 95616
RUN DATE 06/25/2008 TIME 09:57:04		(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 SQUAW CREEK BASIN AT SC4
 CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	6-HR	12-HR	DURATION 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

SC 4.0UT

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

WATERS SURFACE PEAK DEPTH PERIOD ORIENTATIONS														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENTA- TION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												
10.	143.	7.46	1.38	.76	.53	.41	.33	.28	.24	.21	.19	.17	.15	9.59
25.	143.	9.91	2.08	1.21	.84	.65	.53	.45	.39	.34	.30	.27	.25	13.20
50.	143.	11.64	2.61	1.54	1.09	.84	.68	.58	.50	.44	.39	.36	.32	15.80
100.	143.	13.02	3.08	1.86	1.32	1.02	.83	.70	.61	.54	.48	.43	.40	17.96
175.	143.	14.12	3.42	2.11	1.50	1.17	.96	.81	.70	.62	.55	.50	.46	19.65
300.	143.	15.01	3.87	2.37	1.69	1.31	1.07	.91	.79	.70	.62	.56	.51	21.25
450.	143.	15.57	4.19	2.54	1.80	1.40	1.14	.97	.84	.74	.66	.60	.55	22.30
700.	143.	15.64	4.48	2.66	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.77
1000.	143.	15.31	4.64	2.70	1.90	1.47	1.20	1.02	.88	.78	.69	.63	.57	22.65
1500.	143.	14.50	4.41	2.59	1.83	1.43	1.17	.99	.86	.76	.68	.61	.56	21.49
2150.	143.	13.49	4.11	2.44	1.74	1.36	1.12	.95	.82	.73	.65	.59	.54	20.04
3000.	143.	12.32	3.79	2.26	1.62	1.27	1.05	.89	.78	.69	.62	.56	.51	18.38
4500.	143.	11.63	3.64	2.20	1.59	1.26	1.04	.89	.77	.68	.61	.56	.51	17.47
6500.	143.	11.13	3.44	2.09	1.52	1.20	1.00	.85	.75	.66	.59	.54	.49	16.65
10000.	143.	10.42	3.17	1.94	1.41	1.13	.94	.80	.70	.62	.56	.51	.47	15.52
15000.	143.	9.74	2.97	1.81	1.32	1.06	.88	.76	.66	.59	.53	.48	.44	14.51
20000.	143.	9.09	2.81	1.72	1.26	1.01	.84	.72	.63	.56	.51	.46	.42	13.62

FIXED STORM AREA SIZE AND VARYING ORIENTATION

FIXED STORM AREA SIZE AND VARYING ORIENTATION														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENTATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												
700.	140.	15.61	4.48	2.66	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.75
700.	150.	15.61	4.47	2.65	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.73
700.	160.	15.50	4.46	2.65	1.87	1.45	1.19	1.00	.87	.77	.69	.62	.57	22.61
700.	170.	15.21	4.41	2.62	1.86	1.44	1.18	.99	.86	.76	.68	.61	.56	22.24
700.	180.	14.80	4.33	2.58	1.82	1.42	1.16	.98	.82	.75	.67	.60	.55	21.70
700.	190.	14.34	4.23	2.52	1.78	1.38	1.13	.96	.83	.73	.65	.59	.54	21.09
700.	200.	13.97	4.14	2.47	1.75	1.36	1.11	.94	.81	.72	.64	.58	.53	20.58
700.	210.	13.72	4.07	2.43	1.72	1.33	1.09	.92	.80	.70	.63	.57	.52	20.22
700.	220.	13.62	4.05	2.41	1.71	1.32	1.08	.91	.79	.70	.63	.57	.52	20.07
700.	230.	13.62	4.04	2.41	1.71	1.32	1.08	.91	.79	.70	.62	.57	.52	20.08
700.	240.	13.72	4.07	2.43	1.72	1.33	1.09	.92	.80	.70	.63	.57	.52	20.21
700.	250.	13.89	4.11	2.45	1.73	1.34	1.10	.93	.80	.71	.63	.57	.52	20.44
700.	260.	14.05	4.14	2.47	1.75	1.36	1.11	.94	.81	.72	.64	.58	.53	20.66
700.	270.	14.19	4.17	2.48	1.76	1.36	1.11	.94	.82	.74	.66	.60	.54	20.84
700.	280.	14.38	4.21	2.51	1.77	1.38	1.12	.95	.82	.73	.65	.59	.54	21.09
700.	290.	14.72	4.29	2.55	1.81	1.40	1.15	.97	.84	.74	.66	.60	.55	21.56
700.	300.	15.08	4.37	2.60	1.84	1.43	1.17	.99	.85	.75	.67	.61	.56	22.04
700.	310.	15.40	4.44	2.64	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56	22.48
700.	138.	15.57	4.47	2.65	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.70
700.	148.	15.62	4.47	2.65	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.75

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PROBABLE MAXIMUM STORM FOR CPNPP
 STORM AREA = 700. SQ. MI., ORIENTATION = 143., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 337.0, Y = 304.0

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR	INCREMENTS OF	9	10	11	12
A 10.	10.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	24.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	45.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	78.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E 175.	123.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F 300.	190.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	267.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H 700.	378.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I 1000.	452.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	496.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K 2150.	509.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L 3000.	509.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M 4500.	509.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N 6500.	509.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O 10000.	509.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		15.64	4.48	2.66	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57

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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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29

Page 3

SC 4.0UT																			
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.18	.37	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68
J	.14	.28	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
K	.10	.21	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76
L	.08	.15	.23	.46	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37
M	.05	.10	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06
N	.03	.06	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72
O	.01	.02	.03	.06	.13	.25	.37	.67	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69
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	1.64	3.16	5.41	8.20	10.62	15.64	20.12	22.77	24.66	26.12	27.31	28.32	29.19	29.96	30.65	31.28	31.85

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.09	.09	0700	.11	.68	1300	.15	1.40	1900	.20	2.33
0200	.09	.19	0800	.11	.80	1400	.15	1.55	2000	.20	2.53
0300	.09	.28	0900	.11	.91	1500	.15	1.70	2100	.20	2.73
0400	.09	.38	1000	.11	1.03	1600	.15	1.84	2200	.20	2.93
0500	.09	.47	1100	.11	1.14	1700	.15	1.99	2300	.20	3.13
0600	.09	.57	1200	.11	1.26	1800	.15	2.13	2400	.20	3.33
6-HR TOTAL	.57		.69			.87			1.19		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.28	3.60	0700	.57	5.78	1300	1.32	11.01	1900	.53	25.86
0200	.29	3.89	0800	.62	6.41	1400	1.95	12.96	2000	.49	26.34
0300	.30	4.20	0900	.69	7.09	1500	2.79	15.75	2100	.45	26.79
0400	.32	4.52	1000	.77	7.86	1600	5.41	21.16	2200	.42	27.21
0500	.34	4.85	1100	.86	8.72	1700	2.42	23.58	2300	.39	27.61
0600	.36	5.21	1200	.97	9.69	1800	1.74	25.32	2400	.37	27.98
6-HR TOTAL	1.88		4.48			15.64			2.66		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	28.23	0700	.17	29.61	1300	.13	30.58	1900	.10	31.33
0200	.24	28.47	0800	.17	29.78	1400	.13	30.71	2000	.10	31.43
0300	.24	28.71	0900	.17	29.95	1500	.13	30.84	2100	.10	31.53
0400	.24	28.96	1000	.17	30.12	1600	.13	30.97	2200	.10	31.64
0500	.24	29.20	1100	.17	30.28	1700	.13	31.09	2300	.10	31.74
0600	.24	29.44	1200	.17	30.45	1800	.13	31.22	2400	.10	31.85
6-HR TOTAL	1.46		1.01			.77			.62		

1

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 = 143., PREFERRED ORIENTATION = 215.

		SC 4.0UT STORM CENTER COORDINATES, X = 337.0, Y = 304.0											
ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	2.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	11.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	31.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E 175.	63.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F 300.	120.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	190.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H 700.	294.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I 1000.	362.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	400.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K 2150.	411.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L 3000.	411.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M 4500.	411.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N 6500.	411.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O 10000.	411.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		14.98	4.41	2.64	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57

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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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33	
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73	
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21	
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53	
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02	
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40	
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29	
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83	
I	.48	.97	1.47	2.89	4.81	7.19	9.31	13.62	18.10	20.85	22.81	24.33	25.57	26.62	27.53	28.33	29.04	29.69	30.28	
J	.44	.92	1.42	2.83	4.75	7.13	9.25	13.56	18.04	20.79	22.75	24.27	25.51	26.56	27.47	28.27	28.98	29.63	30.22	
K	.40	.91	1.31	2.62	4.23	6.41	8.51	12.82	17.38	19.93	21.88	23.27	24.30	25.14	25.94	26.65	27.28	27.84	28.34	
L	.38	.85	1.21	2.46	4.01	6.19	8.29	12.60	17.16	19.71	21.66	23.05	24.08	24.91	25.71	26.42	27.05	27.61	28.11	
M	.35	.80	1.15	2.30	3.80	6.00	8.18	12.50	17.06	19.61	21.56	22.95	23.98	24.81	25.61	26.32	26.95	27.51	28.01	
N	.33	.76	1.10	2.25	3.75	5.95	8.13	12.45	16.99	19.54	21.49	22.88	23.91	24.74	25.54	26.25	26.88	27.44	27.94	
O	.31	.72	1.05	2.20	3.69	5.89	8.07	12.39	16.93	19.48	21.43	22.82	23.85	24.68	25.48	26.19	26.82	27.38	27.88	
P	.30	.70	1.02	2.17	3.66	5.86	8.04	12.35	16.89	19.44	21.39	22.78	23.81	24.64	25.44	26.15	26.78	27.34	27.84	
Q	.29	.68	1.00	2.15	3.64	5.84	8.02	12.33	16.87	19.42	21.37	22.76	23.79	24.62	25.42	26.13	26.76	27.32	27.82	
R	.28	.66	0.98	2.13	3.63	5.83	8.01	12.31	16.85	19.40	21.35	22.74	23.77	24.60	25.40	26.11	26.74	27.30	27.80	
S	.27	.64	0.96	2.11	3.62	5.82	8.00	12.30	16.84	19.39	21.34	22.73	23.76	24.59	25.39	26.10	26.73	27.29	27.79	
AVERAGE	.52	1.04	1.55	2.99	5.13	7.81	10.14	14.98	19.39	22.03	23.91	25.37	26.56	27.56	28.43	29.20	29.89	30.51	31.08	

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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	.09	.09		0700	.11	.68		1300	.15	1.40		1900	.20	2.33
	0200	.09	.19		0800	.11	.80		1400	.15	1.55		2000	.20	2.52
	0300	.09	.28		0900	.11	.91		1500	.15	1.69		2100	.20	2.72
	0400	.09	.38		1000	.11	1.03		1600	.15	1.84		2200	.20	2.92
	0500	.09	.47		1100	.11	1.14		1700	.15	1.98		2300	.20	3.12
	0600	.09	.57		1200	.11	1.26		1800	.15	2.13		2400	.20	3.32
6-HR TOTAL		.57				.69				.87				1.19	
DAY 2															
	TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL
	0100	.28	3.59		0700	.57	5.76		1300	1.28	10.89		1900	.53	25.11
	0200	.29	3.88		0800	.62	6.38		1400	1.88	12.77		2000	.48	25.60
	0300	.30	4.19		0900	.68	7.06		1500	2.68	15.45		2100	.45	26.05
	0400	.32	4.50		1000	.75	7.81		1600	5.13	20.57		2200	.42	26.46
	0500	.34	4.84		1100	.85	8.65		1700	2.33	22.90		2300	.39	26.85
	0600	.36	5.19		1200	.95	9.61		1800	1.68	24.58		2400	.37	27.23
6-HR TOTAL		1.88				4.41				14.98				2.64	
DAY 3															
	TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL
	0100	.24	27.47		0700	.17	28.85		1300	.13	29.82		1900	.10	30.56
	0200	.24	27.71		0800	.17	29.02		1400	.13	29.95		2000	.10	30.67
	0300	.24	27.96		0900	.17	29.19		1500	.13	30.07		2100	.10	30.77
	0400	.24	28.20		1000	.17	29.36		1600	.13	30.20		2200	.10	30.87
	0500	.24	28.44		1100	.17	29.52		1700	.13	30.33		2300	.10	30.98
	0600	.24	28.68		1200	.17	29.69		1800	.13	30.46		2400	.10	31.08
6-HR TOTAL		1.46				1.01				.77				.62	

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SUBBASIN3																				
SC 4.OUT																				
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																				
STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN3, ORIENTATION = 143., PREFERRED ORIENTATION = 215.																				
STORM CENTER COORDINATES, X = 337.0, Y = 304.0																				
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) 4	5	6	7	8	9	10	11	12							
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
E 175.	0.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
F 300.	1.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
G 450.	3.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
H 700.	9.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
I 1000.	16.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50							
J 1500.	21.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42							
K 2150.	24.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35							
L 3000.	24.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28							
M 4500.	24.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22							
N 6500.	24.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15							
O 10000.	24.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		12.09	3.95	2.43	1.73	1.34	1.10	.93	.80	.71	.63	.57	.52							
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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33	
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73	
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21	
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53	
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02	
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40	
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29	
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83	
I	.48	.97	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68	
J	.44	.88	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79	
K	.40	.81	.39	.76	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76	
L	.38	.75	.37	.71	1.19	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37		
M	.35	.70	.35	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06		
N	.33	.66	.33	.56	1.17	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72			
O	.31	.62	.31	.53	1.15	1.65	2.57	3.17	3.67	4.06	4.38	4.64	4.88	5.11	5.32	5.52	5.69			
P	.30	.60	.30	.50	1.14	1.64	2.54	3.14	3.64	4.04	4.36	4.62	4.86	5.09	5.30	5.49	5.66			
Q	.29	.59	.29	.49	1.13	1.63	2.53	3.13	3.63	4.03	4.35	4.61	4.85	5.08	5.29	5.48	5.65			
R	.28	.58	.28	.48	1.12	1.62	2.52	3.12	3.62	4.02	4.34	4.60	4.84	5.07	5.28	5.47	5.64			
S	.27	.57	.27	.47	1.11	1.61	2.51	3.11	3.61	4.01	4.33	4.59	4.83	5.06	5.27	5.46	5.63			
AVERAGE		.36	.72	1.07	2.07	3.65	5.88	7.86	12.09	16.04	18.47	20.20	21.54	22.64	23.57	24.37	25.08	25.72	26.29	26.81
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
A	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59
I	.48	.97	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62
J	.44	.88	.52	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92
K	.40	.81	.47	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03
L	.36	.75	.43	.56	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78
M	.32	.68	.40	.50	.80	1.58	2.32	4.03	5.72	6.88	7.70	8.34	8.84	9.24	9.56	9.84	10.08
N	.28	.60	.36	.44	.70	1.36	2.04	3.41	4.85	5.72	6.31	6.74	7.08	7.36	7.59	7.78	7.94
O	.24	.52	.32	.39	.62	1.18	1.72	2.91	4.03	4.85	5.31	5.64	5.88	6.07	6.22	6.34	6.44
P	.20	.44	.28	.33	.52	1.00	1.44	2.41	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57
Q	.16	.36	.24	.28	.44	.88	1.28	2.16	2.91	3.31	3.64	3.92	4.16	4.36	4.52	4.66	4.78
R	.12	.28	.20	.24	.36	.72	1.04	1.72	2.31	2.64	2.92	3.16	3.36	3.52	3.66	3.78	3.88
S	.08	.20	.16	.20	.28	.56	.80	1.28	1.72	1.96	2.16	2.32	2.48	2.64	2.76	2.88	2.96
AVERAGE	.36	.72	1.07	2.07	3.65	5.88	7.86	12.09	16.04	18.47	20.20	21.54	22.64	23.57	24.37	25.08	25.72

PROBABLE MAXIMUM STORM FOR BASIN3											
DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR
	0100	.09	.09	0700	.11	.63	1300	.13	1.29	1900	.18
	0200	.09	.17	0800	.11	.74	1400	.13	1.43	2000	.18
	0300	.09	.26	0900	.11	.84	1500	.13	1.56	2100	.18
	0400	.09	.35	1000	.11	.95	1600	.13	1.69	2200	.18
	0500	.09	.44	1100	.11	1.05	1700	.13	1.83	2300	.18
	0600	.09	.52	1200	.11	1.16	1800	.13	1.96	2400	.18
6-HR TOTAL		.52			.63			.80			1.10

SC 4.OUT											
DAY 2											
	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION
		INCR			INCR			INCR			INCR
	0100	.26	3.32	0700	.52	5.31	1300	1.13	9.87	1900	.48
	0200	.27	3.58	0800	.55	5.86	1400	1.63	11.50	2000	.45
	0300	.28	3.86	0900	.61	6.47	1500	2.23	13.72	2100	.41
	0400	.29	4.15	1000	.67	7.14	1600	3.65	17.38	2200	.39
	0500	.31	4.46	1100	.75	7.89	1700	1.98	19.35	2300	.36
	0600	.33	4.79	1200	.85	8.74	1800	1.47	20.83	2400	.34
6-HR TOTAL		1.73			3.95			12.09			2.43

DAY 3											
	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION
		INCR			INCR			INCR			INCR
	0100	.22	23.48	0700	.15	24.76	1300	.12	25.65	1900	.10
	0200	.22	23.71	0800	.15	24.91	1400	.12	25.77	2000	.10
	0300	.22	23.93	0900	.15	25.07	1500	.12	25.89	2100	.10
	0400	.22	24.16	1000	.15	25.22	1600	.12	26.00	2200	.10
	0500	.22	24.38	1100	.15	25.38	1700	.12	26.12	2300	.10
	0600	.22	24.60	1200	.15	25.53	1800	.12	26.24	2400	.10
6-HR TOTAL		1.34			.93			.71			.57

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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

STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN2
 STORM CENTER COORDINATES, X = 337.0, Y = 304.0, ORIENTATION = 143., PREFERRED ORIENTATION = 151.

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	4	5	6	7	8	9	10	11	12
DEPTHS (INCHES)													
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E 175.	1.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F 300.	5.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	9.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H 700.	10.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I 1000.	10.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	10.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K 2150.	10.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L 3000.	10.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M 4500.	10.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N 6500.	10.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O 10000.	10.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		16.53	4.67	2.76	1.96	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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.48	.97	1.47	2.89	4.74	7.01	9.31	13.62	18.00	20.65	22.61	24.03	25.19	26.19	27.07	27.85	28.54	29.18	29.77
J	.44	.88	1.32	2.64	4.32	6.48	8.64	12.96	17.28	19.84	21.76	23.12	24.24	25.19	26.04	26.79	27.46	28.07	28.62
K	.40	.80	1.20	2.40	4.00	6.00	8.00	12.00	16.00	18.00	19.50	20.70	21.60	22.36	23.04	23.64	24.18	24.68	25.14
L	.36	.72	1.08	2.16	3.60	5.40	7.20	10.80	14.40	16.56	18.24	19.44	20.36	21.12	21.76	22.36	22.92	23.44	23.92
M	.32	.64	.96	1.92	3.20	4.80	6.40	9.60	12.80	14.72	16.32	17.44	18.24	18.96	19.56	20.08	20.56	21.00	21.44
N	.28	.56	.84	1.68	2.80	4.20	5.60	8.40	11.20	12.80	14.08	15.04	15.84	16.48	17.04	17.52	17.96	18.36	18.72
O	.24	.48	.72	1.44	2.40	3.60	4.80	7.20	9.60	10.80	11.76	12.48	13.04	13.52	13.96	14.36	14.72	15.04	15.36
P	.20	.40	.60	1.20	2.00	3.00	4.00	6.00	8.00	9.00	9.96	10.56	11.04	11.44	11.76	12.08	12.36	12.64	12.92
Q	.16	.32	.48	.96	1.60	2.40	3.20	4.80	6.40	7.20	7.92	8.32	8.64	8.96	9.28	9.56	9.84	10.08	10.32

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		SC 4.0UT																	
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	.62	1.24	1.84	3.54	5.99	8.90	11.40	16.53	21.20	23.96	25.92	27.44	28.68	29.73	30.64	31.44	32.16	32.81	33.40

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PROBABLE MAXIMUM STORM FOR BASIN2

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	2.64
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		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.75	0700	.60	6.02	1300	1.35	11.44	1900	.55	27.17
0200	.30	4.06	0800	.65	6.67	1400	1.99	13.44	2000	.51	27.68
0300	.32	4.37	0900	.72	7.39	1500	2.91	16.35	2100	.47	28.15
0400	.33	4.70	1000	.80	8.19	1600	5.99	22.34	2200	.43	28.58
0500	.35	5.05	1100	.90	9.08	1700	2.50	24.84	2300	.41	28.99
0600	.37	5.42	1200	1.01	10.09	1800	1.78	26.62	2400	.39	29.38
6-HR TOTAL	1.96		4.67			16.53			2.76		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	29.63	0700	.18	31.07	1300	.13	32.08	1900	.11	32.86
0200	.25	29.89	0800	.18	31.25	1400	.13	32.22	2000	.11	32.97
0300	.25	30.14	0900	.18	31.43	1500	.13	32.35	2100	.11	33.08
0400	.25	30.39	1000	.18	31.60	1600	.13	32.49	2200	.11	33.19
0500	.25	30.65	1100	.18	31.78	1700	.13	32.62	2300	.11	33.29
0600	.25	30.90	1200	.18	31.95	1800	.13	32.75	2400	.11	33.40
6-HR TOTAL	1.52		1.05			.80			.65		

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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 = 143., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 337.0, Y = 304.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	4	5	6	7	8	9	10	11	12
A 10.	10.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	22.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	35.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	48.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E 175.	60.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F 300.	64.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	64.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H 700.	64.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I 1000.	64.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	64.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K 2150.	64.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L 3000.	64.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M 4500.	64.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N 6500.	64.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O 10000.	64.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		21.03	5.09	2.82	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59

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SC 4.0UT

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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.48	.97	1.42	2.71	4.56	6.84	8.84	12.84	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68	
J	.44	.88	1.32	2.53	4.20	6.25	8.12	11.64	15.00	16.51	17.71	18.71	19.56	20.29	20.93	21.49	22.00	22.47	
K	.40	.80	1.20	2.26	3.84	5.76	7.52	10.56	13.60	14.88	15.96	16.88	17.68	18.38	18.99	19.53	20.02	20.48	
L	.36	.72	1.08	2.03	3.36	5.04	6.60	9.36	11.84	13.04	14.00	14.88	15.64	16.31	16.91	17.41	17.88	18.33	
M	.32	.64	.96	1.80	2.88	4.32	5.76	8.16	10.24	11.20	12.00	12.72	13.36	13.91	14.39	14.81	15.19	15.57	
N	.28	.56	.84	1.60	2.40	3.60	4.80	6.72	8.40	9.36	10.08	10.72	11.31	11.85	12.33	12.75	13.13	13.47	
O	.24	.48	.72	1.44	2.16	3.24	4.32	6.00	7.68	8.40	9.00	9.60	10.16	10.67	11.13	11.55	11.93	12.27	
P	.20	.40	.60	1.20	1.80	2.70	3.60	5.04	6.40	7.00	7.56	8.08	8.56	9.00	9.41	9.79	10.15	10.49	
Q	.16	.32	.48	.96	1.44	2.16	2.88	4.00	5.12	5.60	6.00	6.40	6.72	7.00	7.31	7.59	7.85	8.11	
R	.12	.24	.36	.72	1.08	1.62	2.16	3.00	3.84	4.20	4.56	4.88	5.16	5.41	5.67	5.93	6.17	6.43	
S	.08	.16	.24	.48	.72	1.08	1.44	2.00	2.56	2.80	3.04	3.28	3.52	3.73	3.95	4.17	4.39	4.61	
AVERAGE	.81	1.60	2.39	4.59	7.76	11.46	14.66	21.03	26.12	28.94	30.90	32.42	33.67	34.72	35.63	36.43	37.15	37.80	38.39

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PROBABLE MAXIMUM STORM FOR BASIN1

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	2.64
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		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.75	0700	.63	6.05	1300	1.62	12.14	1900	.58	32.12
0200	.30	4.05	0800	.69	6.74	1400	2.52	14.66	2000	.52	32.64
0300	.31	4.37	0900	.77	7.51	1500	3.71	18.36	2100	.48	33.12
0400	.33	4.70	1000	.87	8.39	1600	7.76	26.12	2200	.44	33.56
0500	.35	5.05	1100	.99	9.38	1700	3.20	29.31	2300	.41	33.97
0600	.37	5.42	1200	1.14	10.52	1800	2.23	31.54	2400	.39	34.37
6-HR TOTAL	1.96		5.09			21.03			2.82		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	34.62	0700	.18	36.06	1300	.13	37.07	1900	.11	37.85
0200	.25	34.87	0800	.18	36.24	1400	.13	37.21	2000	.11	37.96
0300	.25	35.13	0900	.18	36.41	1500	.13	37.34	2100	.11	38.07
0400	.25	35.38	1000	.18	36.59	1600	.13	37.47	2200	.11	38.17
0500	.25	35.63	1100	.18	36.76	1700	.13	37.61	2300	.11	38.28
0600	.25	35.89	1200	.18	36.94	1800	.13	37.74	2400	.11	38.39
6-HR TOTAL	1.52		1.05			.80			.65		

1

SC 5.OUT

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*
*   PROBABLE MAXIMUM STORM (HMR52)
*   NOVEMBER 1982
*   REVISED APRIL 91
*
*   RUN DATE 06/25/2008   TIME 09:54:13
*
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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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      H   H   M   M   RRRRRR   555555   22222
      H   H   MM  MM   R   R   5       2       2
      H   H   M   M   M   R   R   5       2       2
      HHHHHH   M   M   M   RRRRRR   555555
      H   H   M   M   R   R   5       2       2
      H   H   M   M   R   R   5       5       5
      H   H   M   M   R   R   55555   2222222

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HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

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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 SQUAW CREEK BASIN AT SC5
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      361  304
36         ST      60  0.308  0  1
37         PU      ON

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PAGE 2

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1
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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Page 1

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SC 5.OUT

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										

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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 09:54:13	(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 SQUAW CREEK BASIN AT SC5
 CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
20.	22.20	26.80	32.00	36.00	39.60
50.	15.90	20.70	25.80	30.00	33.40
100.	9.30	13.00	17.80	22.00	25.00
200.	7.10	10.30	14.40	18.50	21.00
500.	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	.61
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

SC 5.0UT

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.	315.	6.82	1.26	.70	.48	.37	.30	.25	.22	.19	.17	.16	.14	8.78	
25.	315.	9.16	1.94	1.13	.79	.61	.49	.42	.36	.32	.28	.26	.23	12.23	
50.	315.	10.82	2.45	1.46	1.03	.79	.65	.54	.47	.42	.37	.34	.31	14.74	
100.	315.	12.19	2.92	1.78	1.26	.97	.80	.67	.58	.51	.46	.42	.38	16.89	
175.	315.	13.29	3.28	2.03	1.44	1.12	.92	.78	.67	.60	.53	.48	.44	18.60	
300.	315.	14.22	3.73	2.30	1.64	1.27	1.04	.88	.76	.67	.60	.55	.50	20.26	
450.	315.	14.85	4.07	2.48	1.76	1.37	1.12	.95	.82	.72	.65	.59	.53	21.40	
700.	315.	15.04	4.39	2.62	1.86	1.44	1.18	.99	.86	.76	.68	.61	.56	22.04	
1000.	315.	14.83	4.58	2.67	1.89	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.08	
1500.	315.	14.10	4.37	2.58	1.83	1.43	1.17	.99	.86	.76	.68	.61	.56	21.05	
2150.	315.	13.13	4.08	2.43	1.74	1.36	1.12	.95	.82	.73	.65	.59	.54	19.65	
3000.	315.	11.99	3.77	2.26	1.62	1.27	1.05	.89	.78	.69	.62	.56	.51	18.02	
4500.	315.	11.32	3.62	2.20	1.59	1.26	1.04	.89	.77	.68	.61	.56	.51	17.13	
6500.	315.	10.83	3.42	2.09	1.52	1.20	1.00	.85	.75	.66	.59	.54	.49	16.33	
10000.	315.	10.14	3.15	1.93	1.41	1.13	.94	.80	.70	.62	.56	.51	.47	15.22	
15000.	315.	9.48	2.95	1.81	1.32	1.06	.88	.76	.66	.59	.53	.48	.44	14.24	
20000.	315.	8.86	2.80	1.72	1.26	1.01	.84	.72	.63	.56	.51	.46	.42	13.37	

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.	14.82	4.57	2.67	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.06
1000.	150.	14.65	4.54	2.65	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56	21.84
1000.	160.	14.57	4.55	2.67	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	21.78
1000.	170.	14.36	4.54	2.67	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	21.57
1000.	180.	13.99	4.47	2.64	1.86	1.44	1.18	.99	.86	.76	.68	.61	.56	21.10
1000.	190.	13.57	4.37	2.58	1.82	1.41	1.15	.97	.84	.74	.66	.60	.55	20.52
1000.	200.	13.28	4.29	2.53	1.79	1.38	1.13	.95	.83	.73	.65	.59	.54	20.11
1000.	210.	13.13	4.24	2.50	1.76	1.37	1.12	.94	.82	.72	.64	.58	.53	19.87
1000.	220.	13.12	4.23	2.49	1.75	1.36	1.11	.94	.81	.72	.64	.58	.53	19.84
1000.	230.	13.21	4.24	2.49	1.76	1.36	1.11	.94	.81	.72	.64	.58	.53	19.93
1000.	240.	13.38	4.27	2.51	1.77	1.37	1.12	.95	.82	.72	.65	.58	.53	20.16
1000.	250.	13.63	4.33	2.54	1.79	1.39	1.13	.96	.83	.73	.65	.59	.54	20.49
1000.	260.	13.82	4.37	2.56	1.81	1.40	1.14	.97	.84	.74	.66	.60	.54	20.75
1000.	270.	13.91	4.38	2.56	1.81	1.40	1.14	.97	.84	.74	.66	.60	.54	20.86
1000.	280.	14.02	4.39	2.57	1.81	1.40	1.15	.97	.84	.74	.66	.60	.55	20.98
1000.	290.	14.34	4.47	2.62	1.85	1.43	1.17	.99	.85	.75	.67	.61	.56	21.43
1000.	300.	14.62	4.53	2.65	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56	21.81
1000.	310.	14.80	4.57	2.67	1.89	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.05
1000.	320.	14.80	4.57	2.67	1.89	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.05
1000.	140.	14.82	4.57	2.67	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.06

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PROBABLE MAXIMUM STORM FOR CPNPP
 STORM AREA = 1000. SQ. MI., ORIENTATION = 315., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 361.0, Y = 304.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	4	5	6	7	8	9	10	11	12
A 10.	9.	22.68	5.44	2.85	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
B 25.	19.	21.31	5.25	2.81	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
C 50.	34.	19.94	5.08	2.79	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
D 100.	63.	18.57	4.92	2.76	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
E 175.	102.	17.20	4.83	2.74	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
F 300.	165.	15.83	4.73	2.73	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
G 450.	238.	14.76	4.64	2.72	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
H 700.	347.	13.55	4.55	2.71	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
I 1000.	429.	12.48	4.45	2.70	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
J 1500.	487.	9.13	3.56	2.25	1.59	1.23	1.01	.85	.74	.65	.58	.52	.48
K 2150.	509.	6.70	2.95	1.82	1.29	1.00	.82	.69	.60	.53	.47	.43	.39
L 3000.	509.	4.87	2.39	1.47	1.04	.81	.66	.56	.48	.42	.38	.34	.31
M 4500.	509.	3.20	1.78	1.17	.83	.64	.52	.44	.38	.34	.30	.27	.25
N 6500.	509.	1.83	1.12	.84	.60	.46	.38	.32	.28	.24	.22	.20	.18
O 10000.	509.	.76	.59	.48	.34	.26	.21	.18	.16	.14	.12	.11	.10
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		14.83	4.58	2.67	1.89	1.46	1.19	1.01	.87	.77	.69	.62	.57

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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	.81	1.62	2.41	4.64	7.90	11.97	15.54	22.68	28.11	30.96	32.89	34.38	35.60	36.63	37.53	38.31	39.02	39.65	40.23
B	.76	1.51	2.25	4.32	7.37	11.20	14.55	21.31	26.56	29.37	31.30	32.79	34.01	35.04	35.93	36.72	37.42	38.06	38.64
C	.71	1.40	2.09	4.02	6.87	10.45	13.58	19.94	25.02	27.81	29.74	31.23	32.45	33.48	34.37	35.16	35.86	36.50	37.08
D	.65	1.30	1.93	3.71	6.35	9.68	12.60	18.57	23.49	26.25	28.18	29.67	30.89	31.92	32.81	33.60	34.30	34.94	35.52
E	.60	1.19	1.78	3.42	5.85	8.93	11.63	17.20	22.03	24.77	26.69	28.19	29.41	30.44	31.33	32.11	32.82	33.45	34.04
F	.55	1.09	1.63	3.13	5.36	8.19	10.66	15.83	20.56	23.29	25.22	26.71	27.93	28.96	29.86	30.64	31.35	31.98	32.56
G	.51	1.01	1.51	2.90	4.98	7.61	9.91	14.76	19.40	22.12	24.05	25.54	26.76	27.79	28.69	29.47	30.18	30.81	31.39

SC 5.0UT																			
H	.46	.92	1.37	2.65	4.54	6.95	9.05	13.55	18.09	20.80	22.73	24.23	25.44	26.47	27.37	28.15	28.86	29.49	30.07
I	.43	.85	1.26	2.42	4.16	6.38	8.31	12.48	16.93	19.64	21.56	23.06	24.28	25.31	26.20	26.99	27.69	28.33	28.91
J	.16	.31	.47	.94	1.86	3.66	5.33	9.13	12.69	14.94	16.53	17.76	18.77	19.62	20.35	21.00	21.58	22.11	22.59
K	.11	.23	.34	.68	1.35	2.64	3.86	6.70	9.65	11.47	12.77	13.77	14.58	15.27	15.87	16.40	16.87	17.30	17.68
L	.08	.16	.24	.49	.96	1.89	2.77	4.87	7.26	8.73	9.77	10.58	11.24	11.79	12.27	12.70	13.08	13.42	13.74
M	.05	.10	.16	.31	.62	1.22	1.78	3.20	4.98	6.15	6.98	7.62	8.14	8.59	8.97	9.31	9.61	9.88	10.13
N	.03	.06	.09	.18	.35	.68	1.00	1.83	2.95	3.80	4.39	4.86	5.23	5.55	5.83	6.07	6.29	6.49	6.67
O	.01	.02	.03	.07	.14	.27	.40	.76	1.35	1.82	2.16	2.42	2.64	2.82	2.97	3.11	3.23	3.34	3.45
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	.50	.99	1.48	2.85	4.90	7.57	9.90	14.83	19.40	22.08	23.97	25.43	26.62	27.63	28.50	29.27	29.96	30.58	31.15

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.09	.09	0700	.11	.68	1300	.15	1.40	1900	.20	2.33
0200	.09	.19	0800	.11	.80	1400	.15	1.55	2000	.20	2.53
0300	.09	.28	0900	.11	.91	1500	.15	1.69	2100	.20	2.73
0400	.09	.38	1000	.11	1.03	1600	.15	1.84	2200	.20	2.93
0500	.09	.47	1100	.11	1.14	1700	.15	1.98	2300	.20	3.12
0600	.09	.57	1200	.11	1.26	1800	.15	2.13	2400	.20	3.32
6-HR TOTAL	.57		.69			.87			1.19		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.28	3.60	0700	.59	5.80	1300	1.31	11.10	1900	.54	25.15
0200	.29	3.89	0800	.64	6.43	1400	1.90	13.00	2000	.49	25.64
0300	.30	4.20	0900	.71	7.14	1500	2.67	15.67	2100	.45	26.10
0400	.32	4.52	1000	.79	7.93	1600	4.90	20.57	2200	.42	26.52
0500	.34	4.85	1100	.88	8.80	1700	2.34	22.90	2300	.40	26.91
0600	.36	5.21	1200	.98	9.79	1800	1.71	24.61	2400	.58	27.29
6-HR TOTAL	1.89		4.58			14.83			2.67		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	27.53	0700	.17	28.92	1300	.13	29.89	1900	.10	30.63
0200	.24	27.78	0800	.17	29.09	1400	.13	30.02	2000	.10	30.74
0300	.24	28.02	0900	.17	29.26	1500	.13	30.14	2100	.10	30.84
0400	.24	28.26	1000	.17	29.42	1600	.13	30.27	2200	.10	30.94
0500	.24	28.51	1100	.17	29.59	1700	.13	30.40	2300	.10	31.05
0600	.24	28.75	1200	.17	29.76	1800	.13	30.53	2400	.10	31.15
6-HR TOTAL	1.46		1.01			.77			.62		

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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 = 315., PREFERRED ORIENTATION = 215.
 Page 4

STORM CENTER COORDINATES, X = SC 5.0UT 361.0, Y = 304.0														
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR	INCREMENTS	OF PMS	9	10	11	12
A 10.	0.	22.68	5.44	2.85	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
B 25.	0.	21.31	5.25	2.81	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
C 50.	5.	19.94	5.08	2.79	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
D 100.	21.	18.57	4.92	2.76	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
E 175.	50.	17.20	4.83	2.74	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
F 300.	103.	15.83	4.73	2.73	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
G 450.	169.	14.76	4.64	2.72	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
H 700.	269.	13.55	4.55	2.71	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
I 1000.	344.	12.48	4.45	2.70	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	
J 1500.	394.	9.13	3.56	2.25	1.59	1.23	1.01	.85	.74	.65	.58	.52	.48	
K 2150.	411.	6.70	2.95	1.82	1.29	1.00	.82	.69	.60	.53	.47	.43	.39	
L 3000.	411.	4.87	2.39	1.47	1.04	.81	.66	.56	.48	.42	.38	.34	.31	
M 4500.	411.	3.20	1.78	1.17	.83	.64	.52	.44	.38	.34	.30	.27	.25	
N 6500.	411.	1.83	1.12	.84	.60	.46	.38	.32	.28	.24	.22	.20	.18	
O 10000.	411.	.76	.59	.48	.34	.26	.21	.18	.16	.14	.12	.11	.10	
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		14.29	4.53	2.67	1.89	1.46	1.19	1.01	.87	.77	.69	.62	.57	

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	.81	1.62	2.41	4.64	7.90	11.97	15.54	22.68	28.11	30.96	32.89	34.38	35.60	36.63	37.53	38.31	39.02	39.65	40.23
B	.76	1.51	2.25	4.32	7.37	11.20	14.55	21.31	26.56	29.37	31.30	32.79	34.01	35.04	35.93	36.72	37.42	38.06	38.64
C	.71	1.40	2.09	4.02	6.87	10.45	13.58	19.94	25.02	27.81	29.74	31.23	32.45	33.48	34.37	35.16	35.86	36.50	37.08
D	.65	1.30	1.93	3.71	6.35	9.68	12.60	18.57	23.49	26.25	28.18	29.67	30.89	31.92	32.81	33.60	34.30	34.94	35.52
E	.60	1.19	1.78	3.42	5.85	8.93	11.63	17.20	22.03	24.77	26.69	28.19	29.41	30.44	31.33	32.11	32.82	33.45	34.04
F	.55	1.09	1.63	3.13	5.36	8.19	10.66	15.83	20.56	23.29	25.22	26.71	27.93	28.96	29.86	30.64	31.35	31.98	32.56
G	.51	1.01	1.51	2.90	4.98	7.61	9.91	14.76	19.40	22.12	24.05	25.54	26.76	27.79	28.69	29.47	30.18	30.81	31.39
H	.46	.92	1.37	2.65	4.54	6.95	9.05	13.55	18.09	20.80	22.73	24.23	25.44	26.47	27.37	28.15	28.86	29.49	30.07
I	.43	.85	1.26	2.42	4.16	6.38	8.31	12.48	16.93	19.64	21.56	23.06	24.28	25.31	26.20	26.99	27.69	28.33	28.91
J	.16	.31	.47	.94	1.86	3.66	5.33	9.13	12.69	14.94	16.53	17.76	18.77	19.62	20.35	21.00	21.58	22.11	22.59
K	.11	.23	.34	.68	1.35	2.64	3.86	6.70	9.65	11.47	12.77	13.77	14.58	15.27	15.87	16.40	16.87	17.30	17.68
L	.08	.16	.24	.49	.96	1.89	2.77	4.87	7.26	8.73	9.77	10.58	11.24	11.79	12.27	12.70	13.08	13.42	13.74
M	.05	.10	.16	.31	.62	1.22	1.78	3.20	4.98	6.15	6.98	7.62	8.14	8.59	8.97	9.31	9.61	9.88	10.13
N	.03	.06	.09	.18	.35	.68	1.00	1.83	2.95	3.80	4.39	4.86	5.23	5.55	5.83	6.07	6.29	6.49	6.67
O	.01	.02	.03	.07	.14	.27	.40	.76	1.35	1.82	2.16	2.42	2.64	2.82	2.97	3.11	3.23	3.34	3.45
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	.48	.95	1.42	2.73	4.70	7.27	9.52	14.29	18.82	21.48	23.37	24.83	26.03	27.04	27.91	28.68	29.37	29.99	30.56

PROBABLE MAXIMUM STORM FOR BASIN4												
DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.09	.09	0700	.11	.68	1300	.15	1.40	1900	.20	2.33
	0200	.09	.19	0800	.11	.80	1400	.15	1.55	2000	.20	2.53
	0300	.09	.28	0900	.11	.91	1500	.15	1.69	2100	.20	2.73
	0400	.09	.38	1000	.11	1.03	1600	.15	1.84	2200	.20	2.93
	0500	.09	.47	1100	.11	1.14	1700	.15	1.99	2300	.20	3.13
	0600	.09	.57	1200	.11	1.26	1800	.15	2.13	2400	.20	3.32
6-HR TOTAL		.57			.69			.87			1.19	
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.28	3.60	0700	.58	5.79	1300	1.28	11.02	1900	.54	24.56
	0200	.29	3.89	0800	.63	6.43	1400	1.84	12.85	2000	.49	25.05
	0300	.30	4.20	0900	.70	7.13	1500	2.57	15.42	2100	.45	25.51
	0400	.32	4.52	1000	.78	7.91	1600	4.70	20.13	2200	.42	25.93
	0500	.34	4.85	1100	.87	8.77	1700	2.25	22.37	2300	.39	26.32
	0600	.36	5.21	1200	.97	9.74	1800	1.65	24.03	2400	.38	26.70
6-HR TOTAL		1.89			4.53			14.29			2.67	
DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.24	26.94	0700	.17	28.33	1300	.13	29.29	1900	.10	30.04
	0200	.24	27.18	0800	.17	28.49	1400	.13	29.42	2000	.10	30.14
	0300	.24	27.43	0900	.17	28.66	1500	.13	29.55	2100	.10	30.25
	0400	.24	27.67	1000	.17	28.83	1600	.13	29.68	2200	.10	30.35
	0500	.24	27.91	1100	.17	29.00	1700	.13	29.81	2300	.10	30.46
	0600	.24	28.16	1200	.17	29.17	1800	.13	29.94	2400	.10	30.56
6-HR TOTAL		1.46			1.01			.77			.62	

SUBBASIN3																				
SC 5.OUT																				
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 = 315., PREFERRED ORIENTATION = 215.																				
STORM CENTER COORDINATES, X = 361.0, Y = 304.0																				
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	FOR 6-HOUR	INCREMENTS OF PMS	9	10	11	12									
					4	5	6	7	8											
A 10.	0.	22.68	5.44	2.85	1.93	1.49	1.22	1.03	.89	.79	.58									
B 25.	0.	21.31	5.25	2.81	1.93	1.49	1.22	1.03	.89	.79	.58									
C 50.	0.	19.94	5.08	2.79	1.93	1.49	1.22	1.03	.89	.79	.58									
D 100.	0.	18.57	4.92	2.76	1.93	1.49	1.22	1.03	.89	.79	.58									
E 175.	0.	17.20	4.83	2.74	1.93	1.49	1.22	1.03	.89	.79	.58									
F 300.	0.	15.83	4.73	2.73	1.93	1.49	1.22	1.03	.89	.79	.58									
G 450.	1.	14.76	4.64	2.72	1.93	1.49	1.22	1.03	.89	.79	.58									
H 700.	4.	13.55	4.55	2.71	1.93	1.49	1.22	1.03	.89	.79	.58									
I 1000.	11.	12.48	4.45	2.70	1.93	1.49	1.22	1.03	.89	.79	.58									
J 1500.	18.	9.13	3.56	2.25	1.59	1.23	1.01	.85	.74	.65	.58									
K 2150.	24.	6.70	2.95	1.82	1.29	1.00	.82	.69	.60	.53	.47									
L 3000.	24.	4.87	2.39	1.47	1.04	.81	.66	.56	.48	.42	.38									
M 4500.	24.	3.20	1.78	1.17	.83	.64	.52	.44	.38	.34	.30									
N 6500.	24.	1.83	1.12	.84	.60	.46	.38	.32	.28	.24	.22									
O 10000.	24.	.76	.59	.48	.34	.26	.21	.18	.16	.14	.12									
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00									
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00									
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00									
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00									
AVERAGE DEPTH		11.21	4.04	2.46	1.75	1.36	1.11	.93	.81	.71	.64									
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	.81	1.62	2.41	4.64	7.90	11.97	15.54	22.68	28.11	30.96	32.89	34.38	35.60	36.63	37.53	38.31	39.02	39.65	40.23	
B	.76	1.51	2.25	4.32	7.37	11.20	14.55	21.31	26.56	29.37	31.30	32.79	34.01	35.04	35.93	36.72	37.42	38.06	38.64	
C	.71	1.40	2.09	4.02	6.87	10.45	13.58	19.94	25.02	27.81	29.74	31.23	32.45	33.48	34.37	35.16	35.86	36.50	37.08	
D	.65	1.30	1.93	3.71	6.35	9.68	12.60	18.57	23.49	26.25	28.18	29.67	30.89	31.92	32.81	33.60	34.30	34.94	35.52	
E	.60	1.19	1.78	3.42	5.85	8.93	11.63	17.20	22.03	24.77	26.69	28.19	29.41	30.44	31.33	32.11	32.82	33.45	34.04	
F	.55	1.09	1.63	3.13	5.36	8.19	10.66	15.83	20.56	23.29	25.22	26.71	27.93	28.96	29.86	30.64	31.35	31.98	32.56	
G	.51	1.01	1.51	2.90	4.98	7.61	9.91	14.76	19.40	22.12	24.05	25.54	26.76	27.79	28.69	29.47	30.18	30.81	31.39	
H	.46	.92	1.37	2.65	4.54	6.95	9.05	13.55	18.09	20.80	22.73	24.23	25.44	26.47	27.37	28.15	28.86	29.49	30.07	
I	.43	.85	1.26	2.42	4.16	6.38	8.31	12.48	16.93	19.64	21.56	23.06	24.28	25.31	26.20	26.99	27.69	28.33	28.91	
J	.16	.31	.47	.94	1.86	3.66	5.33	9.13	12.69	14.94	16.53	17.76	18.77	19.62	20.35	21.00	21.58	22.11	22.59	
K	.11	.23	.34	.68	1.35	2.64	3.86	6.70	9.65	11.47	12.77	13.77	14.58	15.27	15.87	16.40	16.87	17.30	17.68	
L	.08	.16	.24	.49	.96	1.89	2.77	4.87	7.26	8.73	9.77	10.58	11.24	11.79	12.27	12.70	13.08	13.42	13.74	
M	.05	.10	.16	.31	.62	1.22	1.78	3.20	4.98	6.15	6.98	7.62	8.14	8.59	8.97	9.31	9.61	9.88	10.13	
N	.03	.06	.09	.18	.35	.68	1.00	1.83	2.95	3.80	4.39	4.86	5.23	5.55	5.83	6.07	6.29	6.49	6.67	
O	.01	.02	.03	.07	.14	.27	.40	.76	1.35	1.82	2.16	2.42	2.64	2.82	2.97	3.11	3.23	3.34	3.45	
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		.32	.65	.96	1.86	3.30	5.36	7.19	11.21	15.25	17.72	19.47	20.82	21.93	22.86	23.67	24.39	25.03	25.60	26.13
1																				
PROBABLE MAXIMUM STORM FOR BASIN3																				
DAY 1	TIME	PRECIPITATION INCR	TOTAL	DAY 2	TIME	PRECIPITATION INCR	TOTAL	DAY 3	TIME	PRECIPITATION INCR	TOTAL									
	0100	.09	.09	0700	.11	.63	1.30	1300	.13	1.30	2.60									
	0200	.09	.18	0800	.11	.74	1.44	1400	.13	1.44	2.76									
	0300	.09	.26	0900	.11	.85	1.57	1500	.13	1.57	2.91									
	0400	.09	.35	1000	.11	.95	1.71	1600	.13	1.71	3.04									
	0500	.09	.44	1100	.11	1.06	1.84	1700	.13	1.84	3.17									
	0600	.09	.53	1200	.11	1.17	1.97	1800	.13	1.97	3.30									
6-HR TOTAL			.53		.64				.81											

SC 5.0UT											
DAY 2											
TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		INCR	TOTAL
0100	.26	3.34	0700	.53	5.36	1300	1.10	9.97	1900	.49	20.57
0200	.27	3.61	0800	.57	5.93	1400	1.53	11.50	2000	.45	21.03
0300	.28	3.89	0900	.63	6.56	1500	2.06	13.56	2100	.42	21.44
0400	.30	4.19	1000	.69	7.25	1600	3.30	16.86	2200	.39	21.83
0500	.31	4.50	1100	.77	8.02	1700	1.83	18.69	2300	.37	22.20
0600	.33	4.83	1200	.85	8.87	1800	1.39	20.08	2400	.35	22.55
6-HR TOTAL	1.75		4.04			11.21			2.46		

DAY 3											
TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		INCR	TOTAL
0100	.23	22.77	0700	.16	24.06	1300	.12	24.96	1900	.10	25.65
0200	.23	23.00	0800	.16	24.22	1400	.12	25.08	2000	.10	25.74
0300	.23	23.23	0900	.16	24.37	1500	.12	25.20	2100	.10	25.84
0400	.23	23.45	1000	.16	24.53	1600	.12	25.31	2200	.10	25.94
0500	.23	23.68	1100	.16	24.68	1700	.12	25.43	2300	.10	26.03
0600	.23	23.90	1200	.16	24.84	1800	.12	25.55	2400	.10	26.13
6-HR TOTAL	1.36		.93			.71			.58		

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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

STORM AREA = 1000. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN2
 STORM CENTER COORDINATES, X = 361.0, Y = 304.0, ORIENTATION = 315., PREFERRED ORIENTATION = 215.

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	4	5	6	7	8	9	10	11	12
DEPTHS (INCHES)													
A 10.	0.	22.68	5.44	2.85	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
B 25.	0.	21.31	5.25	2.81	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
C 50.	0.	19.94	5.08	2.79	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
D 100.	0.	18.57	4.92	2.76	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
E 175.	0.	17.20	4.83	2.74	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
F 300.	1.	15.83	4.73	2.73	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
G 450.	5.	14.76	4.64	2.72	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
H 700.	10.	13.55	4.55	2.71	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
I 1000.	10.	12.48	4.45	2.70	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58
J 1500.	10.	9.13	3.56	2.25	1.59	1.23	1.01	.85	.74	.65	.58	.52	.48
K 2150.	10.	6.70	2.95	1.82	1.29	1.00	.82	.69	.60	.53	.47	.43	.39
L 3000.	10.	4.87	2.39	1.47	1.04	.81	.66	.56	.48	.42	.38	.34	.31
M 4500.	10.	3.20	1.78	1.17	.83	.64	.52	.44	.38	.34	.30	.27	.25
N 6500.	10.	1.83	1.12	.84	.60	.46	.38	.32	.28	.24	.22	.20	.18
O 10000.	10.	.76	.59	.48	.34	.26	.21	.18	.16	.14	.12	.11	.10
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		14.62	4.63	2.72	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.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	.81	1.62	2.41	4.64	7.90	11.97	15.54	22.68	28.11	30.96	32.89	34.38	35.60	36.63	37.53	38.31	39.02	39.65	40.23
B	.76	1.51	2.25	4.32	7.37	11.20	14.55	21.31	26.56	29.37	31.30	32.79	34.01	35.04	35.93	36.72	37.42	38.06	38.64
C	.71	1.40	2.09	4.02	6.87	10.45	13.58	19.94	25.02	27.81	29.74	31.23	32.45	33.48	34.37	35.16	35.86	36.50	37.08
D	.65	1.30	1.93	3.71	6.35	9.68	12.60	18.57	23.49	26.25	28.18	29.67	30.89	31.92	32.81	33.60	34.30	34.94	35.52
E	.60	1.19	1.78	3.42	5.85	8.93	11.63	17.20	22.03	24.77	26.69	28.19	29.41	30.44	31.33	32.11	32.82	33.45	34.04
F	.55	1.09	1.63	3.13	5.36	8.19	10.66	15.83	20.56	23.29	25.22	26.71	27.93	28.96	29.86	30.64	31.35	31.98	32.56
G	.51	1.01	1.51	2.90	4.98	7.61	9.91	14.76	19.40	22.12	24.05	25.54	26.76	27.79	28.69	29.47	30.18	30.81	31.39
H	.46	.92	1.37	2.65	4.54	6.95	9.05	13.55	18.09	20.80	22.73	24.23	25.44	26.47	27.37	28.15	28.86	29.49	30.07
I	.43	.85	1.26	2.42	4.16	6.38	8.31	12.48	16.93	19.64	21.56	23.06	24.28	25.31	26.20	26.99	27.69	28.33	28.91
J	.41	.81	1.21	2.34	4.06	6.24	8.16	12.31	16.76	19.47	21.39	22.90	24.12	25.15	26.04	26.83	27.53	28.17	28.75
K	.41	.81	1.21	2.34	4.06	6.24	8.16	12.31	16.76	19.47	21.39	22.90	24.12	25.15	26.04	26.83	27.53	28.17	28.75
L	.41	.81	1.21	2.34	4.06	6.24	8.16	12.31	16.76	19.47	21.39	22.90	24.12	25.15	26.04	26.83	27.53	28.17	28.75
M	.41	.81	1.21	2.34	4.06	6.24	8.16	12.31	16.76	19.47	21.39	22.90	24.12	25.15	26.04	26.83	27.53	28.17	28.75
N	.41	.81	1.21	2.34	4.06	6.24	8.16	12.31	16.76	19.47	21.39	22.90	24.12	25.15	26.04	26.83	27.53	28.17	28.75
O	.41	.81	1.21	2.34	4.06	6.24	8.16	12.31	16.76	19.47	21.39	22.90	24.12	25.15	26.04	26.83	27.53	28.17	28.75
P	.41	.81	1.21	2.34	4.06	6.24	8.16	12.31	16.76	19.47	21.39	22.90	24.12	25.15	26.04	26.83	27.53	28.17	28.75
Q	.41	.81	1.21	2.34	4.06	6.24	8.16	12.31	16.76	19.47	21.39	22.90	24.12	25.15	26.04	26.83	27.53	28.17	28.75

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1

DAY 3	PRECIPITATION		PRECIPITATION		PRECIPITATION		PRECIPITATION	
	TIME	INCR TOTAL	TIME	INCR TOTAL	TIME	INCR TOTAL	TIME	INCR TOTAL
	0100	.25 27.55	0700	.17 28.96	1300	.13 29.95	1900	.11 30.72
	0200	.25 27.80	0800	.17 29.14	1400	.13 30.08	2000	.11 30.82
	0300	.25 28.05	0900	.17 29.31	1500	.13 30.22	2100	.11 30.93
	0400	.25 28.29	1000	.17 29.48	1600	.13 30.35	2200	.11 31.03
	0500	.25 28.54	1100	.17 29.65	1700	.13 30.48	2300	.11 31.14
	0600	.25 28.79	1200	.17 29.82	1800	.13 30.61	2400	.11 31.25
6-HR TOTAL	1.49		1.03		.79		.64	

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

1

SC 5.0UT

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	.81	1.62	2.41	4.64	7.90	11.97	15.54	22.68	28.11	30.96	32.89	34.38	35.60	36.63	37.53	38.31	39.02	39.65	40.23
B	.76	1.51	2.25	4.32	7.37	11.20	14.55	21.31	26.56	29.37	31.30	32.79	34.01	35.04	35.93	36.72	37.42	38.06	38.64
C	.71	1.40	2.09	4.02	6.87	10.45	13.58	19.94	25.02	27.81	29.74	31.23	32.45	33.48	34.37	35.16	35.86	36.50	37.08
D	.65	1.30	1.93	3.71	6.35	9.68	12.60	18.57	23.49	26.25	28.18	29.67	30.89	31.92	32.81	33.60	34.30	34.94	35.52
E	.60	1.19	1.78	3.42	5.85	8.93	11.63	17.20	22.03	24.77	26.69	28.19	29.41	30.44	31.33	32.11	32.82	33.45	34.04
F	.55	1.09	1.63	3.13	5.36	8.19	10.66	15.83	20.56	23.29	25.22	26.71	27.93	28.96	29.86	30.64	31.35	31.98	32.56
G	.51	1.01	1.51	2.90	4.98	7.61	9.91	14.76	19.40	22.12	24.05	25.54	26.76	27.79	28.69	29.47	30.18	30.81	31.39
H	.46	.92	1.37	2.65	4.54	6.95	9.05	13.55	18.09	20.80	22.73	24.23	25.44	26.47	27.37	28.15	28.86	29.49	30.07
I	.43	.85	1.26	2.42	4.16	6.38	8.31	12.48	16.93	19.64	21.56	23.06	24.28	25.31	26.20	26.99	27.69	28.33	28.91
J	.41	.81	1.20	2.34	3.96	5.94	7.76	11.69	15.93	18.44	20.26	21.76	22.97	23.99	24.91	25.74	26.50	27.18	27.79
K	.38	.76	1.13	2.16	3.56	5.26	6.96	10.59	14.53	17.76	19.47	20.97	22.18	23.20	24.12	24.95	25.70	26.38	27.00
L	.35	.71	1.07	1.99	3.24	4.74	6.36	9.61	13.24	15.97	17.78	19.28	20.49	21.51	22.43	23.26	24.01	24.69	25.31
M	.33	.66	1.00	1.84	3.00	4.40	5.96	8.96	12.39	14.82	16.43	17.93	19.14	20.16	21.08	21.91	22.66	23.34	23.96
N	.31	.62	.94	1.72	2.80	4.12	5.64	8.52	11.71	14.04	15.65	17.15	18.36	19.38	20.30	21.13	21.88	22.56	23.18
O	.30	.60	.90	1.65	2.70	4.00	5.50	8.30	11.40	13.70	15.30	16.80	18.00	19.00	19.90	20.70	21.45	22.13	22.75
P	.29	.58	.87	1.60	2.64	3.96	5.44	8.24	11.36	13.66	15.26	16.76	17.96	18.96	19.86	20.66	21.41	22.09	22.71
Q	.28	.56	.84	1.56	2.59	3.90	5.36	8.16	11.28	13.58	15.18	16.68	17.88	18.88	19.78	20.58	21.33	22.01	22.63
R	.27	.54	.81	1.52	2.56	3.86	5.32	8.12	11.24	13.54	15.14	16.64	17.84	18.84	19.74	20.54	21.29	21.97	22.59
S	.26	.52	.78	1.48	2.52	3.82	5.28	8.08	11.20	13.50	15.10	16.60	17.80	18.80	19.70	20.50	21.25	21.93	22.55
AVERAGE	.70	1.38	2.06	3.96	6.77	10.30	13.38	19.66	24.74	27.53	29.46	30.95	32.17	33.20	34.09	34.88	35.58	36.22	36.80

1

PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.70	1300	.15	1.43	1900	.20	2.38
0200	.10	.19	0800	.12	.82	1400	.15	1.58	2000	.20	2.58
0300	.10	.29	0900	.12	.93	1500	.15	1.73	2100	.20	2.79
0400	.10	.39	1000	.12	1.05	1600	.15	1.88	2200	.20	2.99
0500	.10	.48	1100	.12	1.17	1700	.15	2.03	2300	.20	3.19
0600	.10	.58	1200	.12	1.28	1800	.15	2.18	2400	.20	3.40
6-HR TOTAL	.58		.70			.89			1.22		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.28	3.68	0700	.63	5.95	1300	1.61	12.01	1900	.57	30.64
0200	.30	3.98	0800	.69	6.64	1400	2.47	14.48	2000	.52	31.15
0300	.31	4.28	0900	.77	7.41	1500	3.53	18.01	2100	.47	31.63
0400	.33	4.61	1000	.87	8.28	1600	6.77	24.78	2200	.43	32.06
0500	.35	4.96	1100	.99	9.27	1700	3.09	27.87	2300	.41	32.47
0600	.37	5.32	1200	1.13	10.41	1800	2.20	30.07	2400	.39	32.85
6-HR TOTAL	1.93		5.08			19.66			2.79		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	33.10	0700	.17	34.52	1300	.13	35.51	1900	.11	36.27
0200	.25	33.35	0800	.17	34.69	1400	.13	35.64	2000	.11	36.38
0300	.25	33.60	0900	.17	34.86	1500	.13	35.77	2100	.11	36.48
0400	.25	33.85	1000	.17	35.03	1600	.13	35.90	2200	.11	36.59
0500	.25	34.10	1100	.17	35.21	1700	.13	36.03	2300	.11	36.69
0600	.25	34.35	1200	.17	35.38	1800	.13	36.16	2400	.11	36.80
6-HR TOTAL	1.49		1.03			.79			.64		

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SC 6.0UT

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*****
*
* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
*
* RUN DATE 06/25/2008 TIME 09:52:45
*
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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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H H M M RRRRRR 555555 22222
H H MM MM R R 5 2 2
H H M M M R R 5 2 2
HHHHHH M M M RRRRRR 555555
H H M M R R 5 2 2
H H M M R R 5 2 2
H H M M R R 55555 2222222

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HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

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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 SQUAW CREEK BASIN AT SC6
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 337 327
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 BY 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

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HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 2

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1
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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Page 1

SC 6.OUT

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									

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87      ZZ
1*****
*
*      PROBABLE MAXIMUM STORM (HMR52)
*      NOVEMBER 1982
*      REVISED APRIL 91
*
*      RUN DATE 06/25/2008   TIME 09:52:45
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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 SQUAW CREEK BASIN AT SC6
 CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (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

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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

SC 6.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

1

VARYING STORM AREA SIZE AND FIXED ORIENTATION													SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENT- TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS											
10.	141.	7.37	1.36	.75	.52	.40	.33	.27	.24	.21	.19	.17	.15
25.	141.	9.80	2.06	1.20	.84	.64	.52	.44	.38	.34	.30	.27	.25
50.	141.	11.52	2.59	1.53	1.08	.83	.68	.57	.49	.44	.39	.35	.32
100.	141.	12.90	3.05	1.85	1.31	1.01	.83	.70	.61	.53	.48	.43	.39
175.	141.	14.00	3.40	2.09	1.49	1.16	.95	.80	.70	.61	.55	.50	.45
300.	141.	14.88	3.84	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51
450.	141.	15.43	4.16	2.52	1.79	1.39	1.14	.96	.83	.74	.66	.60	.54
700.	141.	15.48	4.45	2.64	1.87	1.45	1.18	1.00	.87	.77	.68	.62	.57
1000.	141.	15.17	4.61	2.68	1.89	1.46	1.17	.99	.86	.76	.68	.61	.56
1500.	141.	14.41	4.39	2.58	1.83	1.43	1.17	.99	.86	.76	.68	.61	.56
2150.	141.	13.43	4.10	2.44	1.74	1.36	1.12	.95	.82	.73	.65	.59	.54
3000.	141.	12.26	3.79	2.26	1.62	1.27	1.05	.89	.78	.69	.62	.56	.51
4500.	141.	11.57	3.63	2.20	1.59	1.26	1.04	.89	.77	.68	.61	.56	.51
6500.	141.	11.07	3.43	2.09	1.52	1.20	1.00	.85	.75	.66	.59	.54	.49
10000.	141.	10.37	3.16	1.94	1.41	1.13	.94	.80	.70	.62	.56	.51	.47
15000.	141.	9.69	2.96	1.81	1.32	1.06	.88	.76	.66	.59	.53	.48	.44
20000.	141.	9.05	2.81	1.72	1.26	1.01	.84	.72	.63	.56	.51	.46	.42

FIXED STORM AREA SIZE AND VARYING ORIENTATION													SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENT- TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS											
700.	140.	15.47	4.45	2.64	1.87	1.45	1.18	1.00	.87	.77	.68	.62	.57
700.	150.	15.46	4.44	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56
700.	160.	15.37	4.43	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56
700.	170.	15.17	4.40	2.62	1.85	1.44	1.17	.99	.86	.76	.68	.61	.56
700.	180.	14.86	4.34	2.59	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55
700.	190.	14.52	4.27	2.54	1.80	1.40	1.14	.96	.84	.74	.66	.60	.54
700.	200.	14.25	4.20	2.50	1.77	1.37	1.12	.95	.82	.73	.65	.59	.54
700.	210.	14.08	4.16	2.48	1.75	1.36	1.11	.94	.81	.72	.64	.58	.53
700.	220.	14.01	4.14	2.47	1.75	1.35	1.11	.94	.81	.71	.64	.58	.53
700.	230.	14.04	4.15	2.47	1.75	1.36	1.11	.94	.81	.72	.64	.58	.53
700.	240.	14.13	4.17	2.48	1.76	1.36	1.11	.94	.82	.72	.64	.58	.53
700.	250.	14.25	4.20	2.50	1.77	1.37	1.12	.95	.82	.73	.65	.59	.54
700.	260.	14.33	4.21	2.51	1.78	1.38	1.13	.95	.83	.73	.65	.59	.54
700.	270.	14.41	4.23	2.52	1.78	1.38	1.13	.96	.83	.73	.65	.59	.54
700.	280.	14.53	4.25	2.53	1.79	1.39	1.14	.96	.83	.73	.66	.59	.54
700.	290.	14.81	4.31	2.57	1.82	1.41	1.15	.97	.84	.74	.67	.60	.55
700.	300.	15.07	4.37	2.60	1.84	1.43	1.17	.99	.86	.75	.67	.61	.56
700.	310.	15.33	4.42	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56
700.	136.	15.45	4.44	2.64	1.87	1.45	1.18	1.00	.87	.77	.68	.62	.57
700.	146.	15.49	4.44	2.64	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56

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PROBABLE MAXIMUM STORM FOR CPNPP
 STORM AREA = 700. SQ. MI., ORIENTATION = 146., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 337.0, Y = 327.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR INCREMENTS OF	6	7	8	9	10	11	12
A 10.	10.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
B 25.	25.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
C 50.	45.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
D 100.	79.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
E 175.	123.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
F 300.	190.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
G 450.	268.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
H 700.	380.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
I 1000.	433.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50		
J 1500.	485.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42		
K 2150.	509.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35		
L 3000.	509.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28		
M 4500.	509.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22		
N 6500.	509.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15		
O 10000.	509.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		15.49	4.44	2.64	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56		

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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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29

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		SC 6.OUT																											
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83										
I	.18	.37	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68										
J	.14	.28	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79										
K	.10	.21	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76										
L	.08	.15	.23	.46	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37										
M	.05	.10	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06										
N	.03	.06	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72										
O	.01	.02	.03	.06	.13	.25	.37	.67	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69										
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	5.34	8.11	10.51	15.49	19.93	22.57	24.43	25.88	27.06	28.06	28.93	29.69	30.38	31.00	31.56										

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.09	.09	0700	.11	.68	1300	.14	1.39	1900	.20	2.31
0200	.09	.19	0800	.11	.79	1400	.14	1.54	2000	.20	2.51
0300	.09	.28	0900	.11	.91	1500	.14	1.68	2100	.20	2.71
0400	.09	.38	1000	.11	1.02	1600	.14	1.83	2200	.20	2.90
0500	.09	.47	1100	.11	1.13	1700	.14	1.97	2300	.20	3.10
0600	.09	.56	1200	.11	1.25	1800	.14	2.11	2400	.20	3.30
6-HR TOTAL	.56		.68			.87			1.18		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.28	3.57	0700	.57	5.73	1300	1.31	10.92	1900	.53	25.62
0200	.29	3.86	0800	.62	6.35	1400	1.93	12.85	2000	.48	26.11
0300	.30	4.16	0900	.68	7.03	1500	2.77	15.62	2100	.45	26.55
0400	.32	4.48	1000	.76	7.79	1600	5.34	20.96	2200	.42	26.97
0500	.33	4.81	1100	.85	8.64	1700	2.40	23.36	2300	.39	27.36
0600	.35	5.16	1200	.96	9.61	1800	1.73	25.09	2400	.37	27.73
6-HR TOTAL	1.87		4.44			15.49			2.64		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	27.97	0700	.17	29.34	1300	.13	30.30	1900	.10	31.04
0200	.24	28.21	0800	.17	29.51	1400	.13	30.43	2000	.10	31.15
0300	.24	28.45	0900	.17	29.68	1500	.13	30.56	2100	.10	31.25
0400	.24	28.69	1000	.17	29.84	1600	.13	30.69	2200	.10	31.35
0500	.24	28.94	1100	.17	30.01	1700	.13	30.81	2300	.10	31.46
0600	.24	29.18	1200	.17	30.18	1800	.13	30.94	2400	.10	31.56
6-HR TOTAL	1.45		1.00			.76			.62		

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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

1

PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 700. SQ. MI., ORIENTATION = 146., PREFERRED ORIENTATION = 215.

SC 6.OUT
337.0, Y = 327.0

STORM CENTER COORDINATES, X = 337.0, Y = 327.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) 4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	3.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	11.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	32.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E 175.	66.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F 300.	124.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	195.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H 700.	299.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I 1000.	345.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	390.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K 2150.	410.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L 3000.	411.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M 4500.	411.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N 6500.	411.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O 10000.	411.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		14.87	4.38	2.62	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56

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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.18	.37	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68
J	.14	.28	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
K	.10	.21	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76
L	.08	.15	.23	.46	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37
M	.05	.10	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06
N	.03	.06	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72
O	.01	.02	.03	.06	.13	.25	.37	.67	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69
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	1.54	2.96	5.08	7.74	10.05	14.87	19.24	21.86	23.72	25.17	26.34	27.34	28.20	28.97	29.65	30.26	30.83

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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		TIME	PRECIPITATION INCR	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	2.70					
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	3.29					
6-HR TOTAL	.56				.68				.86				1.18						

DAY 2																			
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.28	3.56		0700	.56	5.71		1300	1.27	10.80		1900	.52	24.91					
0200	.29	3.85		0800	.61	6.32		1400	1.87	12.66		2000	.48	25.39					
0300	.30	4.15		0900	.67	6.99		1500	2.66	15.32		2100	.44	25.84					
0400	.31	4.46		1000	.75	7.74		1600	5.08	20.40		2200	.41	26.25					
0500	.33	4.79		1100	.84	8.58		1700	2.31	22.72		2300	.39	26.64					
0600	.35	5.15		1200	.94	9.52		1800	1.67	24.39		2400	.37	27.01					
6-HR TOTAL	1.86				4.38				14.87				2.62						

DAY 3																			
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.24	27.25		0700	.17	28.62		1300	.13	29.57		1900	.10	30.31					
0200	.24	27.49		0800	.17	28.78		1400	.13	29.70		2000	.10	30.41					
0300	.24	27.73		0900	.17	28.95		1500	.13	29.83		2100	.10	30.52					
0400	.24	27.97		1000	.17	29.12		1600	.13	29.96		2200	.10	30.62					
0500	.24	28.21		1100	.17	29.28		1700	.13	30.08		2300	.10	30.72					
0600	.24	28.45		1200	.17	29.45		1800	.13	30.21		2400	.10	30.83					
6-HR TOTAL	1.44				1.00				.76				.62						

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SUBBASIN3																				
SC 6.OUT																				
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																				
STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN3, ORIENTATION = 146., PREFERRED ORIENTATION = 215.																				
STORM CENTER COORDINATES, X = 337.0, Y = 327.0																				
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR	INCREMENTS OF PMS	9	10	11	12							
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
E 175.	0.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
F 300.	0.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
G 450.	2.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
H 700.	7.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
I 1000.	14.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50							
J 1500.	20.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42							
K 2150.	24.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35							
L 3000.	24.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28							
M 4500.	24.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22							
N 6500.	24.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15							
O 10000.	24.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		11.43	3.81	2.36	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51							
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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	30.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33	
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	29.32	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73	
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21	
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53	
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02	
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40	
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29	
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83	
I	.48	.97	1.45	2.80	4.61	6.78	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68		
J	.44	.92	1.38	2.66	4.35	6.42	9.74	13.40	16.15	17.82	19.11	20.17	21.06	21.83	22.51	23.12	23.68	24.18		
K	.40	.87	1.30	2.52	4.14	6.19	9.48	13.18	15.93	17.60	18.89	19.95	20.84	21.61	22.29	22.90	23.46	23.97		
L	.38	.83	1.24	2.46	4.01	6.05	9.34	13.03	15.78	17.45	18.74	19.80	20.69	21.46	22.14	22.75	23.31	23.82		
M	.35	.80	1.19	2.30	3.90	5.94	9.23	12.92	15.67	17.34	18.63	19.69	20.58	21.35	22.03	22.64	23.20	23.71		
N	.33	.77	1.15	2.20	3.75	5.80	9.12	12.81	15.56	17.23	18.52	19.58	20.47	21.24	21.92	22.53	23.09	23.60		
O	.31	.74	1.12	2.14	3.64	5.69	8.99	12.70	15.45	17.12	18.41	19.47	20.36	21.13	21.81	22.42	22.98	23.49		
P	.30	.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		
R	.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		
AVERAGE	.32	.64	.96	1.86	3.31	5.44	7.33	11.43	15.24	17.60	19.29	20.59	21.66	22.56	23.34	24.03	24.65	25.21	25.71	
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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.48	.97	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68
J	.44	.91	.52	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
K	.40	.85	.48	.74	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76
L	.37	.81	.45	.68	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37
M	.35	.77	.42	.60	.83	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06
N	.33	.72	.40	.57	.77	1.09	1.64	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72	
O	.31	.67	.37	.53	.73	.99	1.37	2.17	2.61	2.91	3.11	3.27	3.41	3.53	3.64	3.74	3.83	3.91	
P	.29	.62	.35	.50	.69	.93	1.25	1.97	2.37	2.67	2.87	3.01	3.12	3.21	3.29	3.37	3.44	3.50	
Q	.27	.58	.33	.47	.65	.87	1.15	1.77	2.11	2.35	2.53	2.66	2.75	2.83	2.90	2.96	3.01	3.06	
R	.25	.54	.31	.44	.61	.83	1.09	1.61	1.91	2.11	2.26	2.38	2.46	2.53	2.59	2.64	2.68	2.72	
S	.23	.51	.29	.41	.57	.79	1.03	1.43	1.68	1.85	1.97	2.07	2.14	2.20	2.25	2.29	2.33	2.36	
AVERAGE	.32	.64	.96	1.86	3.31	5.44	7.33	11.43	15.24	17.60	19.29	20.59	21.66	22.56	23.34	24.03	24.65	25.21	25.71

PROBABLE MAXIMUM STORM FOR BASIN3												
DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.08	.08	0700	.10	.61	1300	.13	1.26	1900	.18	2.08
	0200	.08	.17	0800	.10	.71	1400	.13	1.39	2000	.18	2.26
	0300	.08	.25	0900	.10	.82	1500	.13	1.52	2100	.18	2.44
	0400	.08	.34	1000	.10	.92	1600	.13	1.65	2200	.18	2.62
	0500	.08	.42	1100	.10	1.02	1700	.13	1.78	2300	.18	2.80
	0600	.08	.51	1200	.10	1.13	1800	.13	1.91	2400	.18	2.97
	6-HR TOTAL	.51		.62			.78			1.07		

SC 6.0UT											
DAY 2											
TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		INCR	TOTAL
0100	.25	3.22	0700	.50	5.16	1300	1.09	9.56	1900	.47	20.36
0200	.26	3.48	0800	.54	5.69	1400	1.57	11.14	2000	.43	20.80
0300	.27	3.75	0900	.59	6.28	1500	2.12	13.26	2100	.40	21.20
0400	.28	4.04	1000	.65	6.93	1600	3.31	16.58	2200	.38	21.57
0500	.30	4.34	1100	.73	7.65	1700	1.90	18.47	2300	.35	21.93
0600	.32	4.66	1200	.82	8.47	1800	1.42	19.90	2400	.34	22.26
6-HR TOTAL	1.68			3.81			11.43			2.36	

DAY 3											
TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		INCR	TOTAL
0100	.22	22.48	0700	.15	23.72	1300	.11	24.58	1900	.09	25.25
0200	.22	22.70	0800	.15	23.87	1400	.11	24.70	2000	.09	25.34
0300	.22	22.91	0900	.15	24.02	1500	.11	24.81	2100	.09	25.44
0400	.22	23.13	1000	.15	24.17	1600	.11	24.93	2200	.09	25.53
0500	.22	23.35	1100	.15	24.32	1700	.11	25.04	2300	.09	25.62
0600	.22	23.57	1200	.15	24.47	1800	.11	25.16	2400	.09	25.71
6-HR TOTAL	1.31			.90			.69			.56	

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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
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2
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 = 146., PREFERRED ORIENTATION = 215. STORM CENTER COORDINATES, X = 337.0, Y = 327.0											
ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	DEPTHS (INCHES)	FOR 6-HOUR INCREMENTS OF PMS	8	10	11	12	
					4	5	6	7	9		
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72
E 175.	0.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72
F 300.	3.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72
G 450.	8.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72
H 700.	10.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72
I 1000.	10.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61
J 1500.	10.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51
K 2150.	10.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42
L 3000.	10.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34
M 4500.	10.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27
N 6500.	10.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18
O 10000.	10.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.01	4.63	2.76	1.96	1.52	1.24	1.05	.91	.80	.72

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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	72-HR
A	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24
I	.48	.97	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18
J	.44	.88	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37
K	.40	.81	.39	.76	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41
L	.36	.73	.36	.62	1.09	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09
M	.32	.64	.32	.54	.91	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84
N	.28	.56	.28	.47	.73	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72
O	.24	.48	.24	.39	.62	.81	1.37	2.10	2.61	2.91	3.15	3.35	3.52	3.67	3.81	3.94	4.06	4.18
P	.20	.40	.20	.32	.50	.67	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69	2.77
Q	.16	.32	.16	.25	.40	.53	.87	1.09	1.25	1.38	1.48	1.56	1.63	1.69	1.74	1.79	1.83	1.87

PROBABLE MAXIMUM STORM FOR BASIN2

DAY 3	PRECIPITATION			PRECIPITATION			PRECIPITATION			PRECIPITATION		
	TIME	INCR	TOTAL	TIME	INCR	TOTAL	TIME	INCR	TOTAL	TIME	INCR	TOTAL
	0100	.25	29.07	0700	.18	30.51	1300	.13	31.52	1900	.11	32.30
	0200	.25	29.32	0800	.18	30.68	1400	.13	31.65	2000	.11	32.40
	0300	.25	29.57	0900	.18	30.86	1500	.13	31.79	2100	.11	32.51
	0400	.25	29.83	1000	.18	31.03	1600	.13	31.92	2200	.11	32.62
	0500	.25	30.08	1100	.18	31.21	1700	.13	32.05	2300	.11	32.73
	0600	.25	30.33	1200	.18	31.39	1800	.13	32.19	2400	.11	32.84
	6-HR TOTAL	1.52		1.05			.80			.65		

BOUNDARY COORDINATES FOR BASIN1

SCALE = .0583 MILES PER COORDINATE UNIT
BASIN AREA = 64.1 SQ. MI.
BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN1
ORIENTATION = 146., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 337.0, Y = 327.0

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SC 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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.18	.37	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68
J	.14	.28	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
K	.10	.21	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76
L	.08	.15	.23	.46	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37
M	.05	.10	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06
N	.03	.06	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72
O	.01	.02	.03	.06	.13	.25	.37	.67	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69
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	.80	1.59	2.37	4.57	7.71	11.40	14.58	20.92	26.00	28.82	30.78	32.30	33.55	34.60	35.51	36.31	37.03	37.68	38.27

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PROBABLE MAXIMUM STORM FOR BASIN1

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	2.64
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		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.75	0700	.63	6.05	1300	1.62	12.12	1900	.58	32.00
0200	.30	4.05	0800	.69	6.74	1400	2.50	14.63	2000	.52	32.52
0300	.31	4.37	0900	.77	7.51	1500	3.69	18.31	2100	.48	33.00
0400	.33	4.70	1000	.87	8.38	1600	7.71	26.03	2200	.44	33.44
0500	.35	5.05	1100	.99	9.37	1700	3.18	29.21	2300	.41	33.85
0600	.37	5.42	1200	1.13	10.51	1800	2.22	31.43	2400	.39	34.25
6-HR TOTAL	1.96		5.08			20.92			2.82		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	34.50	0700	.18	35.94	1300	.13	36.95	1900	.11	37.73
0200	.25	34.75	0800	.18	36.12	1400	.13	37.09	2000	.11	37.84
0300	.25	35.01	0900	.18	36.29	1500	.13	37.22	2100	.11	37.95
0400	.25	35.26	1000	.18	36.47	1600	.13	37.35	2200	.11	38.05
0500	.25	35.51	1100	.18	36.64	1700	.13	37.49	2300	.11	38.16
0600	.25	35.77	1200	.18	36.82	1800	.13	37.62	2400	.11	38.27
6-HR TOTAL	1.52		1.05			.80			.65		

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PROBABLE MAXIMUM STORM (HMR52)
NOVEMBER 1982
REVISED APRIL 91

SC 7.OUT

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
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 *
 * PROBABLE MAXIMUM STORM (HMR52)
 * NOVEMBER 1982
 * REVISED APRIL 91
 *
 * RUN DATE 06/25/2008 TIME 09:48:44
 *

 *
 * U.S. ARMY CORPS OF ENGINEERS
 * THE HYDROLOGIC ENGINEERING CENTER
 * 609 SECOND STREET
 * DAVIS, CALIFORNIA 95616
 * (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 SQUAW CREEK BASINAT SC7
 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											
	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61
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

SC 7.0UT

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.	222.	6.24	1.15	.64	.44	.34	.28	.23	.20	.18	.16	.14	.13	8.03	
25.	222.	8.54	1.82	1.06	.74	.57	.46	.39	.34	.30	.27	.24	.22	11.42	
50.	222.	10.18	2.33	1.39	.98	.76	.62	.52	.45	.40	.35	.32	.29	13.91	
100.	222.	11.57	2.80	1.71	1.21	.94	.77	.65	.56	.49	.44	.40	.37	16.08	
175.	222.	12.68	3.16	1.97	1.40	1.09	.89	.75	.65	.58	.52	.47	.43	17.81	
300.	222.	13.64	3.62	2.24	1.60	1.24	1.02	.86	.75	.66	.59	.53	.49	19.50	
450.	222.	14.40	3.99	2.44	1.74	1.35	1.10	.93	.81	.71	.64	.58	.53	20.83	
700.	222.	14.81	4.38	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56	21.82	
1000.	222.	14.92	4.67	2.74	1.94	1.50	1.22	1.03	.90	.79	.71	.64	.58	22.33	
1500.	222.	14.67	4.62	2.74	1.95	1.52	1.24	1.05	.91	.81	.72	.65	.60	22.03	
2150.	222.	14.27	4.51	2.70	1.93	1.51	1.24	1.06	.92	.81	.73	.66	.60	21.49	
3000.	222.	13.77	4.41	2.65	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60	20.83	
4500.	222.	13.01	4.23	2.58	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60	19.82	
6500.	222.	12.45	4.00	2.45	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58	18.90	
10000.	222.	11.66	3.68	2.27	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55	17.62	
15000.	222.	10.91	3.45	2.12	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52	16.48	
20000.	222.	10.19	3.27	2.02	1.48	1.19	.99	.85	.75	.66	.60	.54	.50	15.48	

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.	13.10	4.21	2.48	1.75	1.36	1.11	.93	.81	.71	.64	.58	.53	19.79
1000.	150.	13.15	4.23	2.50	1.76	1.37	1.11	.94	.82	.72	.64	.58	.53	19.88
1000.	160.	13.48	4.34	2.56	1.81	1.40	1.14	.97	.84	.74	.66	.60	.54	20.38
1000.	170.	13.87	4.45	2.63	1.86	1.44	1.17	.99	.86	.76	.68	.61	.56	20.96
1000.	180.	14.23	4.54	2.67	1.89	1.46	1.19	1.01	.87	.77	.69	.62	.57	21.44
1000.	190.	14.48	4.58	2.70	1.90	1.48	1.20	1.02	.88	.78	.69	.63	.57	21.76
1000.	200.	14.68	4.62	2.71	1.92	1.48	1.21	1.02	.89	.78	.70	.63	.58	22.01
1000.	210.	14.84	4.65	2.73	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	22.21
1000.	220.	14.92	4.67	2.74	1.93	1.50	1.22	1.03	.90	.79	.71	.64	.58	22.33
1000.	230.	14.87	4.66	2.74	1.93	1.50	1.22	1.03	.89	.79	.71	.64	.58	22.27
1000.	240.	14.73	4.63	2.72	1.92	1.49	1.22	1.03	.89	.78	.70	.63	.58	22.08
1000.	250.	14.55	4.59	2.70	1.91	1.48	1.20	1.02	.88	.78	.70	.63	.57	21.84
1000.	260.	14.25	4.51	2.65	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56	21.42
1000.	270.	13.85	4.40	2.59	1.83	1.42	1.16	.98	.85	.75	.67	.60	.55	20.84
1000.	280.	13.45	4.28	2.52	1.78	1.38	1.12	.95	.82	.73	.65	.59	.54	20.25
1000.	290.	13.30	4.24	2.50	1.76	1.37	1.11	.94	.82	.72	.64	.58	.53	20.04
1000.	300.	13.19	4.21	2.48	1.75	1.36	1.11	.94	.81	.71	.64	.58	.53	19.88
1000.	310.	13.12	4.20	2.47	1.74	1.35	1.10	.93	.81	.71	.64	.58	.53	19.79
1000.	217.	14.90	4.67	2.74	1.93	1.50	1.22	1.03	.89	.79	.71	.64	.58	22.31
1000.	227.	14.89	4.67	2.74	1.93	1.50	1.22	1.03	.89	.79	.71	.64	.58	22.30

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PROBABLE MAXIMUM STORM FOR CPNPP
 STORM AREA = 1000. SQ. MI., ORIENTATION = 222., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 352.0, Y = 441.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR	INCREMENTS OF PMS	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.	12.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60			
C 50.	25.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60			
D 100.	51.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60			
E 175.	90.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60			
F 300.	153.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60			
G 450.	226.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60			
H 700.	326.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60			
I 1000.	406.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60			
J 1500.	466.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50			
K 2150.	497.	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		14.92	4.67	2.74	1.94	1.50	1.22	1.03	.90	.79	.71	.64	.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	.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

		SC 7.0UT																			
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	.50	.99	1.47	2.83	4.88	7.57	9.93	14.92	19.59	22.33	24.27	25.77	26.99	28.02	28.92	29.71	30.41	31.05	31.64		

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.70	1300	.15	1.44	1900	.20	2.39
0200	.10	.19	0800	.12	.82	1400	.15	1.59	2000	.20	2.59
0300	.10	.29	0900	.12	.94	1500	.15	1.74	2100	.20	2.80
0400	.10	.39	1000	.12	1.05	1600	.15	1.89	2200	.20	3.00
0500	.10	.49	1100	.12	1.17	1700	.15	2.04	2300	.20	3.20
0600	.10	.58	1200	.12	1.29	1800	.15	2.18	2400	.20	3.41
6-HR TOTAL	.58			.71			.90			1.22	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.69	0700	.60	5.94	1300	1.33	11.35	1900	.55	25.48
0200	.30	3.99	0800	.65	6.59	1400	1.92	13.27	2000	.50	25.99
0300	.31	4.30	0900	.72	7.32	1500	2.69	15.96	2100	.46	26.45
0400	.33	4.63	1000	.80	8.12	1600	4.88	20.84	2200	.43	26.88
0500	.35	4.98	1100	.90	9.01	1700	2.36	23.20	2300	.41	27.29
0600	.37	5.34	1200	1.00	10.02	1800	1.73	24.93	2400	.39	27.67
6-HR TOTAL	1.94			4.67			14.92			2.74	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	27.92	0700	.17	29.35	1300	.13	30.34	1900	.11	31.10
0200	.25	28.17	0800	.17	29.52	1400	.13	30.47	2000	.11	31.21
0300	.25	28.42	0900	.17	29.69	1500	.13	30.60	2100	.11	31.32
0400	.25	28.67	1000	.17	29.86	1600	.13	30.73	2200	.11	31.42
0500	.25	28.92	1100	.17	30.04	1700	.13	30.87	2300	.11	31.53
0600	.25	29.17	1200	.17	30.21	1800	.13	31.00	2400	.11	31.64
6-HR TOTAL	1.50			1.03			.79			.64	

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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	151.4	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 = 222., PREFERRED ORIENTATION = 215.
 Page 4

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

ISOHYET	DEPTH VS. DURATION																		
	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	1.44	2.75	4.72	7.24	9.47	14.09	18.82	21.05	23.66	25.21	27.47	27.35	28.47	29.30	30.03	30.69	31.28
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.94	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	.49	.97	1.44	2.79	4.81	7.47	9.81	14.77	19.41	22.13	24.06	25.54	26.76	27.79	28.68	29.46	30.16	30.80	31.38

PROBABLE MAXIMUM STORM FOR BASIN4												
DAY 1	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	0100	.10	.10	0700	.12	.70	1300	.15	1.43	1900	.20	2.37
	0200	.10	.19	0800	.12	.81	1400	.15	1.58	2000	.20	2.58
	0300	.10	.29	0900	.12	.93	1500	.15	1.73	2100	.20	2.78
	0400	.10	.39	1000	.12	1.05	1600	.15	1.87	2200	.20	2.98
	0500	.10	.48	1100	.12	1.16	1700	.15	2.02	2300	.20	3.18
	0600	.10	.58	1200	.12	1.28	1800	.15	2.17	2400	.20	3.39
6-HR TOTAL		.58			.70			.89			1.22	
DAY 2	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	0100	.28	3.67	0700	.59	5.90	1300	1.32	11.27	1900	.55	25.27
	0200	.30	3.97	0800	.65	6.55	1400	1.91	13.18	2000	.50	25.77
	0300	.31	4.28	0900	.72	7.27	1500	2.66	15.85	2100	.46	26.23
	0400	.33	4.60	1000	.80	8.06	1600	4.81	20.66	2200	.43	26.66
	0500	.34	4.94	1100	.89	8.95	1700	2.34	23.00	2300	.40	27.06
	0600	.36	5.31	1200	1.00	9.95	1800	1.72	24.72	2400	.38	27.44
6-HR TOTAL		1.92			4.64			14.77			2.72	
DAY 3	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	0100	.25	27.69	0700	.17	29.10	1300	.13	30.09	1900	.11	30.85
	0200	.25	27.94	0800	.17	29.27	1400	.13	30.22	2000	.11	30.95
	0300	.25	28.19	0900	.17	29.44	1500	.13	30.35	2100	.11	31.06
	0400	.25	28.43	1000	.17	29.62	1600	.13	30.48	2200	.11	31.17
	0500	.25	28.68	1100	.17	29.79	1700	.13	30.61	2300	.11	31.27
	0600	.25	28.93	1200	.17	29.96	1800	.13	30.74	2400	.11	31.38
6-HR TOTAL		1.49			1.03			.78			.63	

SUBBASIN3										
SC 7.OUT										
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 = 222., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 352.0, Y = 441.0

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR	INCREMENTS OF	PMS	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	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
D 100.	0.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
E 175.	0.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
F 300.	0.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
G 450.	0.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
H 700.	2.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
I 1000.	21.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
J 1500.	24.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50	.50
K 2150.	24.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40	.40
L 3000.	24.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33	.33
M 4500.	24.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26	.26
N 6500.	24.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19	.19
O 10000.	24.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11	.11
P 15000.	24.	.00	.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	.00
R 40000.	24.	.00	.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	.00
AVERAGE DEPTH		13.24	4.61	2.79	1.98	1.54	1.25	1.06	.92	.81	.72	.65	.60	.60

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	.44	.88	1.31	2.52	4.34	6.72	8.78	13.24	17.85	20.64	22.62	24.16	25.41	26.47	27.39	28.20	28.92	29.58	30.17
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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	.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	2.87
	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		

SC 7.0UT											
DAY 2											
	TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL
	0100	.29	3.79		0700	.60	6.08		1300	1.22	11.31
	0200	.31	4.09		0800	.66	6.74		1400	1.70	13.01
	0300	.32	4.41		0900	.72	7.46		1500	2.37	15.38
	0400	.34	4.75		1000	.79	8.25		1600	4.34	19.73
	0500	.35	5.10		1100	.87	9.12		1700	2.06	21.79
	0600	.38	5.48		1200	.97	10.09		1800	1.54	23.33
	6-HR TOTAL	1.98				4.61				13.24	
										2.79	
DAY 3											
	TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL
	0100	.26	26.37		0700	.18	27.83		1300	.13	28.84
	0200	.26	26.63		0800	.18	28.00		1400	.13	28.98
	0300	.26	26.88		0900	.18	28.18		1500	.13	29.11
	0400	.26	27.14		1000	.18	28.36		1600	.13	29.25
	0500	.26	27.39		1100	.18	28.53		1700	.13	29.38
	0600	.26	27.65		1200	.18	28.71		1800	.13	29.52
	6-HR TOTAL	1.54				1.06				.81	
										.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

STORM AREA = 1000. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN2
 STORM CENTER COORDINATES, X = 352.0, Y = 441.0, ORIENTATION = 222., PREFERRED ORIENTATION = 215.

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) 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.	0.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	0.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	3.	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		11.77	4.29	2.63	1.87	1.45	1.18	1.00	.87	.76	.68	.62	.56

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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

Page 7

SC 7.0UT																		
R	.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
AVERAGE	.34	.68	1.01	1.96	3.46	5.62	7.55	11.77	16.06	18.70	20.57	22.02	23.20	24.20	25.07	25.83	26.52	27.13

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.09	.09	0700	.11	.68	1300	.14	1.39	1900	.20	2.31
0200	.09	.19	0800	.11	.79	1400	.14	1.54	2000	.20	2.51
0300	.09	.28	0900	.11	.91	1500	.14	1.68	2100	.20	2.71
0400	.09	.38	1000	.11	1.02	1600	.14	1.82	2200	.20	2.90
0500	.09	.47	1100	.11	1.13	1700	.14	1.97	2300	.20	3.10
0600	.09	.56	1200	.11	1.25	1800	.14	2.11	2400	.20	3.30
6-HR TOTAL	.56		.68			.87			1.18		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.28	3.57	0700	.56	5.73	1300	1.16	10.61	1900	.52	21.75
0200	.29	3.86	0800	.61	6.34	1400	1.61	12.22	2000	.48	22.24
0300	.30	4.16	0900	.67	7.01	1500	2.16	14.39	2100	.45	22.68
0400	.32	4.48	1000	.73	7.75	1600	3.46	17.85	2200	.42	23.10
0500	.33	4.82	1100	.81	8.56	1700	1.92	19.77	2300	.39	23.49
0600	.35	5.17	1200	.90	9.46	1800	1.46	21.23	2400	.37	23.87
6-HR TOTAL	1.87		4.29			11.77			2.63		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	24.11	0700	.17	25.48	1300	.13	26.44	1900	.10	27.18
0200	.24	24.35	0800	.17	25.65	1400	.13	26.57	2000	.10	27.29
0300	.24	24.59	0900	.17	25.82	1500	.13	26.70	2100	.10	27.39
0400	.24	24.83	1000	.17	25.98	1600	.13	26.83	2200	.10	27.49
0500	.24	25.07	1100	.17	26.15	1700	.13	26.95	2300	.10	27.60
0600	.24	25.32	1200	.17	26.32	1800	.13	27.08	2400	.10	27.70
6-HR TOTAL	1.45		1.00			.76			.62		

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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 = 222., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 352.0, Y = 441.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	4	5	6	7	8	9	10	11	12
A 10.	2.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	5.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	8.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	14.	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.	31.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	41.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	55.	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	.39	.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		17.01	4.97	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.60

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SC 7.0UT

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	.59	1.18	1.75	3.37	5.77	8.82	11.48	17.01	21.98	24.83	26.83	28.38	29.65	30.72	31.65	32.47	33.20	33.86	34.46

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PROBABLE MAXIMUM STORM FOR BASIN1

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	2.47
0200	.10	.20	0800	.12	.85	1400	.15	1.64	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	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.30	3.83	0700	.63	6.16	1300	1.46	11.96	1900	.58	28.09
0200	.31	4.13	0800	.69	6.85	1400	2.15	14.11	2000	.53	28.61
0300	.32	4.46	0900	.76	7.61	1500	3.05	17.15	2100	.48	29.09
0400	.34	4.80	1000	.85	8.47	1600	5.77	22.93	2200	.45	29.54
0500	.36	5.15	1100	.96	9.43	1700	2.66	25.59	2300	.42	29.96
0600	.38	5.53	1200	1.08	10.50	1800	1.92	27.51	2400	.40	30.36
6-HR TOTAL	2.00		4.97			17.01			2.85		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	30.62	0700	.18	32.09	1300	.14	33.12	1900	.11	33.91
0200	.26	30.88	0800	.18	32.27	1400	.14	33.26	2000	.11	34.02
0300	.26	31.14	0900	.18	32.45	1500	.14	33.39	2100	.11	34.13
0400	.26	31.40	1000	.18	32.63	1600	.14	33.53	2200	.11	34.24
0500	.26	31.66	1100	.18	32.81	1700	.14	33.67	2300	.11	34.35
0600	.26	31.91	1200	.18	32.99	1800	.14	33.80	2400	.11	34.46
6-HR TOTAL	1.55		1.07			.82			.66		

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SC X.OUT

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*****
*
* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
*
* RUN DATE 08/06/2009 TIME 20:04:02
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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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      H   H   M   M   RRRRRR   5555555   22222
      H   H   MM  MM  R   R   5         2   2
      H   H   M   M   M   R   R   5         2
      HHHHHH  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

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HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

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

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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 SQUAW CREEK BASIN AT SCX
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
35 SC 337 280
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

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1

HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 2

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

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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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SC X.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

VARYING STORM AREA SIZE AND FIXED ORIENTATION														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIEN- TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												
10.	145.	7.49	1.38	.76	.53	.41	.33	.28	.24	.21	.19	.17	.16	9.63
25.	145.	9.95	2.09	1.21	.85	.65	.53	.45	.39	.34	.30	.27	.25	13.25
50.	145.	11.68	2.62	1.55	1.09	.84	.69	.58	.50	.44	.39	.36	.32	15.85
100.	145.	13.06	3.09	1.87	1.32	1.02	.84	.71	.61	.54	.48	.44	.40	18.01
175.	145.	14.16	3.44	2.11	1.50	1.17	.96	.81	.70	.62	.56	.50	.46	19.71
300.	145.	15.05	3.88	2.38	1.69	1.32	1.08	.91	.79	.70	.62	.56	.52	21.32
450.	145.	15.63	4.21	2.55	1.81	1.41	1.15	.97	.84	.74	.67	.60	.55	22.39
700.	145.	15.72	4.50	2.67	1.89	1.47	1.20	1.01	.88	.77	.69	.63	.57	22.89
1000.	145.	15.39	4.66	2.71	1.91	1.48	1.21	1.02	.88	.78	.70	.63	.57	22.76
1500.	145.	14.54	4.42	2.59	1.84	1.43	1.17	.99	.86	.76	.68	.62	.56	21.55
2150.	145.	13.52	4.11	2.44	1.74	1.36	1.12	.95	.82	.73	.65	.59	.54	20.07
3000.	145.	12.35	3.79	2.26	1.62	1.27	1.05	.89	.78	.69	.62	.56	.51	18.40
4500.	145.	11.65	3.64	2.20	1.59	1.26	1.04	.89	.77	.68	.61	.56	.51	17.49
6500.	145.	11.15	3.44	2.09	1.52	1.20	1.00	.85	.75	.66	.59	.54	.49	16.68
10000.	145.	10.43	3.17	1.94	1.41	1.13	.94	.80	.70	.62	.56	.51	.47	15.54
15000.	145.	9.75	2.97	1.81	1.32	1.06	.88	.76	.66	.59	.53	.48	.44	14.53
20000.	145.	9.11	2.81	1.72	1.26	1.01	.84	.72	.63	.56	.51	.46	.42	13.64

FIXED STORM AREA SIZE AND VARYING ORIENTATION

FIXED STORM AREA SIZE AND VARYING ORIENTATION														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIEN- TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												
700.	140.	15.64	4.49	2.66	1.89	1.46	1.20	1.01	.88	.77	.69	.62	.57	22.78
700.	150.	15.69	4.49	2.67	1.89	1.46	1.20	1.01	.88	.77	.69	.63	.57	22.85
700.	160.	15.59	4.48	2.66	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	22.73
700.	170.	15.21	4.41	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56	22.25
700.	180.	14.68	4.31	2.57	1.82	1.41	1.15	.97	.84	.74	.67	.60	.55	21.56
700.	190.	14.11	4.18	2.50	1.77	1.37	1.12	.95	.82	.72	.65	.59	.53	20.79
700.	200.	13.64	4.07	2.43	1.72	1.33	1.09	.92	.80	.70	.63	.57	.52	20.14
700.	210.	13.31	3.99	2.38	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51	19.68
700.	220.	13.14	3.94	2.35	1.66	1.29	1.05	.89	.77	.68	.61	.55	.50	19.43
700.	230.	13.12	3.92	2.34	1.66	1.29	1.05	.89	.77	.68	.61	.55	.50	19.39
700.	240.	13.22	3.94	2.35	1.66	1.29	1.06	.89	.77	.68	.61	.55	.50	19.51
700.	250.	13.41	3.99	2.38	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51	19.78
700.	260.	13.63	4.03	2.41	1.70	1.32	1.08	.91	.79	.70	.62	.56	.51	20.07
700.	270.	13.85	4.08	2.43	1.72	1.33	1.09	.92	.80	.70	.63	.57	.52	20.37
700.	280.	14.11	4.14	2.46	1.74	1.35	1.10	.93	.81	.71	.64	.58	.53	20.70
700.	290.	14.54	4.24	2.52	1.79	1.39	1.13	.96	.83	.73	.65	.59	.54	21.30
700.	300.	14.97	4.34	2.58	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	21.89
700.	310.	15.36	4.43	2.63	1.86	1.45	1.18	1.00	.86	.76	.68	.62	.56	22.42
700.	140.	15.64	4.49	2.66	1.89	1.46	1.20	1.01	.88	.77	.69	.63	.57	22.79
700.	150.	15.69	4.49	2.67	1.89	1.46	1.20	1.01	.88	.77	.69	.63	.57	22.85

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PROBABLE MAXIMUM STORM FOR CPNPP
 STORM AREA = 700. SQ. MI., ORIENTATION = 145., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 337.0, Y = 280.0

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR INCREMENTS OF PMS	6	7	8	9	10	11	12
A 10.	10.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
B 25.	24.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
C 50.	45.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
D 100.	78.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
E 175.	122.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
F 300.	190.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
G 450.	264.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
H 700.	378.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59		
I 1000.	462.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50		
J 1500.	503.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42		
K 2150.	509.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35		
L 3000.	509.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28		
M 4500.	509.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22		
N 6500.	509.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15		
O 10000.	509.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		15.72	4.50	2.67	1.89	1.47	1.20	1.01	.88	.77	.69	.63	.57		

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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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29

Page 3

		SC X.OUT																														
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83													
I	.18	.37	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68													
J	.14	.28	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79													
K	.10	.21	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76													
L	.08	.15	.23	.46	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37													
M	.05	.10	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06													
N	.03	.06	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72													
O	.01	.02	.03	.06	.13	.25	.37	.67	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69													
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	3.19	5.44	8.25	10.69	15.72	20.22	22.89	24.79	26.25	27.45	28.47	29.34	30.12	30.81	31.44	32.01													

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.69	1300	.15	1.41	1900	.20	2.34
0200	.10	.19	0800	.12	.80	1400	.15	1.56	2000	.20	2.54
0300	.10	.29	0900	.12	.92	1500	.15	1.70	2100	.20	2.74
0400	.10	.38	1000	.12	1.03	1600	.15	1.85	2200	.20	2.94
0500	.10	.48	1100	.12	1.15	1700	.15	2.00	2300	.20	3.14
0600	.10	.57	1200	.12	1.27	1800	.15	2.14	2400	.20	3.34
6-HR TOTAL	.57		.69			.88			1.20		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.28	3.62	0700	.58	5.81	1300	1.32	11.06	1900	.53	25.99
0200	.29	3.91	0800	.63	6.44	1400	1.96	13.02	2000	.49	26.48
0300	.30	4.22	0900	.69	7.13	1500	2.81	15.83	2100	.45	26.93
0400	.32	4.54	1000	.77	7.90	1600	5.44	21.27	2200	.42	27.36
0500	.34	4.88	1100	.86	8.76	1700	2.44	23.71	2300	.40	27.75
0600	.36	5.23	1200	.98	9.74	1800	1.75	25.46	2400	.38	28.13
6-HR TOTAL	1.89		4.50			15.72			2.67		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	28.37	0700	.17	29.76	1300	.13	30.74	1900	.10	31.49
0200	.24	28.62	0800	.17	29.93	1400	.13	30.87	2000	.10	31.59
0300	.24	28.86	0900	.17	30.10	1500	.13	31.00	2100	.10	31.70
0400	.24	29.11	1000	.17	30.27	1600	.13	31.13	2200	.10	31.80
0500	.24	29.35	1100	.17	30.44	1700	.13	31.26	2300	.10	31.91
0600	.24	29.60	1200	.17	30.61	1800	.13	31.38	2400	.10	32.01
6-HR TOTAL	1.47		1.01			.77			.63		

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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 = 145., PREFERRED ORIENTATION = 215.

STORM CENTER COORDINATES, X = SC X.OUT 337.0, Y = 280.0														
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR	INCREMENTS	OF PMS	9	10	11	12
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	
B 25.	2.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	
C 50.	10.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	
D 100.	28.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	
E 175.	59.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	
F 300.	115.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	
G 450.	184.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	
H 700.	291.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	
I 1000.	369.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50	
J 1500.	405.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42	
K 2150.	411.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35	
L 3000.	411.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28	
M 4500.	411.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22	
N 6500.	411.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15	
O 10000.	411.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		14.98	4.42	2.65	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57	

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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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.48	.97	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68
J	.44	.88	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
K	.40	.81	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76
L	.38	.75	.23	.46	.94	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37
M	.35	.70	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06
N	.33	.66	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72
O	.01	.02	.03	.06	.13	.25	.37	1.00	1.46	1.71	1.91	2.07	2.07	2.21	2.33	2.43	2.53	2.61	2.69
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	1.04	1.55	2.99	5.12	7.80	10.13	14.98	19.40	22.05	23.94	25.40	26.59	27.60	28.48	29.25	29.94	30.56	31.13

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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	.09	.09	0700	.12	.68	1300	.15	1.41	1900	.20	2.33
	0200	.09	.19	0800	.12	.80	1400	.15	1.55	2000	.20	2.53
	0300	.09	.28	0900	.12	.92	1500	.15	1.70	2100	.20	2.73
	0400	.09	.38	1000	.12	1.03	1600	.15	1.84	2200	.20	2.93
	0500	.09	.47	1100	.12	1.15	1700	.15	1.99	2300	.20	3.13
	0600	.09	.57	1200	.12	1.26	1800	.15	2.13	2400	.20	3.33
6-HR	TOTAL	.57			.69			.87			1.19	
DAY 2												
	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.28	3.61	0700	.57	5.78	1300	1.28	10.92	1900	.53	25.14
	0200	.29	3.90	0800	.62	6.40	1400	1.88	12.80	2000	.49	25.63
	0300	.30	4.20	0900	.68	7.08	1500	2.68	15.48	2100	.45	26.08
	0400	.32	4.52	1000	.76	7.84	1600	5.12	20.60	2200	.42	26.50
	0500	.34	4.86	1100	.85	8.68	1700	2.33	22.93	2300	.39	26.89
	0600	.36	5.21	1200	.95	9.64	1800	1.68	24.61	2400	.37	27.27
6-HR	TOTAL	1.88			4.42			14.98			2.65	
DAY 3												
	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.24	27.51	0700	.17	28.90	1300	.13	29.87	1900	.10	30.61
	0200	.24	27.75	0800	.17	29.06	1400	.13	29.99	2000	.10	30.72
	0300	.24	28.00	0900	.17	29.23	1500	.13	30.12	2100	.10	30.82
	0400	.24	28.24	1000	.17	29.40	1600	.13	30.25	2200	.10	30.92
	0500	.24	28.48	1100	.17	29.57	1700	.13	30.38	2300	.10	31.03
	0600	.24	28.73	1200	.17	29.74	1800	.13	30.51	2400	.10	31.13
6-HR	TOTAL	1.46			1.01			.77			.62	

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SUBBASIN3																				
SC X.OUT																				
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																				
STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN3, ORIENTATION = 145., PREFERRED ORIENTATION = 215.																				
STORM CENTER COORDINATES, X = 337.0, Y = 280.0																				
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	FOR 6-HOUR	INCREMENTS OF PMS													
					4	5	6	7	8	9	10	11	12							
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
E 175.	0.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
F 300.	3.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
G 450.	6.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
H 700.	13.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59							
I 1000.	18.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50							
J 1500.	24.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42							
K 2150.	24.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35							
L 3000.	24.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28							
M 4500.	24.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22							
N 6500.	24.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15							
O 10000.	24.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		13.26	4.16	2.54	1.81	1.40	1.15	.97	.84	.74	.66	.60	.55							
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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33	
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73	
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21	
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53	
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02	
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40	
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29	
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83	
I	.48	.97	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68	
J	.44	.28	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79	
K	.40	.21	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76	
L	.08	.15	.23	.46	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37	
M	.05	.10	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06	
N	.03	.06	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72	
O	.01	.02	.03	.06	.13	.25	.37	.67	1.10	1.46	1.71	1.91	2.07	2.22	2.33	2.43	2.53	2.61	2.69	
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		.43	.85	1.27	2.45	4.25	6.66	8.78	13.26	17.42	19.97	21.78	23.18	24.33	25.30	26.14	26.88	27.54	28.14	28.69
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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.48	.97	1.41	2.79	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68	
J	.44	.91	1.34	2.61	3.95	5.74	9.09	12.81	15.91	18.35	20.14	21.44	22.33	23.01	23.62	24.18	24.68		
K	.40	.84	1.25	2.41	3.51	5.07	7.62	10.23	12.81	14.51	15.91	16.46	17.20	17.84	18.41	18.92	19.37	19.79	
L	.36	.78	1.16	2.23	3.23	4.55	6.63	9.33	11.88	13.58	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	
M	.32	.71	1.08	2.03	2.98	4.24	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76	
N	.28	.63	.96	1.79	2.61	3.64	5.11	7.19	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37		
O	.24	.56	.84	1.50	2.23	3.13	4.35	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06		
P	.20	.48	.72	1.33	2.03	2.83	3.94	5.11	5.77	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06	
Q	.16	.40	.60	1.11	1.66	2.37	3.31	4.35	5.11	5.77	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	
R	.12	.36	.52	.96	1.41	2.03	2.83	3.94	5.11	5.77	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	
S	.08	.24	.36	.66	.96	1.41	2.03	2.83	3.94	5.11	5.77	6.29	6.86	7.32	7.70	8.04	8.34	8.60	
AVERAGE	.43	.85	1.27	2.45	4.25	6.66	8.78	13.26	17.42	19.97	21.78	23.18	24.33	25.30	26.14	26.88	27.54	28.14	28.69

PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.09	.09	0700	.11	.66	1300	.14	1.35	1900	.19	2.24
	0200	.09	.18	0800	.11	.77	1400	.14	1.49	2000	.19	2.43
	0300	.09	.27	0900	.11	.88	1500	.14	1.63	2100	.19	2.62
	0400	.09	.36	1000	.11	.99	1600	.14	1.77	2200	.19	2.81
	0500	.09	.46	1100	.11	1.10	1700	.14	1.91	2300	.19	3.01
	0600	.09	.55	1200	.11	1.21	1800	.14	2.05	2400	.19	3.20
6-HR TOTAL		.55			.66			.84			1.15	

SC X.OUT											
DAY 2											
TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		INCR	TOTAL
0100	.27	3.47	0700	.54	5.55	1300	1.19	10.36	1900	.50	22.94
0200	.28	3.74	0800	.58	6.13	1400	1.73	12.09	2000	.47	23.40
0300	.29	4.04	0900	.64	6.77	1500	2.41	14.50	2100	.43	23.83
0400	.31	4.34	1000	.71	7.48	1600	4.25	18.76	2200	.40	24.23
0500	.32	4.66	1100	.79	8.28	1700	2.12	20.87	2300	.38	24.61
0600	.34	5.01	1200	.89	9.17	1800	1.56	22.43	2400	.36	24.97
6-HR TOTAL	1.81		4.16			13.26			2.54		
DAY 3											
TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		INCR	TOTAL
0100	.23	25.21	0700	.16	26.54	1300	.12	27.47	1900	.10	28.19
0200	.23	25.44	0800	.16	26.70	1400	.12	27.59	2000	.10	28.29
0300	.23	25.67	0900	.16	26.86	1500	.12	27.72	2100	.10	28.39
0400	.23	25.91	1000	.16	27.02	1600	.12	27.84	2200	.10	28.49
0500	.23	26.14	1100	.16	27.18	1700	.12	27.96	2300	.10	28.59
0600	.23	26.38	1200	.16	27.35	1800	.12	28.09	2400	.10	28.69
6-HR TOTAL	1.40		.97			.74			.60		

1

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

STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN2
 STORM CENTER COORDINATES, X = 337.0, Y = 280.0, ORIENTATION = 145., PREFERRED ORIENTATION = 215.

AREA WITHIN BASIN (SQ. MI.)		DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS											
ISOHYET AREA (SQ. MI.)		1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E 175.	4.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F 300.	9.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	10.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H 700.	10.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I 1000.	10.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	10.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K 2150.	10.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L 3000.	10.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M 4500.	10.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N 6500.	10.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O 10000.	10.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		17.61	4.75	2.77	1.96	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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.48	.97	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68
J	.44	.88	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
K	.40	.81	.39	.76	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76
L	.38	.75	.36	.71	1.19	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37	
M	.35	.70	.33	.66	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06	
N	.33	.66	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06	
O	.31	.62	.28	.56	1.13	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72		
P	.29	.58	.26	.52	1.13	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72		
Q	.27	.54	.24	.48	1.13	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72		

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DAY 1

6-HR TOTAL

DAY 2

6-HR TOTAL

DAY 3

6-HR TOTAL

SUBBASTN1

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

STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN1
ORIENTATION = 145., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 337.0, Y = 280.0

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SC X.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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33	
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73	
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21	
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53	
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02	
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40	
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29	
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83	
I	.48	.37	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68	
J	.44	.28	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79	
K	.40	.21	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76	
L	.38	.15	.23	.46	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37	
M	.35	.10	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06	
N	.33	.06	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.55	5.72	
O	.30	.02	.03	.06	.13	.25	.37	1.10	1.46	1.71	1.91	2.07	2.17	2.23	2.28	2.33	2.37	2.41	2.45	
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	.81	1.61	2.39	4.61	7.78	11.50	14.70	21.09	26.19	29.01	30.97	32.49	33.73	34.78	35.69	36.50	37.21	37.86	38.46	

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PROBABLE MAXIMUM STORM FOR BASIN1

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	2.64
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		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.75	0700	.63	6.05	1300	1.63	12.15	1900	.58	32.19
0200	.30	4.05	0800	.69	6.74	1400	2.52	14.67	2000	.52	32.71
0300	.31	4.37	0900	.77	7.52	1500	3.72	18.39	2100	.48	33.19
0400	.33	4.70	1000	.87	8.39	1600	7.78	26.17	2200	.44	33.63
0500	.35	5.05	1100	1.00	9.39	1700	3.21	29.37	2300	.41	34.04
0600	.37	5.42	1200	1.14	10.52	1800	2.24	31.61	2400	.39	34.43
6-HR TOTAL	1.96		5.10			21.09			2.82		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	34.69	0700	.18	36.13	1300	.13	37.14	1900	.11	37.92
0200	.25	34.94	0800	.18	36.30	1400	.13	37.27	2000	.11	38.02
0300	.25	35.19	0900	.18	36.48	1500	.13	37.41	2100	.11	38.13
0400	.25	35.45	1000	.18	36.66	1600	.13	37.54	2200	.11	38.24
0500	.25	35.70	1100	.18	36.83	1700	.13	37.67	2300	.11	38.35
0600	.25	35.95	1200	.18	37.01	1800	.13	37.81	2400	.11	38.46
6-HR TOTAL	1.52		1.05			.80			.65		

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PR 1.OUT

HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

PAGE 2

Page 1

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                                PR 1.OUT
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 10:09:37
*
*****
*
* 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 PR1
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (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

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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 1.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														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENT- TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												
10.	170.	5.74	1.06	.59	.41	.31	.25	.21	.18	.16	.15	.13	.12	7.39
25.	170.	7.96	1.70	1.00	.70	.54	.44	.37	.32	.28	.25	.23	.21	10.66
50.	170.	9.50	2.20	1.32	.93	.72	.58	.49	.43	.38	.34	.30	.28	13.02
100.	170.	10.79	2.66	1.63	1.16	.89	.73	.62	.53	.47	.42	.38	.35	15.08
175.	170.	11.85	3.01	1.88	1.34	1.04	.85	.72	.63	.55	.49	.45	.41	16.74
300.	170.	12.78	3.47	2.16	1.54	1.20	.98	.83	.72	.63	.57	.51	.47	18.41
450.	170.	13.55	3.85	2.37	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51	19.76
700.	170.	14.14	4.28	2.58	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	21.00
1000.	170.	14.46	4.62	2.73	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	21.80
1500.	170.	14.21	4.57	2.72	1.94	1.51	1.24	1.05	.91	.80	.72	.65	.59	21.50
2150.	170.	13.65	4.40	2.65	1.90	1.48	1.22	1.04	.90	.80	.71	.65	.59	20.70
3000.	170.	13.01	4.25	2.57	1.85	1.45	1.20	1.02	.89	.78	.70	.64	.58	19.83
4500.	170.	12.29	4.08	2.50	1.81	1.43	1.18	1.01	.88	.78	.70	.64	.58	18.87
6500.	170.	11.77	3.86	2.37	1.73	1.37	1.14	.97	.85	.75	.68	.62	.56	18.00
10000.	170.	11.02	3.55	2.20	1.61	1.29	1.07	.92	.80	.71	.64	.58	.53	16.78
15000.	170.	10.32	3.33	2.06	1.51	1.21	1.01	.86	.76	.67	.61	.55	.50	15.70
20000.	170.	9.64	3.16	1.95	1.43	1.15	.96	.83	.72	.64	.58	.53	.48	14.75

FIXED STORM AREA SIZE AND VARYING ORIENTATION													SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS	
STORM AREA	ORIENT- TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS												
1000.	140.	11.47	3.87	2.30	1.63	1.26	1.03	.87	.75	.66	.59	.54	.49	17.64
1000.	150.	12.67	4.16	2.46	1.74	1.35	1.10	.93	.81	.71	.64	.57	.52	19.29
1000.	160.	13.84	4.45	2.63	1.86	1.44	1.18	.99	.86	.76	.68	.61	.56	20.92
1000.	170.	14.46	4.62	2.73	1.93	1.49	1.22	1.03	.89	.79	.70	.64	.58	21.80
1000.	180.	14.15	4.56	2.70	1.91	1.48	1.21	1.02	.88	.78	.70	.63	.57	21.41
1000.	190.	13.16	4.33	2.57	1.81	1.41	1.15	.97	.84	.74	.66	.60	.55	20.05
1000.	200.	11.89	4.03	2.40	1.70	1.32	1.07	.91	.79	.69	.62	.56	.51	18.33
1000.	210.	10.63	3.72	2.24	1.58	1.22	1.00	.84	.73	.64	.58	.52	.48	16.58
1000.	220.	9.54	3.44	2.08	1.47	1.14	.93	.79	.68	.60	.54	.49	.44	15.06
1000.	230.	8.68	3.20	1.95	1.38	1.07	.87	.74	.64	.56	.50	.46	.42	13.83
1000.	240.	8.09	3.02	1.86	1.31	1.02	.83	.70	.61	.54	.48	.43	.40	12.97
1000.	250.	7.76	2.92	1.80	1.27	.99	.81	.68	.59	.52	.47	.42	.38	12.49
1000.	260.	7.60	2.87	1.77	1.25	.97	.79	.67	.58	.51	.46	.41	.38	12.23
1000.	270.	7.61	2.85	1.76	1.24	.96	.79	.66	.58	.51	.45	.41	.37	12.22
1000.	280.	7.83	2.91	1.78	1.26	.98	.80	.67	.58	.51	.46	.42	.38	12.52
1000.	290.	8.41	3.07	1.87	1.32	1.02	.84	.71	.61	.54	.48	.44	.40	13.35
1000.	300.	9.23	3.29	1.99	1.41	1.09	.89	.75	.65	.57	.51	.46	.42	14.51
1000.	310.	10.27	3.57	2.14	1.51	1.17	.96	.81	.70	.62	.55	.50	.46	15.98
1000.	165.	14.24	4.55	2.69	1.90	1.47	1.20	1.02	.88	.78	.69	.63	.57	21.48
1000.	175.	14.45	4.63	2.74	1.93	1.50	1.22	1.03	.89	.79	.71	.64	.58	21.82

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PROBABLE MAXIMUM STORM FOR CPNPP
 STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 161.0, Y = 685.0

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	DEPTHS (INCHES) 4	5	FOR 6-HOUR 6	INCREMENTS OF PMS 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.	12.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	23.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	45.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	76.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	124.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	180.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	266.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	362.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	477.	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		14.45	4.63	2.74	1.93	1.50	1.22	1.03	.89	.79	.71	.64	.58

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

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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PR 1.0UT																			
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	.47	.94	1.40	2.70	4.67	7.28	9.57	14.45	19.08	21.82	23.75	25.25	26.47	27.50	28.40	29.19	29.89	30.53	31.11

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.70	1300	.15	1.44	1900	.20	2.39
0200	.10	.19	0800	.12	.82	1400	.15	1.59	2000	.20	2.59
0300	.10	.29	0900	.12	.94	1500	.15	1.74	2100	.20	2.79
0400	.10	.39	1000	.12	1.05	1600	.15	1.88	2200	.20	3.00
0500	.10	.49	1100	.12	1.17	1700	.15	2.03	2300	.20	3.20
0600	.10	.58	1200	.12	1.29	1800	.15	2.18	2400	.20	3.41
6-HR TOTAL	.58		.71			.89			1.22		
DAY 2											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.69	0700	.60	5.93	1300	1.31	11.27	1900	.55	24.97
0200	.30	3.99	0800	.65	6.58	1400	1.88	13.15	2000	.50	25.47
0300	.31	4.30	0900	.71	7.30	1500	2.61	15.77	2100	.46	25.93
0400	.33	4.63	1000	.79	8.09	1600	4.67	20.43	2200	.43	26.37
0500	.35	4.97	1100	.89	8.98	1700	2.29	22.73	2300	.40	26.77
0600	.37	5.34	1200	.99	9.97	1800	1.69	24.42	2400	.39	27.16
6-HR TOTAL	1.93		4.63			14.45			2.74		
DAY 3											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	27.40	0700	.17	28.83	1300	.13	29.82	1900	.11	30.58
0200	.25	27.65	0800	.17	29.00	1400	.13	29.95	2000	.11	30.69
0300	.25	27.90	0900	.17	29.17	1500	.13	30.08	2100	.11	30.79
0400	.25	28.15	1000	.17	29.34	1600	.13	30.21	2200	.11	30.90
0500	.25	28.40	1100	.17	29.51	1700	.13	30.34	2300	.11	31.01
0600	.25	28.65	1200	.17	29.69	1800	.13	30.48	2400	.11	31.11
6-HR TOTAL	1.50		1.03			.79			.64		

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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

1

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

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

PROBABLE MAXIMUM STORM FOR BASIN4												
DAY 1												
	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	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	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	0100	.29	3.78	0700	.61	6.08	1300	1.36	11.62	1900	.56	26.25
	0200	.30	4.09	0800	.67	6.75	1400	1.97	13.60	2000	.52	26.76
	0300	.32	4.41	0900	.74	7.49	1500	2.77	16.37	2100	.48	27.24
	0400	.34	4.74	1000	.82	8.32	1600	5.13	21.49	2200	.44	27.68
	0500	.35	5.10	1100	.92	9.23	1700	2.42	23.91	2300	.41	28.10
	0600	.38	5.47	1200	1.03	10.26	1800	1.77	25.69	2400	.39	28.49
6-HR TOTAL		1.98			4.79			15.42			2.81	
DAY 3												
	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	0100	.26	28.75	0700	.18	30.20	1300	.13	31.22	1900	.11	32.00
	0200	.26	29.00	0800	.18	30.38	1400	.13	31.35	2000	.11	32.11
	0300	.26	29.26	0900	.18	30.55	1500	.13	31.49	2100	.11	32.22
	0400	.26	29.51	1000	.18	30.73	1600	.13	31.62	2200	.11	32.33
	0500	.26	29.77	1100	.18	30.91	1700	.13	31.76	2300	.11	32.44
	0600	.26	30.03	1200	.18	31.08	1800	.13	31.89	2400	.11	32.55
6-HR TOTAL		1.53			1.06			.81			.65	

SUBBASIN3												PR 1.OUT											
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 = 161.0, Y = 685.0																							
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR	INCREMENTS	OF PMS	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.	0.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60										
H 700.	0.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60										
I 1000.	0.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60										
J 1500.	19.	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		10.15	3.88	2.42	1.71	1.33	1.08	.92	.79	.70	.63	.57	.52										
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	.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		.23	.46	.69	1.35	2.51	4.44	6.20	10.15	14.03	16.45	18.16	19.49	20.57	21.49	22.28	22.98	23.61	24.17	24.69			
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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	.40	.80	1.20	2.30	4.00	6.00	8.00	12.00	16.00	18.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00
K	.36	.72	1.08	2.16	3.84	5.76	7.68	11.52	15.36	17.28	19.20	20.16	21.12	22.08	23.04	24.00	25.00	26.00	27.00
L	.32	.64	.96	1.92	3.44	5.12	6.88	10.32	13.76	15.68	17.60	18.56	19.52	20.48	21.44	22.40	23.40	24.40	25.40
M	.28	.56	.84	1.68	3.04	4.56	6.08	9.12	12.16	13.92	15.68	16.64	17.60	18.56	19.52	20.48	21.44	22.40	23.40
N	.24	.48	.72	1.44	2.88	4.32	5.76	8.64	11.52	13.28	15.04	15.92	16.88	17.84	18.80	19.76	20.72	21.68	22.64
O	.20	.40	.60	1.20	2.40	3.60	4.80	7.20	9.60	11.04	12.48	13.44	14.40	15.36	16.32	17.28	18.24	19.20	20.16
P	.16	.32	.48	.96	1.92	2.88	3.84	5.76	7.68	8.96	10.24	11.04	11.84	12.64	13.44	14.24	15.04	15.84	16.64
Q	.12	.24	.36	.72	1.44	2.16	2.88	4.32	6.48	7.68	8.96	9.60	10.24	10.88	11.52	12.16	12.80	13.44	14.08
R	.08	.16	.24	.48	.96	1.44	2.16	3.24	4.80	5.76	6.72	7.36	7.92	8.48	9.04	9.60	10.16	10.72	11.28
S	.04	.08	.12	.24	.48	.72	1.08	1.62	2.40	2.88	3.36	3.60	3.84	4.08	4.32	4.56	4.80	5.04	5.28

AVERAGE .23 .46 .69 1.35 2.51 4.44 6.20 10.15 14.03 16.45 18.16 19.49 20.57 21.49 22.28 22.98 23.61 24.17 24.69

PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.09	.09	0700	.10	.62	1300	.13	1.27	1900	.18	2.12
	0200	.09	.17	0800	.10	.72	1400	.13	1.41	2000	.18	2.30
	0300	.09	.26	0900	.10	.83	1500	.13	1.54	2100	.18	2.48
	0400	.09	.34	1000	.10	.93	1600	.13	1.67	2200	.18	2.66
	0500	.09	.43	1100	.10	1.04	1700	.13	1.80	2300	.18	2.84
	0600	.09	.52	1200	.10	1.14	1800	.13	1.94	2400	.18	3.02
6-HR TOTAL		.52			.63			.79			1.08	

PR 1.0UT												
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.25	3.27	0700	.51	5.25	1300	1.07	9.69	1900	.48	19.24
	0200	.26	3.54	0800	.55	5.80	1400	1.50	11.19	2000	.44	19.68
	0300	.28	3.81	0900	.60	6.40	1500	1.93	13.12	2100	.41	20.09
	0400	.29	4.10	1000	.66	7.06	1600	2.51	15.63	2200	.38	20.48
	0500	.31	4.41	1100	.74	7.79	1700	1.76	17.39	2300	.36	20.84
	0600	.32	4.73	1200	.82	8.62	1800	1.37	18.76	2400	.34	21.18
6-HR TOTAL		1.71		3.88			10.15			2.42		
DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.22	21.40	0700	.15	22.66	1300	.12	23.54	1900	.09	24.22
	0200	.22	21.62	0800	.15	22.81	1400	.12	23.66	2000	.09	24.31
	0300	.22	21.85	0900	.15	22.97	1500	.12	23.77	2100	.09	24.41
	0400	.22	22.07	1000	.15	23.12	1600	.12	23.89	2200	.09	24.50
	0500	.22	22.29	1100	.15	23.27	1700	.12	24.01	2300	.09	24.60
	0600	.22	22.51	1200	.15	23.43	1800	.12	24.12	2400	.09	24.69
6-HR TOTAL		1.33		.92			.70			.57		

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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 = 161.0, Y = 685.0

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	DEPTHS (INCHES) 4	5	FOR 6-HOUR 6	INCREMENTS OF 7	PMS 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.	0.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	0.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	0.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	1.	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	8.13	3.36	2.10	1.49	1.15	.94	.79	.69	.61	.54	.49	.45
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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

Page 7

1

DAY 1

6-HR TOTAL

DAY 2

6-HR TOTAL

DAY 3

6-HR TOTAL

SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

[illegible]

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

STORM AREA = 1000. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN1
ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 161.0, Y = 685.0

1

PR 1.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	5.03	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	.27	.54	.80	1.56	2.84	4.82	6.61	10.60	14.59	17.06	18.81	20.17	21.28	22.22	23.03	23.74	24.38	24.96	25.49

1

PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.09	.09	0700	.11	.63	1300	.14	1.30	1900	.18	2.16
0200	.09	.18	0800	.11	.74	1400	.14	1.44	2000	.18	2.35
0300	.09	.26	0900	.11	.85	1500	.14	1.57	2100	.18	2.53
0400	.09	.35	1000	.11	.95	1600	.14	1.71	2200	.18	2.72
0500	.09	.44	1100	.11	1.06	1700	.14	1.84	2300	.18	2.90
0600	.09	.53	1200	.11	1.17	1800	.14	1.98	2400	.18	3.09
6-HR TOTAL	.53			.64			.81			1.11	

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	3.35	0700	.53	5.37	1300	1.09	9.92	1900	.49	19.92
0200	.27	3.62	0800	.57	5.93	1400	1.52	11.44	2000	.45	20.37
0300	.28	3.90	0900	.62	6.55	1500	1.98	13.42	2100	.42	20.79
0400	.30	4.20	1000	.68	7.24	1600	2.84	16.26	2200	.39	21.18
0500	.31	4.51	1100	.76	7.99	1700	1.79	18.05	2300	.37	21.55
0600	.33	4.84	1200	.84	8.83	1800	1.38	19.43	2400	.35	21.90
6-HR TOTAL	1.75			3.99			10.60			2.47	

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.23	22.13	0700	.16	23.42	1300	.12	24.32	1900	.10	25.01
0200	.23	22.35	0800	.16	23.57	1400	.12	24.43	2000	.10	25.10
0300	.23	22.58	0900	.16	23.73	1500	.12	24.55	2100	.10	25.20
0400	.23	22.81	1000	.16	23.88	1600	.12	24.67	2200	.10	25.30
0500	.23	23.03	1100	.16	24.04	1700	.12	24.79	2300	.10	25.39
0600	.23	23.26	1200	.16	24.20	1800	.12	24.91	2400	.10	25.49
6-HR TOTAL	1.36			.94			.72			.58	

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*                                     *
* PROBLEMAXIMUM STORM (HMR52)        *
* NOVEMBER 1982                      *
* REVISED APRIL 91                   *
*                                     *
* RUN DATE 06/25/2008   TIME 10:10:36 *
*                                     *
*****

PR 2.0UT

*****
*                                     *
* U.S. ARMY CORPS OF ENGINEERS        *
* THE HYDROLOGIC ENGINEERING CENTER   *
* 609 SECOND STREET                   *
* DAVIS, CALIFORNIA 95616            *
* (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      R      R      5      2
HHHHHHH      M      M      M      RRRRRR      5555555      2
H      H      M      M      R      R      5      5      2
H      H      M      M      R      R      5      5      2
H      H      M      M      R      R      555555      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 100 402
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 2.OUT
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 10:10:36
*****

*****
*
* 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 PR2
 CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	6-HR	12-HR	DURATION 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

PR 2.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.	141.	7.20	1.33	.74	.51	.39	.32	.27	.23	.20	.18	.16	.15	9.27
25.	141.	9.60	2.02	1.17	.82	.63	.51	.43	.37	.33	.29	.27	.24	12.80
50.	141.	11.30	2.54	1.51	1.06	.82	.67	.56	.49	.43	.38	.35	.32	15.35
100.	141.	12.68	3.01	1.82	1.29	1.00	.82	.69	.60	.53	.47	.43	.39	17.51
175.	141.	13.78	3.36	2.07	1.48	1.15	.94	.79	.69	.61	.54	.49	.45	19.21
300.	141.	14.68	3.80	2.33	1.66	1.29	1.06	.89	.78	.68	.61	.55	.51	20.81
450.	141.	15.22	4.12	2.50	1.77	1.38	1.13	.95	.83	.73	.65	.59	.54	21.83
700.	141.	15.26	4.41	2.62	1.85	1.44	1.17	.99	.86	.76	.68	.61	.56	22.29
1000.	141.	14.99	4.58	2.67	1.88	1.46	1.19	1.00	.87	.77	.69	.62	.57	22.24
1500.	141.	14.28	4.38	2.58	1.83	1.42	1.17	.99	.86	.76	.68	.61	.56	21.23
2150.	141.	13.32	4.10	2.44	1.74	1.36	1.12	.95	.82	.73	.65	.59	.54	19.85
3000.	141.	12.16	3.78	2.26	1.62	1.27	1.05	.89	.78	.69	.62	.56	.51	18.20
4500.	141.	11.48	3.63	2.20	1.59	1.26	1.04	.89	.77	.68	.61	.56	.51	17.31
6500.	141.	10.99	3.43	2.09	1.52	1.20	1.00	.85	.75	.66	.59	.54	.49	16.50
10000.	141.	10.29	3.16	1.94	1.41	1.13	.94	.80	.70	.62	.56	.51	.47	15.38
15000.	141.	9.62	2.96	1.81	1.32	1.06	.88	.76	.66	.59	.53	.48	.44	14.39
20000.	141.	8.98	2.80	1.72	1.26	1.01	.84	.72	.63	.56	.51	.46	.42	13.51

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.	15.26	4.41	2.62	1.85	1.44	1.18	.99	.86	.76	.68	.61	.56	22.29
700.	150.	15.18	4.39	2.61	1.85	1.43	1.17	.99	.86	.76	.68	.61	.56	22.18
700.	160.	15.17	4.40	2.62	1.85	1.44	1.17	.99	.86	.76	.68	.61	.56	22.18
700.	170.	15.12	4.39	2.62	1.85	1.44	1.17	.99	.86	.76	.68	.61	.56	22.13
700.	180.	15.01	4.37	2.60	1.84	1.43	1.17	.99	.85	.75	.67	.61	.56	21.98
700.	190.	14.84	4.33	2.57	1.82	1.41	1.15	.98	.84	.75	.67	.60	.55	21.74
700.	200.	14.70	4.29	2.55	1.80	1.40	1.14	.97	.84	.74	.66	.60	.55	21.53
700.	210.	14.57	4.25	2.53	1.79	1.39	1.13	.96	.83	.73	.65	.59	.54	21.35
700.	220.	14.49	4.24	2.52	1.78	1.38	1.13	.96	.83	.73	.65	.59	.54	21.25
700.	230.	14.43	4.23	2.52	1.78	1.38	1.13	.95	.83	.73	.65	.59	.54	21.18
700.	240.	14.41	4.23	2.52	1.78	1.38	1.13	.96	.83	.73	.65	.59	.54	21.16
700.	250.	14.43	4.25	2.53	1.79	1.39	1.14	.96	.83	.73	.66	.59	.54	21.22
700.	260.	14.45	4.25	2.54	1.80	1.39	1.14	.96	.83	.74	.66	.60	.54	21.24
700.	270.	14.47	4.25	2.54	1.80	1.39	1.14	.96	.83	.74	.66	.60	.54	21.27
700.	280.	14.56	4.26	2.54	1.80	1.40	1.14	.96	.84	.74	.66	.60	.54	21.36
700.	290.	14.81	4.32	2.57	1.82	1.41	1.15	.98	.85	.75	.67	.60	.55	21.69
700.	300.	15.05	4.36	2.60	1.84	1.43	1.17	.99	.85	.75	.67	.61	.56	22.01
700.	310.	15.21	4.40	2.61	1.85	1.44	1.17	.99	.86	.76	.68	.61	.56	22.22
700.	135.	15.26	4.41	2.62	1.85	1.44	1.18	.99	.86	.76	.68	.61	.56	22.28
700.	145.	15.24	4.40	2.62	1.85	1.44	1.17	.99	.86	.76	.68	.61	.56	22.26

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PROBABLE MAXIMUM STORM FOR CPNPP
 STORM AREA = 700. SQ. MI., ORIENTATION = 140., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 100.0, Y = 402.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) 4	5	FOR 6-HOUR 6	INCREMENTS OF PMS 7	8	9	10	11	12
A 10.	10.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	24.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	42.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	73.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E 175.	115.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F 300.	165.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	264.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H 700.	365.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I 1000.	425.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	478.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K 2150.	509.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L 3000.	509.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M 4500.	509.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N 6500.	509.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O 10000.	509.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		15.26	4.41	2.62	1.85	1.44	1.18	.99	.86	.76	.68	.61	.56

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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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29

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PR 2.OUT																			
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.18	.37	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68
J	.14	.28	.42	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
K	.10	.21	.31	.62	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76
L	.08	.15	.23	.46	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37
M	.05	.10	.15	.30	.60	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06
N	.03	.06	.08	.17	.33	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72
O	.01	.02	.03	.06	.13	.25	.37	.67	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69
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	3.05	5.23	7.96	10.34	15.26	19.67	22.29	24.14	25.58	26.76	27.75	28.61	29.37	30.05	30.66	31.22

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.09	.09	0700	.11	.67	1300	.14	1.38	1900	.20	2.30
0200	.09	.19	0800	.11	.79	1400	.14	1.53	2000	.20	2.49
0300	.09	.28	0900	.11	.90	1500	.14	1.67	2100	.20	2.69
0400	.09	.37	1000	.11	1.01	1600	.14	1.81	2200	.20	2.88
0500	.09	.47	1100	.11	1.13	1700	.14	1.96	2300	.20	3.08
0600	.09	.56	1200	.11	1.24	1800	.14	2.10	2400	.20	3.28
6-HR TOTAL	.56		.68			.86			1.18		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.27	3.55	0700	.57	5.70	1300	1.30	10.83	1900	.52	25.32
0200	.29	3.84	0800	.61	6.31	1400	1.91	12.75	2000	.48	25.80
0300	.30	4.13	0900	.67	6.98	1500	2.73	15.48	2100	.44	26.25
0400	.31	4.45	1000	.75	7.73	1600	5.23	20.71	2200	.41	26.66
0500	.33	4.78	1100	.85	8.58	1700	2.38	23.08	2300	.39	27.05
0600	.35	5.13	1200	.96	9.54	1800	1.71	24.80	2400	.37	27.42
6-HR TOTAL	1.85		4.41			15.26			2.62		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	27.66	0700	.17	29.02	1300	.13	29.98	1900	.10	30.71
0200	.24	27.90	0800	.17	29.19	1400	.13	30.10	2000	.10	30.81
0300	.24	28.14	0900	.17	29.35	1500	.13	30.23	2100	.10	30.92
0400	.24	28.38	1000	.17	29.52	1600	.13	30.36	2200	.10	31.02
0500	.24	28.62	1100	.17	29.68	1700	.13	30.48	2300	.10	31.12
0600	.24	28.86	1200	.17	29.85	1800	.13	30.61	2400	.10	31.22
6-HR TOTAL	1.44		.99			.76			.61		

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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

1

PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 700. SQ. MI., ORIENTATION = 140., PREFERRED ORIENTATION = 215.

STORM CENTER COORDINATES, X = PR 2.0UT 100.0, Y = 402.0											
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	FOR 6-HOUR	INCREMENTS	OF PMS	10	11	12
					4	5	6	7	8	9	
A 10.	10.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72
B 25.	24.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72
C 50.	42.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72
D 100.	72.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72
E 175.	115.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72
F 300.	186.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72
G 450.	244.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72
H 700.	294.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72
I 1000.	332.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61
J 1500.	380.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51
K 2150.	410.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42
L 3000.	411.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34
M 4500.	411.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27
N 6500.	411.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18
O 10000.	411.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.53	4.41	2.61	1.84	1.43	1.17	.99	.86	.75	.67

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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
A	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37
B	.85	1.70	2.53	4.88	8.23	12.15	15.34	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87
I	.48	.97	1.41	2.83	4.63	6.81	8.96	13.03	17.33	20.08	22.04	23.56	24.80	25.85	26.76	27.56
J	.44	.91	1.35	2.71	4.41	6.50	8.63	12.66	16.93	19.68	21.64	23.16	24.40	25.45	26.36	27.16
K	.40	.85	1.29	2.57	4.27	6.36	8.49	12.52	16.79	19.54	21.50	23.02	24.26	25.31	26.22	27.02
L	.37	.80	1.23	2.46	4.16	6.25	8.38	12.41	16.68	19.43	21.39	22.91	24.15	25.20	26.11	26.91
M	.34	.76	1.19	2.39	4.09	6.18	8.31	12.34	16.61	19.36	21.32	22.84	24.08	25.13	26.04	26.84
N	.31	.72	1.15	2.34	4.04	6.13	8.26	12.29	16.56	19.31	21.27	22.79	24.03	25.08	25.99	26.79
O	.28	.68	1.11	2.30	3.99	6.08	8.21	12.24	16.51	19.26	21.22	22.74	23.98	25.03	25.94	26.74
P	.25	.64	1.07	2.26	3.95	6.04	8.17	12.20	16.47	19.22	21.18	22.70	23.94	25.00	25.91	26.71
Q	.22	.60	1.03	2.22	3.91	6.00	8.13	12.16	16.43	19.18	21.14	22.66	23.90	24.95	25.86	26.66
R	.20	.57	1.00	2.19	3.88	5.97	8.10	12.13	16.40	19.15	21.11	22.63	23.87	24.92	25.83	26.63
S	.18	.54	.97	2.16	3.85	5.94	8.07	12.10	16.37	19.12	21.08	22.60	23.84	24.89	25.80	26.60
AVERAGE	.54	1.08	1.61	3.11	5.32	8.10	10.53	15.53	19.94	22.55	24.39	25.82	26.99	27.97	28.83	29.58

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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	.09	.09	0700	.11	.67	1300	.14	1.37	1900	.19	2.28
0200	.09	.19	0800	.11	.78	1400	.14	1.52	2000	.19	2.48
0300	.09	.28	0900	.11	.89	1500	.14	1.66	2100	.19	2.67
0400	.09	.37	1000	.11	1.01	1600	.14	1.80	2200	.19	2.87
0500	.09	.46	1100	.11	1.12	1700	.14	1.94	2300	.19	3.06
0600	.09	.56	1200	.11	1.23	1800	.14	2.09	2400	.19	3.26
6-HR TOTAL	.56			.67			.86			1.17	
DAY 2											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.27	3.53	0700	.56	5.66	1300	1.31	10.82	1900	.52	25.56
0200	.28	3.81	0800	.61	6.27	1400	1.95	12.77	2000	.48	26.04
0300	.30	4.11	0900	.67	6.95	1500	2.78	15.55	2100	.44	26.48
0400	.31	4.42	1000	.75	7.70	1600	5.32	20.87	2200	.41	26.89
0500	.33	4.75	1100	.85	8.55	1700	2.42	23.29	2300	.39	27.28
0600	.35	5.10	1200	.96	9.51	1800	1.74	25.04	2400	.37	27.64
6-HR TOTAL	1.84		4.41			15.53			2.61		
DAY 3											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	27.88	0700	.16	29.24	1300	.13	30.19	1900	.10	30.92
0200	.24	28.12	0800	.16	29.40	1400	.13	30.31	2000	.10	31.02
0300	.24	28.36	0900	.16	29.57	1500	.13	30.44	2100	.10	31.12
0400	.24	28.60	1000	.16	29.73	1600	.13	30.56	2200	.10	31.22
0500	.24	28.83	1100	.16	29.90	1700	.13	30.69	2300	.10	31.32
0600	.24	29.07	1200	.16	30.06	1800	.13	30.81	2400	.10	31.43
6-HR TOTAL	1.43		.99			.75			.61		

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SUBBASIN3										
PR 2.OUT										
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 = 140., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 100.0, Y = 402.0

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES)	FOR 6-HOUR	INCREMENTS OF	PMS	10	11	12
					4	5	6	7	8	9	
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72
E 175.	0.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72
F 300.	0.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72
G 450.	7.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72
H 700.	20.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72
I 1000.	24.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61
J 1500.	24.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51
K 2150.	24.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42
L 3000.	24.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34
M 4500.	24.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27
N 6500.	24.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18
O 10000.	24.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		14.69	4.48	2.72	1.94	1.50	1.23	1.04	.90	.79	.71

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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
A	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59
I	.48	.97	1.42	2.83	4.65	6.98	9.31	13.30	17.65	20.39	22.35	23.87	25.11	26.16	27.07	27.87	28.59
J	.44	.88	1.32	2.65	4.35	6.52	8.74	12.49	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18
K	.40	.80	1.20	2.40	4.00	6.00	8.00	11.18	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
L	.36	.72	1.08	2.16	3.60	5.40	7.20	10.23	13.38	14.51	15.38	16.05	16.61	17.09	17.50	17.86	18.18
M	.32	.64	.96	1.92	3.20	4.80	6.40	9.05	11.88	12.91	13.78	14.45	15.01	15.49	15.90	16.26	16.58
N	.28	.56	.84	1.68	2.80	4.20	5.60	7.93	10.44	11.47	12.34	13.01	13.57	14.05	14.46	14.82	15.14
O	.24	.48	.72	1.44	2.40	3.60	4.80	6.77	9.05	9.91	10.68	11.24	11.71	12.12	12.48	12.80	13.09
P	.20	.40	.60	1.20	2.00	3.00	4.00	5.77	7.66	8.42	9.09	9.65	10.12	10.53	10.90	11.22	11.51
Q	.16	.32	.48	.96	1.60	2.40	3.20	4.55	6.08	6.77	7.33	7.80	8.21	8.57	8.89	9.18	9.45
R	.12	.24	.36	.72	1.20	1.80	2.40	3.41	4.54	5.00	5.47	5.85	6.17	6.45	6.70	6.93	7.15
S	.08	.16	.24	.48	.80	1.20	1.60	2.27	3.03	3.33	3.61	3.86	4.08	4.27	4.44	4.60	4.75
AVERAGE	.53	1.06	1.57	3.03	5.16	7.77	10.01	14.69	19.17	21.89	23.83	25.33	26.56	27.59	28.49	29.29	30.00

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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
	0100	.10	.10	0700	.12	.70	1300	.15	1.44	1900	.20
	0200	.10	.20	0800	.12	.82	1400	.15	1.59	2000	.20
	0300	.10	.29	0900	.12	.94	1500	.15	1.74	2100	.20
	0400	.10	.39	1000	.12	1.06	1600	.15	1.89	2200	.20
	0500	.10	.49	1100	.12	1.18	1700	.15	2.04	2300	.20
	0600	.10	.59	1200	.12	1.29	1800	.15	2.19	2400	.20
6-HR TOTAL		.59			.71			.90		1.23	

PR 2.OUT												
DAY 2	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	0100	.29	3.71	0700	.58	5.94	1300	1.25	11.09	1900	.54	25.07
	0200	.30	4.01	0800	.63	6.57	1400	1.81	12.90	2000	.50	25.57
	0300	.31	4.32	0900	.69	7.26	1500	2.60	15.51	2100	.46	26.03
	0400	.33	4.65	1000	.77	8.03	1600	5.16	20.67	2200	.43	26.46
	0500	.35	4.99	1100	.85	8.88	1700	2.24	22.91	2300	.40	26.86
	0600	.37	5.36	1200	.96	9.84	1800	1.62	24.53	2400	.38	27.25
	6-HR TOTAL	1.94		4.48			14.69			2.72		

DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.25	27.50	0700	.17	28.92	1300	.13	29.92	1900	.11	30.69
	0200	.25	27.75	0800	.17	29.10	1400	.13	30.05	2000	.11	30.79
	0300	.25	28.00	0900	.17	29.27	1500	.13	30.18	2100	.11	30.90
	0400	.25	28.25	1000	.17	29.44	1600	.13	30.32	2200	.11	31.01
	0500	.25	28.50	1100	.17	29.62	1700	.13	30.45	2300	.11	31.12
	0600	.25	28.75	1200	.17	29.79	1800	.13	30.58	2400	.11	31.22
6-HR TOTAL		1.50			1.04			.79			.64	

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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
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2
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 = 140., PREFERRED ORIENTATION = 215.													
STORM CENTER COORDINATES, X = 100.0, Y = 402.0													
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) 4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E 175.	0.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F 300.	0.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	1.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H 700.	10.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I 1000.	10.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	10.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K 2150.	10.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L 3000.	10.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M 4500.	10.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N 6500.	10.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O 10000.	10.	.67	.43	.36	.25	.20	.16	.14	.12	.10	.09	.08	.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		14.84	4.54	2.75	1.96	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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.48	.97	1.55	3.00	4.88	7.33	9.69	14.30	18.65	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
J	.44	.88	1.32	2.63	4.15	6.31	8.25	12.47	16.32	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68	25.15
K	.40	.81	1.21	2.31	3.65	5.35	7.07	10.89	14.30	16.13	17.33	18.27	19.00	19.61	20.14	20.61	21.03	21.41	21.75
L	.38	.76	1.13	2.11	3.21	4.61	6.17	9.41	12.33	13.88	15.29	16.47	17.20	17.84	18.41	18.92	19.37	19.79	20.17
M	.35	.70	1.05	1.93	2.83	4.21	5.61	8.41	11.13	12.53	13.88	15.17	16.13	16.86	17.43	17.94	18.41	18.84	19.23
N	.33	.66	.99	1.73	2.59	3.86	5.14	7.71	10.13	11.38	12.53	13.61	14.52	15.29	16.01	16.61	17.18	17.71	18.20
O	.31	.62	.93	1.61	2.37	3.54	4.72	7.07	9.13	10.16	11.16	12.07	12.84	13.52	14.14	14.71	15.25	15.76	16.23
P	.30	.60	.90	1.50	2.25	3.38	4.51	6.77	8.83	9.77	10.67	11.50	12.28	12.97	13.59	14.16	14.71	15.22	15.70
Q	.30	.60	.90	1.50	2.25	3.38	4.51	6.77	8.83	9.77	10.67	11.50	12.28	12.97	13.59	14.16	14.71	15.22	15.70

		PR 2. OUT																		
R		.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	
1	AVERAGE	.55	1.10	1.64	3.15	5.34	7.95	10.19	14.84	19.38	22.12	24.08	25.61	26.85	27.90	28.81	29.61	30.33	30.98	31.57

PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		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 2.64
	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

DAY 2											
TIME		PRECIPITATION		TIME		PRECIPITATION		TIME		PRECIPITATION	
		INCR	TOTAL			INCR	TOTAL			INCR	TOTAL
0100	.29	3.75	0700	.59	6.01	1300	1.25	11.21	1900	.55	25.35
0200	.30	4.06	0800	.64	6.65	1400	1.79	13.01	2000	.50	25.85
0300	.32	4.37	0900	.70	7.36	1500	2.61	15.62	2100	.47	26.32
0400	.33	4.70	1000	.78	8.13	1600	5.34	20.96	2200	.43	26.75
0500	.35	5.05	1100	.86	9.00	1700	2.23	23.19	2300	.41	27.16
0600	.37	5.42	1200	.96	9.96	1800	1.61	24.80	2400	.39	27.55
6-HR TOTAL		1.96		4.54		14.84			2.75		

DAY 3												
	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.25	27.80	0700	.18	29.24	1300	.13	30.25	1900	.11	31.03
	0200	.25	28.05	0800	.18	29.42	1400	.13	30.39	2000	.11	31.14
	0300	.25	28.31	0900	.18	29.59	1500	.13	30.52	2100	.11	31.25
	0400	.25	28.56	1000	.18	29.77	1600	.13	30.65	2200	.11	31.35
	0500	.25	28.82	1100	.18	29.94	1700	.13	30.79	2300	.11	31.46
	0600	.25	29.07	1200	.18	30.12	1800	.13	30.92	2400	.11	31.57
	6-HR TOTAL	1.52			1.05			.80			.65	

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

STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN1
ORIENTATION = 140., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 100.0, Y = 402.0

ISOHYET AREA (SQ. MI.)		AREA WITHIN BASIN (SQ. MI.)	STATION CENTER COORDINATES, X = 100.0, Y = 40.0											
			1	2	3	DEPTHS (INCHES)		FOR 6-HOUR INCREMENTS		OF PMS		10	11	12
						4	5	6	7	8	9			
A	10.	0.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B	25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C	0.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D	100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
E	175	0.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
F	300.	0.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G	450.	12.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
H	700.	40.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
I	1000.	58.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J	1500.	68.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57	.51	.46	.42
K	2150.	64.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47	.42	.38	.35
L	3000.	64.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38	.34	.31	.28
M	4500.	64.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30	.27	.24	.22
N	6500.	64.	1.69	.92	.70	.50	.39	.32	.27	.23	.20	.18	.17	.15
O	10000.	64.	.67	.33	.36	.22	.20	.16	.12	.10	.09	.08	.08	.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			13.78	4.31	2.63	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57

PR 2.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	.91	1.82	2.71	5.21	8.78	12.93	16.52	23.60	29.00	31.88	33.84	35.36	36.61	37.66	38.57	39.37	40.09	40.74	41.33
B	.85	1.70	2.53	4.88	8.23	12.15	15.54	22.25	27.44	30.29	32.25	33.77	35.01	36.06	36.97	37.77	38.49	39.14	39.73
C	.80	1.59	2.37	4.56	7.70	11.39	14.56	20.90	25.95	28.76	30.72	32.24	33.49	34.54	35.45	36.25	36.97	37.62	38.21
D	.74	1.47	2.18	4.20	7.10	10.52	13.46	19.38	24.29	27.08	29.04	30.56	31.80	32.85	33.76	34.57	35.28	35.93	36.53
E	.68	1.36	2.02	3.89	6.58	9.76	12.49	18.03	22.80	25.57	27.53	29.05	30.30	31.35	32.26	33.06	33.78	34.43	35.02
F	.62	1.23	1.84	3.54	5.99	8.89	11.39	16.52	21.19	23.95	25.91	27.43	28.68	29.73	30.64	31.44	32.16	32.81	33.40
G	.58	1.15	1.72	3.30	5.60	8.33	10.66	15.51	20.09	22.84	24.80	26.32	27.56	28.61	29.52	30.33	31.04	31.69	32.29
H	.53	1.05	1.56	3.00	5.08	7.57	9.69	14.16	18.64	21.39	23.35	24.87	26.11	27.16	28.07	28.87	29.59	30.24	30.83
I	.48	.97	.55	1.10	2.19	4.31	6.28	10.62	14.30	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68
J	.44	.92	.52	.83	1.65	3.25	4.74	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92	19.37	19.79
K	.40	.87	.48	.76	1.23	2.41	3.51	6.07	8.62	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41	15.76
L	.38	.85	.45	.72	.91	1.79	2.61	4.55	6.63	7.93	8.85	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37
M	.35	.80	.42	.68	.80	1.18	1.72	3.03	4.55	5.57	6.29	6.86	7.32	7.70	8.04	8.34	8.60	8.84	9.06
N	.33	.76	.40	.64	.73	.64	.94	1.69	2.61	3.31	3.81	4.20	4.52	4.78	5.02	5.22	5.40	5.57	5.72
O	.31	.72	.38	.61	.68	.25	.37	.67	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69
P	.30	.69	.36	.58	.64	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.30	.69	.36	.58	.64	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.30	.69	.36	.58	.64	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.30	.69	.36	.58	.64	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.47	.93	1.38	2.67	4.59	7.07	9.23	13.78	18.10	20.73	22.61	24.07	25.26	26.26	27.14	27.90	28.59	29.21	29.78

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PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.09	.09	0700	.11	.68	1300	.15	1.40	1900	.20	2.33
0200	.09	.19	0800	.11	.80	1400	.15	1.55	2000	.20	2.52
0300	.09	.28	0900	.11	.91	1500	.15	1.69	2100	.20	2.72
0400	.09	.38	1000	.11	1.03	1600	.15	1.84	2200	.20	2.92
0500	.09	.47	1100	.11	1.14	1700	.15	1.98	2300	.20	3.12
0600	.09	.57	1200	.11	1.26	1800	.15	2.13	2400	.20	3.32
6-HR TOTAL	.57		.69			.87			1.19		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.28	3.60	0700	.56	5.76	1300	1.22	10.73	1900	.52	23.82
0200	.29	3.89	0800	.61	6.36	1400	1.76	12.48	2000	.48	24.30
0300	.30	4.19	0900	.66	7.03	1500	2.48	14.96	2100	.45	24.75
0400	.32	4.51	1000	.74	7.77	1600	4.59	19.55	2200	.42	25.16
0500	.34	4.84	1100	.82	8.59	1700	2.16	21.71	2300	.39	25.55
0600	.35	5.20	1200	.92	9.51	1800	1.58	23.29	2400	.37	25.93
6-HR TOTAL	1.88		4.31			13.78			2.63		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	26.17	0700	.17	27.55	1300	.13	28.52	1900	.10	29.26
0200	.24	26.41	0800	.17	27.72	1400	.13	28.65	2000	.10	29.37
0300	.24	26.66	0900	.17	27.89	1500	.13	28.78	2100	.10	29.47
0400	.24	26.90	1000	.17	28.06	1600	.13	28.90	2200	.10	29.57
0500	.24	27.14	1100	.17	28.22	1700	.13	29.03	2300	.10	29.68
0600	.24	27.38	1200	.17	28.39	1800	.13	29.16	2400	.10	29.78
6-HR TOTAL	1.46		1.01			.77			.62		

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PR 3.OUT

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1*****
*
* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
*
* RUN DATE 06/25/2008 TIME 10:11:12
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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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      H      H      M      M      RRRRRR      555555      22222
      H      H      MM     MM      R      R      5      2      2
      H      H      M      M      M      R      R      5      2
      HHHHHH      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

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HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1      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 PR3
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
35     ST 150 411
36     ST 60 0.308
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

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1

HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 2

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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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Page 1

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PR 3.OUT
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 10:11:12
*
*****
*
* 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 PR3
CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
25.	22.20	26.80	32.00	36.00	39.60
50.	15.90	20.70	25.80	30.00	33.40
100.	9.30	13.00	17.80	22.00	25.00
5000.	7.10	10.30	14.40	18.50	21.00
10000.	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

PR 3.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.	161.	8.42	1.55	.86	.60	.46	.37	.31	.27	.24	.21	.19	.17	10.82
25.	161.	11.07	2.31	1.34	.93	.72	.59	.49	.43	.38	.34	.30	.28	14.71
50.	161.	13.02	2.88	1.69	1.19	.92	.75	.63	.55	.48	.43	.39	.36	17.59
100.	161.	14.54	3.36	2.02	1.43	1.11	.91	.77	.66	.59	.52	.47	.43	19.93
175.	161.	15.71	3.71	2.27	1.62	1.26	1.03	.87	.76	.67	.60	.54	.49	21.69
300.	161.	16.56	4.14	2.51	1.79	1.39	1.14	.96	.84	.74	.66	.60	.55	23.21
450.	161.	16.97	4.43	2.66	1.89	1.47	1.20	1.01	.88	.78	.69	.63	.57	24.05
700.	161.	16.84	4.68	2.75	1.95	1.51	1.23	1.04	.90	.80	.71	.64	.59	24.27
1000.	161.	16.43	4.83	2.78	1.96	1.51	1.24	1.05	.90	.80	.71	.65	.59	24.04
1500.	161.	15.67	4.61	2.68	1.90	1.48	1.21	1.02	.89	.78	.70	.64	.58	22.96
2150.	161.	14.83	4.36	2.57	1.83	1.43	1.17	1.00	.87	.77	.69	.62	.57	21.76
3000.	161.	13.90	4.13	2.44	1.75	1.37	1.13	.96	.84	.74	.66	.60	.55	20.47
4500.	161.	13.11	3.96	2.38	1.71	1.35	1.12	.95	.83	.74	.66	.60	.55	19.45
6500.	161.	12.55	3.74	2.26	1.63	1.30	1.08	.92	.80	.71	.64	.58	.53	18.54
10000.	161.	11.74	3.45	2.09	1.52	1.21	1.01	.87	.76	.67	.61	.55	.50	17.27
15000.	161.	10.97	3.23	1.96	1.42	1.14	.95	.82	.71	.64	.57	.52	.48	16.15
20000.	161.	10.23	3.06	1.86	1.35	1.09	.91	.78	.68	.61	.55	.50	.46	15.15

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.	16.31	4.58	2.70	1.91	1.48	1.21	1.02	.89	.78	.70	.63	.58	23.59
700.	150.	16.56	4.62	2.72	1.93	1.49	1.22	1.03	.89	.79	.71	.64	.58	23.90
700.	160.	16.82	4.68	2.75	1.94	1.51	1.23	1.04	.90	.80	.71	.64	.59	24.25
700.	170.	16.91	4.70	2.76	1.95	1.51	1.24	1.05	.91	.80	.72	.65	.59	24.37
700.	180.	16.82	4.68	2.75	1.94	1.51	1.23	1.04	.90	.80	.71	.64	.59	24.25
700.	190.	16.53	4.62	2.72	1.92	1.49	1.22	1.03	.89	.79	.70	.64	.58	23.87
700.	200.	16.19	4.55	2.68	1.89	1.47	1.20	1.02	.88	.78	.69	.63	.57	23.42
700.	210.	15.83	4.48	2.64	1.87	1.45	1.18	1.00	.87	.77	.68	.62	.57	22.96
700.	220.	15.49	4.42	2.61	1.85	1.43	1.17	.99	.86	.76	.68	.61	.56	22.52
700.	230.	15.20	4.37	2.58	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	22.15
700.	240.	14.99	4.33	2.57	1.82	1.41	1.15	.97	.84	.74	.66	.60	.55	21.89
700.	250.	14.88	4.32	2.56	1.81	1.41	1.15	.97	.84	.74	.66	.60	.55	21.76
700.	260.	14.81	4.30	2.55	1.81	1.40	1.15	.97	.84	.74	.66	.60	.55	21.66
700.	270.	14.78	4.29	2.55	1.80	1.40	1.14	.97	.84	.74	.66	.60	.55	21.62
700.	280.	14.86	4.30	2.55	1.81	1.40	1.14	.97	.84	.74	.66	.60	.55	21.72
700.	290.	15.18	4.36	2.59	1.83	1.42	1.16	.98	.85	.75	.67	.61	.55	22.13
700.	300.	15.55	4.44	2.63	1.86	1.44	1.18	1.00	.86	.76	.68	.62	.56	22.62
700.	310.	15.95	4.51	2.67	1.89	1.46	1.20	1.01	.88	.77	.69	.63	.57	23.13
700.	165.	16.88	4.69	2.76	1.95	1.51	1.24	1.04	.90	.80	.71	.65	.59	24.33
700.	175.	16.92	4.70	2.76	1.95	1.52	1.24	1.05	.91	.80	.72	.65	.59	24.38

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PROBABLE MAXIMUM STORM FOR CPNPP
 STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 150.0, Y = 411.0

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR INCREMENTS	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.	171.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
F 300.	266.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
G 450.	341.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
H 700.	413.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
I 1000.	470.	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		16.92	4.70	2.76	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	.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

Page 3

		PR 3. 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	.61	1.22	1.81	3.49	5.95	8.96	11.57	16.92	21.62	24.38	26.34	27.85	29.09	30.14	31.04	31.84	32.56	33.21	33.80								

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PROBABLE MAXIMUM STORM FOR CPNPP

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	2.42
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	2.83
0400	.10	.39	1000	.12	1.07	1600	.15	1.91	2200	.21	3.04
0500	.10	.49	1100	.12	1.19	1700	.15	2.06	2300	.21	3.24
0600	.10	.59	1200	.12	1.31	1800	.15	2.21	2400	.21	3.45
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	3.74	0700	.60	6.00	1300	1.40	11.51	1900	.55	27.58
0200	.30	4.04	0800	.65	6.66	1400	2.09	13.59	2000	.51	28.09
0300	.31	4.35	0900	.72	7.37	1500	3.01	16.60	2100	.47	28.56
0400	.33	4.69	1000	.80	8.18	1600	5.95	22.56	2200	.43	28.99
0500	.35	5.03	1100	.91	9.08	1700	2.61	25.16	2300	.41	29.40
0600	.37	5.40	1200	1.02	10.11	1800	1.86	27.03	2400	.39	29.79
6-HR TOTAL	1.95		4.70			16.92			2.76		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	30.04	0700	.17	31.48	1300	.13	32.48	1900	.11	33.26
0200	.25	30.29	0800	.17	31.65	1400	.13	32.62	2000	.11	33.37
0300	.25	30.55	0900	.17	31.83	1500	.13	32.75	2100	.11	33.47
0400	.25	30.80	1000	.17	32.00	1600	.13	32.88	2200	.11	33.58
0500	.25	31.05	1100	.17	32.18	1700	.13	33.02	2300	.11	33.69
0600	.25	31.30	1200	.17	32.35	1800	.13	33.15	2400	.11	33.80
6-HR TOTAL	1.52		1.05			.80			.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	693.1	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.

PR 3.OUT STORM CENTER COORDINATES, X = 150.0, Y = 411.0													
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) 4	5	FOR 6-HOUR INCREMENTS	7	8	OF PMS 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.	171.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	265.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	333.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	385.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	407.	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		18.02	4.86	2.82	1.99	1.55	1.26	1.07	.92	.82	.73	.66	.60

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	.49	.98	1.43	2.74	4.41	6.42	8.64	12.63	17.03	19.73	21.73	23.28	24.55	25.62	26.55	27.37	28.10	28.75	29.35
J	.44	.88	1.28	2.43	3.85	5.59	7.88	11.44	15.44	17.94	19.94	21.49	22.76	23.83	24.76	25.58	26.31	26.96	27.56
K	.41	.82	1.21	2.32	3.63	5.25	7.46	10.47	14.47	16.97	18.97	20.52	21.79	22.86	23.79	24.61	25.34	26.00	26.60
L	.38	.76	1.15	2.23	3.47	5.09	7.30	10.31	14.31	16.81	18.81	20.36	21.63	22.70	23.63	24.45	25.18	25.84	26.44
M	.35	.70	1.10	2.15	3.31	4.93	7.14	10.15	14.15	16.65	18.65	20.20	21.47	22.54	23.47	24.29	25.02	25.68	26.28
N	.33	.66	1.08	2.17	3.44	5.06	7.27	10.28	14.28	16.78	18.78	20.33	21.60	22.67	23.60	24.42	25.15	25.81	26.41
O	.31	.62	1.03	2.07	3.32	4.94	7.15	10.16	14.16	16.66	18.66	20.21	21.48	22.55	23.48	24.30	25.03	25.69	26.29
P	.30	.60	1.00	2.00	3.00	4.50	6.75	10.12	14.12	16.62	18.62	20.17	21.44	22.51	23.44	24.26	24.99	25.65	26.25
Q	.30	.60	1.00	2.00	3.00	4.50	6.75	10.12	14.12	16.62	18.62	20.17	21.44	22.51	23.44	24.26	24.99	25.65	26.25
R	.30	.60	1.00	2.00	3.00	4.50	6.75	10.12	14.12	16.62	18.62	20.17	21.44	22.51	23.44	24.26	24.99	25.65	26.25
S	.30	.60	1.00	2.00	3.00	4.50	6.75	10.12	14.12	16.62	18.62	20.17	21.44	22.51	23.44	24.26	24.99	25.65	26.25
AVERAGE	.67	1.34	2.00	3.84	6.51	9.70	12.44	18.02	22.88	25.70	27.69	29.24	30.50	31.57	32.49	33.31	34.04	34.70	35.30

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	1.49	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	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	
0100	.30	3.82	0700	.62	6.13	1300	1.46	11.83	1900	.57	28.96	
0200	.31	4.12	0800	.67	6.80	1400	2.18	14.01	2000	.52	29.48	
0300	.32	4.44	0900	.74	7.54	1500	3.18	17.19	2100	.48	29.95	
0400	.34	4.78	1000	.83	8.37	1600	6.51	23.70	2200	.44	30.40	
0500	.36	5.14	1100	.94	9.31	1700	2.74	26.45	2300	.42	30.81	
0600	.38	5.51	1200	1.06	10.37	1800	1.94	28.39	2400	.40	31.21	
6-HR TOTAL	1.99		4.86			18.02			2.82			
DAY 3												
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	
0100	.26	31.47	0700	.18	32.93	1300	.14	33.96	1900	.11	34.75	
0200	.26	31.73	0800	.18	33.11	1400	.14	34.10	2000	.11	34.86	
0300	.26	31.98	0900	.18	33.29	1500	.14	34.23	2100	.11	34.97	
0400	.26	32.24	1000	.18	33.47	1600	.14	34.37	2200	.11	35.08	
0500	.26	32.50	1100	.18	33.65	1700	.14	34.50	2300	.11	35.19	
0600	.26	32.76	1200	.18	33.82	1800	.14	34.64	2400	.11	35.30	
6-HR TOTAL	1.55		1.07			.82			.66			

SUBBASIN3																				
PR 3.OUT																				
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																				
STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN3 STORM CENTER COORDINATES, X = 150.0, Y = 411.0, PREFERRED ORIENTATION = 215.																				
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	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.	7.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61							
H 700.	20.	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		15.04	4.58	2.78	1.98	1.54	1.25	1.06	.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		.54	1.08	1.61	3.10	5.28	7.95	10.25	15.04	19.63	22.41	24.39	25.92	27.18	28.24	29.16	29.97	30.69	31.35	31.95
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	.54	1.08	1.61	3.10	5.28	7.95	10.25	15.04	19.63	22.41	24.39	25.92	27.18	28.24	29.16	29.97	30.69	31.35	31.95
1																			

PROBABLE MAXIMUM STORM FOR BASIN3												
DAY 1	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	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		1.25				

PR 3.0UT											
DAY 2											
TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		INCR	TOTAL
0100	.29	3.79	0700	.60	6.07	1300	1.28	11.35	1900	.55	25.66
0200	.30	4.10	0800	.65	6.72	1400	1.85	13.20	2000	.51	26.17
0300	.32	4.41	0900	.71	7.43	1500	2.67	15.86	2100	.47	26.64
0400	.34	4.75	1000	.78	8.21	1600	5.28	21.15	2200	.44	27.08
0500	.35	5.10	1100	.87	9.08	1700	2.30	23.44	2300	.41	27.49
0600	.37	5.48	1200	.98	10.06	1800	1.66	25.11	2400	.39	27.88
6-HR TOTAL	1.98		4.58			15.04			2.78		

DAY 3											
TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		INCR	TOTAL
0100	.26	28.14	0700	.18	29.60	1300	.14	30.61	1900	.11	31.40
0200	.26	28.39	0800	.18	29.77	1400	.14	30.75	2000	.11	31.51
0300	.26	28.65	0900	.18	29.95	1500	.14	30.88	2100	.11	31.62
0400	.26	28.91	1000	.18	30.13	1600	.14	31.02	2200	.11	31.73
0500	.26	29.16	1100	.18	30.30	1700	.14	31.16	2300	.11	31.84
0600	.26	29.42	1200	.18	30.48	1800	.14	31.29	2400	.11	31.95
6-HR TOTAL	1.54		1.06			.81			.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

STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN2
 STORM CENTER COORDINATES, X = 175., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
 150.0, Y = 411.0

		STORM CENTER COORDINATES: X = 150.0, Y = 41.0												
ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR	INCREMENTS	OF PMS	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.	0.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
H 700.	0.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
I 1000.	5.	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		10.79	3.75	2.36	1.68	1.30	1.06	.90	.78	.69	.61	.56	.51	

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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	.49	.98	.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	.44	.88	.51	.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	.41	.81	.47	.73	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	.38	.76	.43	.67	.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	.35	.70	.40	.61	.81	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	.33	.66	.38	.57	.74	.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	.31	.62	.36	.53	.70	.93	.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	.30	.60	.35	.50	.68	.90	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.30	.60	.35	.50	.68	.90	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

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	PR 3. 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	.23	.47	.70	1.38	2.59	4.68	6.59	10.79	14.53	16.89	18.57	19.87	20.94	21.84	22.61	23.30	23.92	24.47	24.98

PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1											
TIMEPRECIPITATIONTOTAL			TIMEPRECIPITATIONTOTAL			TIMEPRECIPITATIONTOTAL			TIMEPRECIPITATIONTOTAL		
0100	.08	.08	0700	.10	.61	1300	.13	1.25	1900	.18	2.08
0200	.08	.17	0800	.10	.71	1400	.13	1.38	2000	.18	2.26
0300	.08	.25	0900	.10	.81	1500	.13	1.51	2100	.18	2.43
0400	.08	.34	1000	.10	.92	1600	.13	1.64	2200	.18	2.61
0500	.08	.42	1100	.10	1.02	1700	.13	1.77	2300	.18	2.79
0600	.08	.51	1200	.10	1.12	1800	.13	1.90	2400	.18	2.96
6-HR TOTAL		.51			.61			.78			1.06

DAY 2																																			
TIME			PRECIPITATION			TIME			PRECIPITATION			TIME			PRECIPITATION			TIME			PRECIPITATION														
			INCR			TOTAL						INCR			TOTAL						INCR			TOTAL											
0100			.25			3.21			0700			.49			5.14			1300			1.11			9.50			1900			.46			19.64		
0200			.26			3.47			0800			.52			5.66			1400			1.61			11.11			2000			.43			20.07		
0300			.27			3.74			0900			.57			6.23			1500			2.09			13.20			2100			.40			20.47		
0400			.28			4.03			1000			.63			6.87			1600			2.59			15.79			2200			.38			20.85		
0500			.30			4.33			1100			.71			7.58			1700			1.91			17.71			2300			.35			21.20		
0600			.32			4.64			1200			.81			8.39			1800			1.47			19.17			2400			.33			21.54		
6-HR TOTAL			1.68						3.75									10.79									2.36								

DAY 3	PRECIPITATION			PRECIPITATION			PRECIPITATION			PRECIPITATION		
	TIME	INCR	TOTAL	TIME	INCR	TOTAL	TIME	INCR	TOTAL	TIME	INCR	TOTAL
	0100	.22	21.75	0700	.15	22.99	1300	.11	23.85	1900	.09	24.52
	0200	.22	21.97	0800	.15	23.14	1400	.11	23.97	2000	.09	24.61
	0300	.22	22.19	0900	.15	23.29	1500	.11	24.08	2100	.09	24.70
	0400	.22	22.40	1000	.15	23.44	1600	.11	24.19	2200	.09	24.79
	0500	.22	22.62	1100	.15	23.59	1700	.11	24.31	2300	.09	24.89
	0600	.22	22.84	1200	.15	23.74	1800	.11	24.42	2400	.09	24.98
	6-HR TOTAL	1.30			.90			.69			.56	

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	365.5	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

STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN1
ORIENTATION = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 150.0, Y = 411.0

AREA WITHIN BASIN (SQ. MI.)		STORM CENTER COORDINATES, X = 150.0, Y = 411.0												
ISOHYET AREA (SQ. MI.)		1	2	3	DEPTHS (INCHES)	4	5	FOR 6-HOUR INCREMENTS OF PMS	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	.57
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.57
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.57
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.57
E 175.	0.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.57
F 300.	0.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.57
G 450.	0.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.57
H 700.	8.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.57
I 1000.	35.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52	.48
J 1500.	64.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43	.40
K 2150.	64.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35	.33
L 3000.	64.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29	.27
M 4500.	64.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22	.21
N 6500.	64.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15	.14
O 10000.	64.	.69	.34	.37	.26	.20	.17	.14	.12	.11	.10	.08	.07	.06
P 15000.	64.	.00	.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	.00
R 40000.	64.	.00	.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	.00
AVERAGE DEPTH		11.40	3.88	2.43	1.73	1.34	1.09	.92	.80	.71	.63	.57	.52	.48

PR 3.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	.29	.57	.86	1.67	3.05	5.21	7.16	11.40	15.28	17.71	19.43	20.77	21.87	22.79	23.59	24.30	24.93	25.50	26.02

1

PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.09	.09	0700	.11	.63	1300	.13	1.29	1900	.18	2.14
0200	.09	.17	0800	.11	.73	1400	.13	1.42	2000	.18	2.32
0300	.09	.26	0900	.11	.84	1500	.13	1.55	2100	.18	2.50
0400	.09	.35	1000	.11	.94	1600	.13	1.69	2200	.18	2.68
0500	.09	.43	1100	.11	1.05	1700	.13	1.82	2300	.18	2.87
0600	.09	.52	1200	.11	1.15	1800	.13	1.96	2400	.18	3.05
6-HR TOTAL	.52		.63			.80			1.09		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	3.30	0700	.51	5.28	1300	1.13	9.78	1900	.48	20.53
0200	.27	3.57	0800	.54	5.83	1400	1.63	11.42	2000	.44	20.98
0300	.28	3.85	0900	.59	6.42	1500	2.16	13.58	2100	.41	21.39
0400	.29	4.14	1000	.66	7.08	1600	3.05	16.62	2200	.39	21.78
0500	.31	4.45	1100	.74	7.82	1700	1.95	18.57	2300	.36	22.14
0600	.33	4.77	1200	.83	8.65	1800	1.48	20.06	2400	.34	22.48
6-HR TOTAL	1.73		3.88			11.40			2.43		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.22	22.71	0700	.15	23.97	1300	.12	24.86	1900	.10	25.55
0200	.22	22.93	0800	.15	24.13	1400	.12	24.98	2000	.10	25.64
0300	.22	23.15	0900	.15	24.28	1500	.12	25.10	2100	.10	25.74
0400	.22	23.37	1000	.15	24.44	1600	.12	25.22	2200	.10	25.83
0500	.22	23.60	1100	.15	24.59	1700	.12	25.33	2300	.10	25.93
0600	.22	23.82	1200	.15	24.75	1800	.12	25.45	2400	.10	26.02
6-HR TOTAL	1.34		.92			.71			.57		

1

1

PR 4.OUT

U.S. ARMY CORPS OF ENGINEERS

THE HYDROLOGIC ENGINEERING CENTER

609 SECOND STREET

DAVIS, CALIFORNIA 95616

(916) 551-1748 OR (FTS) 460-1748

PROBABLE MAXIMUM STORM (HMR52)

NOVEMBER 1982

REVISED APRIL 91

RUN DATE 08/10/2009

TIME 08:55:06

1

HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

LINE

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

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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 PR4

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

198 420

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 85.17

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 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

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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

127.7 120.25 124.31 115.41 125.34 135.17 153.31 156.62 153.56 154.76

56

BY

154.76 160.46 167.45 177.77 188.09 192.59 200.58 211.24 244 264.84

57

BY

331.2 425.42

58

BY

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

200.58 192.59 188.09 177.77 167.45 160.46 154.76 153.56 156.62

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 4.OUT
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 08/10/2009 TIME 08:55:07
*****
*
* 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 PR4
 CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	6-HR	12-HR	DURATION 24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
25.	22.20	26.80	32.00	36.00	39.60
50.	15.90	20.70	25.80	30.00	33.40
100.	9.30	13.00	17.80	22.00	25.00
20000.	7.10	10.30	14.40	18.50	21.00
	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 4.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	ORIENTATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS										SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS	
10.	170.	9.02	1.66	.92	.64	.49	.40	.33	.29	.25	.23	.21	.19
25.	170.	11.78	2.46	1.42	.99	.76	.62	.52	.45	.40	.36	.32	.29
50.	170.	13.87	3.05	1.79	1.26	.97	.79	.67	.58	.51	.46	.41	.38
100.	170.	15.54	3.56	2.14	1.51	1.17	.96	.81	.70	.62	.55	.50	.46
175.	170.	16.83	3.92	2.40	1.71	1.33	1.09	.92	.80	.70	.63	.57	.52
300.	170.	17.71	4.34	2.63	1.87	1.46	1.19	1.01	.87	.77	.69	.62	.57
450.	170.	18.04	4.62	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
700.	170.	17.70	4.83	2.82	1.99	1.54	1.26	1.07	.92	.82	.73	.66	.60
1000.	170.	17.19	4.95	2.83	1.99	1.54	1.26	1.06	.92	.81	.73	.66	.60
1500.	170.	16.52	4.76	2.75	1.94	1.51	1.24	1.05	.91	.80	.72	.65	.59
2150.	170.	15.86	4.56	2.67	1.90	1.48	1.22	1.03	.90	.79	.71	.64	.59
3000.	170.	15.14	4.40	2.59	1.85	1.45	1.20	1.02	.88	.78	.70	.64	.58
4500.	170.	14.28	4.22	2.52	1.81	1.43	1.18	1.01	.88	.78	.70	.64	.58
6500.	170.	13.66	3.98	2.39	1.73	1.37	1.14	.97	.85	.75	.68	.61	.56
10000.	170.	12.77	3.67	2.22	1.61	1.28	1.07	.92	.80	.71	.64	.58	.53
15000.	170.	11.93	3.44	2.07	1.50	1.20	1.01	.86	.75	.67	.60	.55	.50
20000.	170.	11.12	3.26	1.97	1.43	1.15	.96	.82	.72	.64	.58	.53	.48

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIENTATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS										SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS	
450.	140.	16.83	4.39	2.63	1.87	1.45	1.19	1.00	.87	.77	.69	.62	.57
450.	150.	17.38	4.50	2.69	1.91	1.48	1.21	1.03	.89	.78	.70	.63	.58
450.	160.	17.84	4.58	2.73	1.94	1.51	1.23	1.04	.90	.80	.71	.65	.59
450.	170.	18.04	4.62	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
450.	180.	17.95	4.60	2.74	1.95	1.51	1.24	1.05	.91	.80	.72	.65	.59
450.	190.	17.56	4.53	2.70	1.92	1.49	1.22	1.03	.89	.79	.71	.64	.58
450.	200.	17.05	4.43	2.65	1.88	1.46	1.19	1.01	.88	.77	.69	.63	.57
450.	210.	16.47	4.32	2.59	1.84	1.43	1.17	.99	.86	.75	.68	.61	.56
450.	220.	15.94	4.21	2.53	1.79	1.39	1.14	.96	.84	.74	.66	.60	.55
450.	230.	15.48	4.12	2.48	1.75	1.37	1.12	.95	.82	.72	.65	.58	.53
450.	240.	15.11	4.05	2.44	1.73	1.35	1.10	.93	.81	.71	.64	.58	.53
450.	250.	14.87	4.00	2.42	1.71	1.33	1.09	.92	.80	.70	.63	.57	.52
450.	260.	14.74	3.98	2.40	1.70	1.32	1.08	.92	.79	.70	.63	.57	.52
450.	270.	14.72	3.97	2.40	1.70	1.32	1.08	.92	.79	.70	.63	.57	.52
450.	280.	14.85	4.00	2.42	1.71	1.33	1.09	.92	.80	.70	.63	.57	.52
450.	290.	15.18	4.07	2.45	1.74	1.35	1.11	.94	.81	.72	.64	.58	.53
450.	300.	15.64	4.16	2.51	1.78	1.38	1.13	.96	.83	.73	.65	.59	.54
450.	310.	16.21	4.27	2.57	1.82	1.42	1.16	.98	.85	.75	.67	.61	.55
450.	165.	17.99	4.61	2.75	1.95	1.52	1.24	1.05	.91	.80	.72	.65	.59
450.	175.	18.03	4.62	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59

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

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	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.	295.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
G 450.	402.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
H 700.	494.	11.93	3.70	2.36	1.68	1.30	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	2.60	1.69	1.20	.93	.76	.64	.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.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	509.	.57	.21	.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		18.04	4.62	2.75	1.96	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

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PR 4.OUT																										
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	.71	1.42	2.11	4.07	6.85	9.99	12.67	18.04	22.66	25.42	27.37	28.89	30.14	31.19	32.10	32.90	33.62	34.27	34.87							

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PROBABLE MAXIMUM STORM FOR CPNPP

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	1.47	1900	.21	2.43
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	3.05
0500	.10	.50	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	3.47
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	3.76	0700	.59	6.02	1300	1.39	11.44	1900	.55	28.64
0200	.30	4.06	0800	.64	6.65	1400	2.11	13.55	2000	.50	29.14
0300	.31	4.37	0900	.70	7.36	1500	3.14	16.69	2100	.47	29.61
0400	.33	4.70	1000	.79	8.14	1600	6.85	23.54	2200	.43	30.04
0500	.35	5.05	1100	.89	9.03	1700	2.68	26.22	2300	.41	30.45
0600	.37	5.42	1200	1.01	10.04	1800	1.87	28.09	2400	.39	30.84
6-HR TOTAL	1.96		4.62			18.04			2.75		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	31.09	0700	.18	32.54	1300	.13	33.55	1900	.11	34.32
0200	.25	31.35	0800	.18	32.71	1400	.13	33.68	2000	.11	34.43
0300	.25	31.60	0900	.18	32.89	1500	.13	33.81	2100	.11	34.54
0400	.25	31.85	1000	.18	33.06	1600	.13	33.95	2200	.11	34.65
0500	.25	32.11	1100	.18	33.24	1700	.13	34.08	2300	.11	34.76
0600	.25	32.36	1200	.18	33.41	1800	.13	34.22	2400	.11	34.87
6-HR TOTAL	1.52		1.05			.80			.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

1

PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 450. SQ. MI., ORIENTATION = 170., PREFERRED ORIENTATION = 215.