

PROBABLE MAXIMUM STORM FOR BASIN2

DAY 3															
TIME	PRECIPITATION			TIME	PRECIPITATION			TIME	PRECIPITATION			TIME	PRECIPITATION		
	INCR	TOTAL			INCR	TOTAL			INCR	TOTAL			INCR	TOTAL	
0100	.25	30.81		0700	.18	32.25		1300	.13	33.26		1900	.11	34.04	
0200	.25	31.06		0800	.18	32.43		1400	.13	33.39		2000	.11	34.14	
0300	.25	31.31		0900	.18	32.60		1500	.13	33.53		2100	.11	34.25	
0400	.25	31.57		1000	.18	32.78		1600	.13	33.66		2200	.11	34.36	
0500	.25	31.82		1100	.18	32.95		1700	.13	33.79		2300	.11	34.47	
0600	.25	32.08		1200	.18	33.13		1800	.13	33.93		2400	.11	34.58	
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

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.	10.	23.60	5.41	2.88	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
B 25.	23.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
C 50.	36.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
D 100.	49.	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	.18	.17	.15	.13
O 10000.	64.	.67	.33	.26	.23	.20	.16	.14	.12	.10	.09	.08	.07
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		21.09	5.10	2.82	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59

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	.97	1.42	2.71	4.51	6.71	8.62	12.62	16.65	18.32	19.61	20.67	21.56	22.33	23.01	23.62	24.18	24.68	
J	.44	.91	1.33	2.51	4.15	6.25	8.09	11.88	15.33	16.81	17.97	18.91	19.72	20.41	21.01	21.56	22.07	22.54	
K	.40	.84	1.23	2.31	3.81	5.71	7.35	10.62	13.58	14.86	15.81	16.61	17.29	17.87	18.37	18.84	19.28	19.70	
L	.36	.77	1.12	2.09	3.41	5.11	6.63	9.55	12.03	13.08	13.88	14.51	15.01	15.41	15.79	16.17	16.54	16.90	
M	.32	.70	1.03	1.87	3.06	4.55	5.93	8.45	10.52	11.38	12.03	12.58	13.06	13.47	13.84	14.19	14.54	14.88	
N	.28	.62	.92	1.65	2.69	4.01	5.25	7.33	9.03	9.72	10.27	10.75	11.17	11.54	11.88	12.21	12.53	12.85	
O	.24	.54	.81	1.45	2.37	3.55	4.67	6.45	7.85	8.41	8.88	9.29	9.65	9.97	10.29	10.60	10.91	11.21	
P	.20	.46	.69	1.25	2.05	3.11	4.11	5.61	6.71	7.12	7.48	7.79	8.06	8.31	8.55	8.78	9.00	9.22	
Q	.16	.36	.54	1.00	1.61	2.41	3.21	4.41	5.31	5.62	5.88	6.10	6.29	6.46	6.61	6.76	6.90	7.04	
R	.12	.27	.40	.75	1.17	1.77	2.37	3.31	3.91	4.12	4.28	4.41	4.52	4.62	4.71	4.79	4.87	4.95	
S	.08	.18	.27	.50	.78	1.15	1.52	2.15	2.55	2.71	2.84	2.94	3.03	3.11	3.18	3.25	3.31	3.37	
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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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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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 PRI
CALCULATE STORM OVER ENTIRE AREA

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

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

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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 1.0UT

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

BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENTA- TION													
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

FIXED STORM AREA SIZE AND VARYING ORIENTATION														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENTA- TION	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	.63	.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	4	5	6	7	8	9	10	11	12
A 10.	5.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	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

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

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	PR 1.OUT																																
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29														
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08														
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50														
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40														
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29														
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54														
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94														
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59														
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00														
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00														
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00														
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00														
AVERAGE	.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.

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.	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.	354.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
J 1500.	411.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50	
K 2150.	411.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40	
L 3000.	411.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33	
M 4500.	411.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26	
N 6500.	411.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19	
O 10000.	411.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11	
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE DEPTH		15.42	4.79	2.81	1.98	1.53	1.25	1.06	.92	.81	.72	.65	.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	.52	1.04	1.55	2.98	5.13	7.90	10.32	15.42	20.21	23.02	25.00	26.54	27.79	28.85	29.76	30.57	31.30	31.95	32.55
1																			

PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.47	1900	.21	2.45
0200	.10	.20	0800	.12	.84	1400	.15	1.63	2000	.21	2.65
0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.86
0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.07
0500	.10	.50	1100	.12	1.20	1700	.15	2.08	2300	.21	3.28
0600	.10	.60	1200	.12	1.32	1800	.15	2.24	2400	.21	3.49
6-HR TOTAL	.60		.72			.92			1.25		
DAY 2											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.78	0700	.61	6.08	1300	1.36	11.62	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 INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
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 6	INCREMENTS 7	OF 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.	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
1																				
PROBABLE MAXIMUM STORM FOR BASIN3																				
DAY 1	TIME	PRECIPITATION INCR	TOTAL	DAY 2	TIME	PRECIPITATION INCR	TOTAL	DAY 3	TIME	PRECIPITATION INCR	TOTAL	DAY 4	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		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		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		TIME	PRECIPITATION		TIME	PRECIPITATION		TIME	PRECIPITATION	
	INCR	TOTAL		INCR	TOTAL		INCR	TOTAL		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	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.	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

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DAY 1

6-HR TOTAL

DAY 2

6-HR TOTAL

DAY 3

6-HR TOTAL

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

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PR 1.0UT

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	.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	

1

PR 2.OUT

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*
*   PROBABLE MAXIMUM STORM (HMR52)
*   NOVEMBER 1982
*   REVISED APRIL 91
*
*   RUN DATE 06/25/2008   TIME 10:10:36
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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       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 PALUXY RIVER BASIN AT PRZ
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

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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

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										

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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	*****
*****	*****

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

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	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

1

STORM AREA	6-HR	12-HR	24-HR	48-HR	72-HR	INCREMENTS	FOR 6-HOUR	INCREMENTS	FOR 6-HOUR	INCREMENTS	FOR 6-HOUR	INCREMENTS	FOR 6-HOUR	INCREMENTS	FOR 6-HOUR	INCREMENTS	FOR 6-HOUR	INCREMENTS	FOR 6-HOUR	INCREMENTS
10.	29.67	5.40	2.99	2.08	1.59	1.29	1.09	.94	.83	.74	.67	.61	.55	.50	.45	.40	.35	.30	.25	.20
25.	27.92	5.22	2.95	2.06	1.59	1.29	1.09	.94	.83	.74	.67	.61	.55	.50	.45	.40	.35	.30	.25	.20
50.	26.45	5.09	2.91	2.05	1.58	1.29	1.09	.94	.83	.74	.67	.61	.55	.50	.45	.40	.35	.30	.25	.20
100.	24.29	4.91	2.86	2.02	1.57	1.28	1.08	.94	.82	.74	.67	.61	.55	.50	.45	.40	.35	.30	.25	.20
175.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61	.55	.50	.45	.40	.35	.30	.25	.20
300.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	.55	.50	.45	.40	.35	.30	.25	.20
450.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61	.55	.50	.45	.40	.35	.30	.25	.20
700.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.60	.54	.48	.42	.36	.30	.24	.18	.12
1000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.54	.48	.42	.36	.30	.24	.18	.12
1500.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60	.54	.48	.42	.36	.30	.24	.18	.12
2150.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60	.54	.48	.42	.36	.30	.24	.18	.12
3000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60	.54	.48	.42	.36	.30	.24	.18	.12
4500.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60	.54	.48	.42	.36	.30	.24	.18	.12
6500.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58	.52	.46	.40	.34	.28	.22	.16	.10
10000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55	.50	.45	.40	.35	.30	.25	.20	.15
15000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52	.47	.42	.37	.32	.27	.22	.17	.12
20000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50	.45	.40	.35	.30	.25	.20	.15	.10

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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 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

BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIEN- TATION													
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

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

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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.	185.	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 2.0UT																													
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	.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

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PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 700. SQ. MI., ORIENTATION = 140., PREFERRED ORIENTATION = 215.
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STORM CENTER COORDINATES, $x = \frac{PR \ 2. \ OUT}{100.0}, \ y = 402.0$													
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS 4	(INCHES) 5	FOR 6-HOUR 6	INCREMENTS 7	OF PMS 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.	72.	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.	186.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
G 450.	244.	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.	332.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68	.61	.55	.50
J 1500.	380.	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		15.53	4.41	2.61	1.84	1.43	1.17	.99	.86	.75	.67	.61	.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	.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	.36	.72	.33	.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	.33	.66	.30	.40	.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	.30	.60	.28	.37	.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	.27	.54	.26	.34	.67	.85	1.37	2.10	2.61	2.91	3.15	3.35	3.51	3.65	3.77	3.88	3.97	4.05	
P	.24	.48	.24	.31	.61	.77	1.10	1.46	1.71	1.91	2.07	2.21	2.33	2.43	2.53	2.61	2.69		
Q	.21	.42	.22	.28	.54	.68	.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
R	.19	.38	.21	.25	.49	.62	.83	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	
S	.17	.34	.20	.23	.44	.56	.75	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	
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	30.26	30.87	31.43
1																			

PROBABLE MAXIMUM STORM FOR BASIN4											
DAY 1			DAY 2			DAY 3			DAY 4		
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			DAY 3			DAY 4			DAY 5		
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			DAY 4			DAY 5			DAY 6		
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	

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										
STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN3, 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
B 25.	0.	22.25	5.20	2.84	1.96	1.52	1.24	1.05	.91	.80
C 50.	0.	20.90	5.05	2.81	1.96	1.52	1.24	1.05	.91	.80
D 100.	0.	19.38	4.91	2.79	1.96	1.52	1.24	1.05	.91	.80
E 175.	0.	18.03	4.77	2.77	1.96	1.52	1.24	1.05	.91	.80
F 300.	0.	16.52	4.68	2.76	1.96	1.52	1.24	1.05	.91	.80
G 450.	7.	15.51	4.58	2.75	1.96	1.52	1.24	1.05	.91	.80
H 700.	20.	14.16	4.49	2.74	1.96	1.52	1.24	1.05	.91	.80
I 1000.	24.	10.62	3.68	2.35	1.67	1.29	1.06	.89	.77	.68
J 1500.	24.	8.09	3.09	1.95	1.38	1.07	.88	.74	.64	.57
K 2150.	24.	6.07	2.55	1.62	1.15	.89	.73	.61	.53	.47
L 3000.	24.	4.55	2.08	1.30	.92	.71	.58	.49	.43	.38
M 4500.	24.	3.03	1.51	1.02	.73	.56	.46	.39	.34	.30
N 6500.	24.	1.69	.92	.70	.50	.39	.32	.27	.23	.20
O 10000.	24.	.67	.43	.36	.25	.20	.16	.14	.12	.10
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.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

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	15.54	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	2.71	4.51	6.78	8.81	12.62	16.43	18.65	20.61	22.07	23.29	24.33	25.24	26.04
J	.44	.88	1.28	2.41	4.05	6.15	8.09	11.18	13.13	14.51	15.59	16.46	17.20	17.84	18.41	18.92
K	.40	.81	1.17	2.23	3.65	5.41	7.07	9.62	11.38	12.27	13.00	13.61	14.14	14.61	15.03	15.41
L	.36	.74	1.08	2.03	3.28	4.84	6.28	8.55	10.23	11.38	12.27	13.00	13.61	14.14	14.61	15.03
M	.32	.67	.96	1.81	2.91	4.37	5.63	7.53	9.56	10.15	10.64	11.07	11.45	11.78	12.09	12.37
N	.28	.59	.83	1.56	2.49	3.74	4.84	6.43	8.15	8.85	9.56	10.15	10.64	11.07	11.45	11.78
O	.24	.51	.71	1.33	2.13	3.25	4.17	5.47	6.79	7.32	7.70	8.04	8.34	8.60	8.84	9.06
P	.20	.44	.60	1.11	1.79	2.61	3.31	4.31	5.31	5.71	6.04	6.32	6.56	6.76	6.93	7.09
Q	.16	.37	.50	.93	1.41	2.03	2.57	3.31	4.05	4.41	4.64	4.82	4.97	5.09	5.18	5.26
R	.12	.28	.37	.71	1.08	1.56	1.94	2.51	3.00	3.28	3.49	3.64	3.76	3.85	3.92	3.98
S	.08	.19	.25	.50	.74	1.04	1.29	1.67	2.00	2.16	2.27	2.35	2.41	2.46	2.50	2.53
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

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	.70	1300	.15	1.44	1900	.20	2.40
0200	.10	.20	0800	.12	.82	1400	.15	1.59	2000	.20	2.60
0300	.10	.29	0900	.12	.94	1500	.15	1.74	2100	.20	2.81
0400	.10	.39	1000	.12	1.06	1600	.15	1.89	2200	.20	3.01
0500	.10	.49	1100	.12	1.18	1700	.15	2.04	2300	.20	3.22
0600	.10	.59	1200	.12	1.29	1800	.15	2.19	2400	.20	3.42
6-HR TOTAL	.59			.71			.90			1.23	

							PR 2.OUT					
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	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	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, ORIENTATION = 140.,
 STORM CENTER COORDINATES, X = 100.0, Y = 402.0, PREFERRED ORIENTATION = 215.

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.	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	.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	7.23	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	.31	.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	.62	.29	.61	.87	1.57	2.57	3.27	3.67	4.00	4.26	4.46	4.61	4.75	4.88	5.00	5.11	5.21	
P	.30	.60	.28	.59	.84	1.52	2.52	3.22	3.62	3.95	4.21	4.41	4.56	4.69	4.81	4.92	5.02	5.11	
Q	.29	.58	.27	.57	.82	1.50	2.50	3.20	3.60	3.90	4.16	4.36	4.51	4.64	4.76	4.87	4.97	5.06	

Page 7

PR 2. 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 .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

1

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	.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	

1

SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

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

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.	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.	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.	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		13.78	4.31	2.63	1.88	1.46	1.19	1.01	.87	.77	.69	.62	.57

1

PR 2.0UT

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	.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	.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	.81	.47	.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	.44	.71	.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	.70	.41	.66	.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	.38	.61	.53	.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	5.87
O	.31	.62	.36	.57	.49	.88	1.37	2.11	2.61	3.00	3.31	3.57	3.79	4.00	4.19	4.37	4.53	4.69	4.84
P	.30	.60	.35	.54	.46	.84	1.26	1.94	2.44	2.83	3.14	3.39	3.60	3.78	3.95	4.11	4.26	4.41	4.56
Q	.29	.58	.34	.52	.44	.82	1.22	1.88	2.38	2.77	3.08	3.33	3.54	3.72	3.89	4.05	4.20	4.35	4.50
R	.28	.56	.33	.50	.42	.80	1.20	1.84	2.34	2.73	3.04	3.29	3.50	3.68	3.85	4.01	4.16	4.31	4.46
S	.27	.54	.32	.49	.40	.78	1.18	1.82	2.32	2.71	3.02	3.27	3.48	3.66	3.83	3.99	4.14	4.29	4.44
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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1*****
*
* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
*
* RUN DATE 06/25/2008 TIME 10:11:12
*
*****
PR 3.OUT
*****
*
* 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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1
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

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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 PALUXY RIVER BASIN AT PR3

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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 150 411
36 ST 60 0.308 0 1
37 PU ON

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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 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 260.06 275.37 281.37 285.03 291.7 296.69 298.06 288.52 305.69
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

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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

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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 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 322.02 336.16      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	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
1500.	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 3.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

WATERS STORY AREA SIZE AND PEAK ORIENTATION														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENTA- TION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 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

FIXED STORM AREA SIZE AND VARYING ORIENTATION														SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS
STORM AREA	ORIENTA- TION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 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	.90	.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

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.	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	664.0	593.1	588.7	567.8
X	81.5	85.2	76.9	85.9	75.6	77.8	82.6	84.8	70.6	66.1
Y	554.6	547.9	530.6	505.2	501.2	486.1	484.7	480.1	471.4	460.5
X	56.8	57.5	49.5	51.0	40.8	40.0	54.8	61.6	65.8	48.0
Y	459.9	445.4	431.3	424.0	416.9	406.8	378.1	377.5	347.0	304.2
X	62.3	35.0	36.6	46.9	55.1	63.7	73.8	72.7	84.0	92.2
Y	290.4	242.8	238.1	240.0	236.2	238.7	233.3	225.3	226.6	224.0
X	97.8	121.9	126.6	133.1	136.4	146.0	138.6	143.2	127.2	137.7
Y	224.9	215.4	225.3	225.3	213.7	213.2	195.4	187.2	150.2	138.8
X	139.1	151.0	157.4	164.1	200.1	219.9	230.6	240.8	246.7	251.9
Y	127.7	120.3	124.3	115.4	125.3	135.2	153.3	156.6	153.6	154.8
X	260.1	275.4	281.4	281.4	285.0	291.7	296.7	298.1	288.5	305.7
Y	154.8	160.5	167.4	177.8	188.1	192.6	200.6	211.2	244.0	264.8
X	294.8	330.1								
Y	331.2	425.4								

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
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PR 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	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	
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	.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
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PROBABLE MAXIMUM STORM FOR BASIN4												
DAY 1												
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	
0100	.10	.10	0700	.12	.72	1300	.15	1.49	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	DEPTHS (INCHES) 4	5	FOR 6-HOUR 6	INCREMENTS OF 7	PMS 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

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

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

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	1.48	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 INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION 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 INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION 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

PROBABLE MAXIMUM STORM FOR BASIN2
 STORM AREA = 700. SQ. MI., ORIENTATION = 175.,
 STORM CENTER COORDINATES, X = 150.0, Y = 411.0, 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.	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	.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	.41	.82	.42	.83	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	.41	.82	.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	.38	.76	.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	.36	.72	.74	.96	.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	.33	.66	.68	.84	.84	1.32	2.07	2.59	2.99	3.29	3.54	3.75	3.92	4.08	4.24	4.38	4.51
P	.29	.58	.31	.62	.64	.78	.78	1.20	1.80	2.25	2.63	2.89	3.11	3.29	3.44	3.58	3.71	3.83	3.94
Q	.27	.54	.29	.58	.60	.72	.72	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75	2.83
	.25	.50	.27	.54	.56	.68	.68	1.00	1.30	1.56	1.76	1.91	2.03	2.13	2.22	2.29	2.36	2.42	2.47
	.23	.46	.25	.50	.52	.64	.64	.96	1.20	1.44	1.60	1.73	1.83	1.91	1.98	2.04	2.09	2.14	2.18
	.21	.42	.23	.46	.48	.59	.59	.88	1.08	1.28	1.44	1.56	1.65	1.72	1.78	1.83	1.87	1.91	1.94
	.20	.40	.22	.44	.46	.57	.57	.84	1.04	1.24	1.39	1.50	1.59	1.66	1.71	1.75	1.79	1.82	1.85
	.19	.38	.21	.42	.44	.55	.55	.82	1.02	1.22	1.37	1.48	1.56	1.63	1.68	1.72	1.75	1.78	1.81
	.18	.36	.20	.40	.42	.53	.53	.80	1.00	1.20	1.35	1.46	1.54	1.61	1.66	1.70	1.73	1.76	1.79
	.17	.34	.19	.38	.40	.51	.51	.78	.98	1.18	1.33	1.44	1.52	1.59	1.64	1.68	1.71	1.74	1.77
	.16	.32	.18	.36	.38	.49	.49	.76	.96	1.16	1.31	1.42	1.50	1.57	1.62	1.66	1.69	1.72	1.75
	.15	.30	.17	.34	.36	.47	.47	.74	.94	1.14	1.29	1.40	1.48	1.55	1.60	1.64	1.67	1.70	1.73
	.14	.28	.16	.32	.34	.45	.45	.72	.92	1.12	1.27	1.38	1.46	1.53	1.58	1.62	1.65	1.68	1.71
	.13	.26	.15	.30	.32	.43	.43	.70	.90	1.10	1.25	1.36	1.44	1.51	1.56	1.60	1.63	1.66	1.69
	.12	.24	.14	.28	.30	.41	.41	.68	.88	1.08	1.23	1.34	1.42	1.49	1.54	1.58	1.61	1.64	1.67
	.11	.22	.13	.26	.28	.39	.39	.66	.86	1.06	1.21	1.32	1.40	1.47	1.52	1.56	1.59	1.62	1.65
	.10	.20	.12	.24	.26	.37	.37	.64	.84	1.04	1.19	1.30	1.38	1.45	1.50	1.54	1.57	1.60	1.63
	.09	.18	.11	.22	.24	.35	.35	.62	.82	1.02	1.17	1.28	1.36	1.43	1.48	1.52	1.55	1.58	1.61
	.08	.16	.10	.20	.22	.33	.33	.60	.80	1.00	1.15	1.26	1.34	1.41	1.46	1.50	1.53	1.56	1.59
	.07	.14	.09	.18	.20	.31	.31	.58	.78	.98	1.13	1.24	1.32	1.39	1.44	1.48	1.51	1.54	1.57
	.06	.12	.08	.16	.18	.29	.29	.56	.76	.96	1.11	1.22	1.30	1.37	1.42	1.46	1.49	1.52	1.55
	.05	.10	.07	.14	.16	.27	.27	.54	.74	.94	1.09	1.20	1.28	1.35	1.40	1.44	1.47	1.50	1.53
	.04	.08	.06	.12	.14	.25	.25	.52	.72	.92	1.07	1.18	1.26	1.33	1.38	1.42	1.45	1.48	1.51
	.03	.06	.04	.10	.12	.23	.23	.50	.70	.90	1.05	1.16	1.24	1.31	1.36	1.40	1.43	1.46	1.49
	.02	.04	.03	.07	.08	.16	.16	.48	.68	.88	1.03	1.14	1.22	1.29	1.34	1.38	1.41	1.44	1.47
	.01	.02	.01	.03	.04	.07	.07	.46	.66	.86	1.01	1.12	1.20	1.27	1.32	1.36	1.39	1.42	1.45
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

R S	PR 3.OUT																		
	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .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

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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	.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 INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION 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

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION 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	

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

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

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.	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.	8.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	35.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	64.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	64.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	64.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	64.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	64.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	64.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		11.40	3.88	2.43	1.73	1.34	1.09	.92	.80	.71	.63	.57	.52

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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

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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	.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	

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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
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* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
* RUN DATE 08/10/2009 TIME 08:55:07
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*
* U.S. ARMY CORPS OF ENGINEERS
* THE HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748 OR (FTS) 460-1748
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
 ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
 STORM CENTER WITHIN PALUXY RIVER BASIN AT PR4
 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 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

STORM AREA	ORIEN- TATION	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	11.60
25.	170.	11.78	2.46	1.42	.99	.76	.62	.52	.45	.40	.36	.32	.29	15.66
50.	170.	13.87	3.05	1.79	1.26	.97	.79	.67	.58	.51	.46	.41	.38	18.71
100.	170.	15.54	3.56	2.14	1.51	1.17	.96	.81	.70	.62	.55	.50	.46	21.23
175.	170.	16.83	3.92	2.40	1.71	1.33	1.09	.92	.80	.70	.63	.57	.52	23.14
300.	170.	17.71	4.34	2.63	1.87	1.46	1.19	1.01	.87	.77	.69	.62	.57	24.68
450.	170.	18.04	4.62	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	25.42
700.	170.	17.70	4.83	2.82	1.99	1.54	1.26	1.07	.92	.82	.73	.66	.60	25.34
1000.	170.	17.19	4.95	2.83	1.99	1.54	1.26	1.06	.92	.81	.73	.66	.60	24.97
1500.	170.	16.52	4.76	2.75	1.94	1.51	1.24	1.05	.91	.80	.72	.65	.59	24.03
2150.	170.	15.86	4.56	2.67	1.90	1.48	1.22	1.03	.90	.79	.71	.64	.59	23.09
3000.	170.	15.14	4.40	2.59	1.85	1.45	1.20	1.02	.88	.78	.70	.64	.58	22.13
4500.	170.	14.28	4.22	2.52	1.81	1.43	1.18	1.01	.88	.78	.70	.64	.58	21.01
6500.	170.	13.66	3.98	2.39	1.73	1.37	1.14	.97	.85	.75	.68	.61	.56	20.03
10000.	170.	12.77	3.67	2.22	1.61	1.28	1.07	.92	.80	.71	.64	.58	.53	18.66
15000.	170.	11.93	3.44	2.07	1.50	1.20	1.01	.86	.75	.67	.60	.55	.50	17.43
20000.	170.	11.12	3.26	1.97	1.43	1.15	.96	.82	.72	.64	.58	.53	.48	16.34

FIXED STORM AREA SIZE AND VARYING ORIENTATION

STORM AREA	ORIEN- TATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS										SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS		
450.	140.	16.83	4.39	2.63	1.87	1.45	1.19	1.00	.87	.77	.69	.62	.57	23.85
450.	150.	17.38	4.50	2.69	1.91	1.48	1.21	1.03	.89	.78	.70	.63	.58	24.56
450.	160.	17.84	4.58	2.73	1.94	1.51	1.23	1.04	.90	.80	.71	.65	.59	25.15
450.	170.	18.04	4.62	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	25.42
450.	180.	17.95	4.60	2.74	1.95	1.51	1.24	1.05	.91	.80	.72	.65	.59	25.29
450.	190.	17.56	4.53	2.70	1.92	1.49	1.22	1.03	.89	.79	.71	.64	.58	24.79
450.	200.	17.05	4.43	2.65	1.88	1.46	1.19	1.01	.88	.77	.69	.63	.57	24.12
450.	210.	16.47	4.32	2.59	1.84	1.43	1.17	.99	.86	.75	.68	.61	.56	23.37
450.	220.	15.94	4.21	2.53	1.79	1.39	1.14	.96	.84	.74	.66	.60	.55	22.68
450.	230.	15.48	4.12	2.48	1.76	1.37	1.12	.95	.82	.72	.65	.58	.53	22.07
450.	240.	15.11	4.05	2.44	1.73	1.35	1.10	.93	.81	.71	.64	.58	.53	21.60
450.	250.	14.87	4.00	2.42	1.71	1.33	1.09	.92	.80	.70	.63	.57	.52	21.29
450.	260.	14.74	3.98	2.40	1.70	1.32	1.08	.92	.79	.70	.63	.57	.52	21.12
450.	270.	14.72	3.97	2.40	1.70	1.32	1.08	.92	.79	.70	.63	.57	.52	21.10
450.	280.	14.85	4.00	2.42	1.71	1.33	1.09	.92	.80	.70	.63	.57	.52	21.27
450.	290.	15.18	4.07	2.45	1.74	1.35	1.11	.94	.81	.72	.64	.58	.53	21.71
450.	300.	15.64	4.16	2.51	1.78	1.38	1.13	.96	.83	.73	.65	.59	.54	22.31
450.	310.	16.21	4.27	2.57	1.82	1.42	1.16	.98	.85	.75	.67	.61	.55	23.05
450.	165.	17.99	4.61	2.75	1.95	1.52	1.24	1.05	.91	.80	.72	.65	.59	25.35
450.	175.	18.03	4.62	2.75	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59	25.40

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

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	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

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

STORM CENTER COORDINATES, X = PR 4.OUT 198.0, Y = 420.0														
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.	10.	25.00	5.40	2.92	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61	
B 25.	25.	23.48	5.21	2.88	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61	
C 50.	50.	21.97	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61	
D 100.	100.	20.45	4.87	2.82	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61	
E 175.	175.	19.13	4.75	2.81	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61	
F 300.	293.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61	
G 450.	359.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61	
H 700.	405.	11.93	3.70	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51	
I 1000.	410.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43	
J 1500.	411.	7.20	2.60	1.69	1.20	.93	.76	.64	.56	.49	.44	.40	.36	
K 2150.	411.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30	
L 3000.	411.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24	
M 4500.	411.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18	
N 6500.	411.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12	
O 10000.	411.	.57	.21	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04	
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE DEPTH		18.78	4.71	2.78	1.98	1.53	1.25	1.06	.92	.81	.73	.66	.60	

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

DEPTH VS. DURATION																			
ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.02	10.04	14.32	17.96	25.00	30.39	33.31	35.31	36.87	38.14	39.21	40.14	40.96	41.70	42.36	42.97
B	.98	1.96	2.92	5.62	9.38	13.41	16.83	23.48	28.69	31.57	33.57	35.12	36.39	37.46	38.40	39.22	39.95	40.62	41.23
C	.92	1.83	2.72	5.24	8.74	12.51	15.71	21.97	26.98	29.83	31.83	33.38	34.65	35.73	36.66	37.48	38.21	38.88	39.49
D	.85	1.69	2.52	4.85	8.10	11.61	14.59	20.45	25.32	28.14	30.14	31.70	32.97	34.04	34.97	35.79	36.53	37.19	37.80
E	.79	1.57	2.34	4.51	7.54	10.82	13.60	19.13	23.88	26.69	28.68	30.24	31.51	32.58	33.51	34.34	35.07	35.74	36.34
F	.72	1.44	2.15	4.13	6.90	9.93	12.48	17.61	22.24	25.04	27.04	28.60	29.87	30.94	31.87	32.69	33.43	34.09	34.70
G	.67	1.33	1.97	3.80	6.36	9.15	11.51	16.29	20.82	23.61	25.61	27.17	28.44	29.51	30.44	31.26	32.00	32.66	33.27
H	.61	.42	.62	1.25	2.49	4.89	7.13	11.93	15.63	17.99	19.67	20.98	22.05	22.95	23.73	24.42	25.04	25.60	26.11
I	.16	.33	.49	.98	1.96	3.86	5.62	9.47	12.62	14.62	16.04	17.14	18.04	18.80	19.47	20.05	20.57	21.04	21.47
J	.12	.25	.37	.74	1.48	2.91	4.24	7.20	9.80	11.49	12.69	13.62	14.38	15.02	15.58	16.08	16.52	16.92	17.28
K	.10	.20	.29	.58	1.16	2.29	3.33	5.68	7.81	9.21	10.21	10.99	11.62	12.16	12.63	13.04	13.41	13.74	14.04
L	.07	.15	.22	.45	.89	1.74	2.54	4.36	6.10	7.21	8.00	8.61	9.11	9.54	9.91	10.23	10.52	10.78	11.02
M	.05	.10	.14	.29	.57	1.12	1.64	2.84	4.06	4.90	5.50	5.97	6.35	6.67	6.95	7.20	7.42	7.62	7.80
N	.03	.05	.08	.15	.30	.60	.87	1.51	2.18	2.72	3.10	3.39	3.63	3.84	4.02	4.17	4.31	4.44	4.55
O	.01	.02	.03	.06	.12	.23	.33	.57	.78	.98	1.12	1.23	1.32	1.39	1.46	1.52	1.57	1.61	1.66
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.76	1.51	2.25	4.33	7.26	10.51	13.27	18.78	23.49	26.27	28.25	29.78	31.04	32.10	33.02	33.83	34.56	35.22	35.82
1																			

PROBABLE MAXIMUM STORM FOR BASIN4											
DAY 1											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.10	.10	0700	.12	.72	1300	.15	1.48	1900	.21	2.46
0200	.10	.20	0800	.12	.84	1400	.15	1.63	2000	.21	2.66
0300	.10	.30	0900	.12	.96	1500	.15	1.79	2100	.21	2.87
0400	.10	.40	1000	.12	1.08	1600	.15	1.94	2200	.21	3.08
0500	.10	.50	1100	.12	1.21	1700	.15	2.09	2300	.21	3.29
0600	.10	.60	1200	.12	1.33	1800	.15	2.25	2400	.21	3.50
6-HR TOTAL	.60		.73			.92			1.25		
DAY 2											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.29	3.79	0700	.60	6.08	1300	1.43	11.61	1900	.56	29.53
0200	.30	4.10	0800	.65	6.73	1400	2.16	13.78	2000	.51	30.04
0300	.32	4.42	0900	.72	7.44	1500	3.25	17.03	2100	.47	30.51
0400	.33	4.75	1000	.80	8.25	1600	7.26	24.29	2200	.44	30.95
0500	.35	5.10	1100	.91	9.16	1700	2.76	27.05	2300	.41	31.36
0600	.37	5.48	1200	1.03	10.19	1800	1.92	28.97	2400	.39	31.75
6-HR TOTAL	1.98		4.71			18.78			2.78		
DAY 3											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	32.01	0700	.18	33.46	1300	.14	34.48	1900	.11	35.27
0200	.26	32.26	0800	.18	33.64	1400	.14	34.62	2000	.11	35.38
0300	.26	32.52	0900	.18	33.82	1500	.14	34.75	2100	.11	35.49
0400	.26	32.77	1000	.18	33.99	1600	.14	34.89	2200	.11	35.60
0500	.26	33.03	1100	.18	34.17	1700	.14	35.02	2300	.11	35.71
0600	.26	33.29	1200	.18	34.35	1800	.14	35.16	2400	.11	35.82
6-HR TOTAL	1.53		1.06			.81			.66		

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SUBBASIN3										
PR 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

PROBABLE MAXIMUM STORM FOR BASIN3												
STORM AREA = 450. SQ. MI., ORIENTATION = 170., PREFERRED ORIENTATION = 215.												
STORM CENTER COORDINATES, X = 198.0, Y = 420.0												
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS	4	5	6	7	8	9	10
A 10.	0.	25.00	5.40	2.92	2.00	1.55	1.27	1.07	.93	.82	.74	.67
B 25.	0.	23.48	5.21	2.88	2.00	1.55	1.27	1.07	.93	.82	.74	.67
C 50.	0.	21.97	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.74	.67
D 100.	0.	20.45	4.87	2.82	2.00	1.55	1.27	1.07	.93	.82	.74	.67
E 175.	0.	19.13	4.75	2.81	2.00	1.55	1.27	1.07	.93	.82	.74	.67
F 300.	0.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67
G 450.	17.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67
H 700.	24.	11.93	3.70	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56
I 1000.	24.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47
J 1500.	24.	7.20	2.60	1.69	1.20	.93	.76	.64	.56	.49	.44	.40
K 2150.	24.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33
L 3000.	24.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26
M 4500.	24.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20
N 6500.	24.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.12
O 10000.	24.	.57	.21	.20	.14	.11	.09	.08	.07	.06	.05	.04
P 15000.	24.	.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
R 40000.	24.	.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
AVERAGE DEPTH		15.98	4.44	2.73	1.95	1.52	1.24	1.05	.91	.80	.72	.65

TIME INTERVAL = 60. MINUTES

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

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

PROBABLE MAXIMUM STORM FOR BASIN3												
DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.10	.10	0700	.12	.71	1300	.15	1.46	1900	.21	2.43
	0200	.10	.20	0800	.12	.83	1400	.15	1.61	2000	.21	2.63
	0300	.10	.30	0900	.12	.95	1500	.15	1.77	2100	.21	2.84
	0400	.10	.40	1000	.12	1.07	1600	.15	1.92	2200	.21	3.05
	0500	.10	.49	1100	.12	1.19	1700	.15	2.07	2300	.21	3.26
	0600	.10	.59	1200	.12	1.31	1800	.15	2.22	2400	.21	3.46
6-HR TOTAL		.59			.72			.91			1.24	

PR 4.0UT												
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.29	3.75	0700	.58	5.99	1300	1.28	11.14	1900	.54	26.37
	0200	.30	4.05	0800	.62	6.62	1400	1.89	13.04	2000	.50	26.87
	0300	.31	4.37	0900	.68	7.30	1500	2.79	15.83	2100	.46	27.34
	0400	.33	4.70	1000	.76	8.05	1600	5.93	21.76	2200	.43	27.77
	0500	.35	5.05	1100	.85	8.90	1700	2.38	24.15	2300	.41	28.18
	0600	.37	5.42	1200	.96	9.86	1800	1.69	25.83	2400	.39	28.56
6-HR TOTAL		1.95		4.44			15.98			2.73		
DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.25	28.82	0700	.17	30.26	1300	.13	31.26	1900	.11	32.04
	0200	.25	29.07	0800	.17	30.43	1400	.13	31.40	2000	.11	32.15
	0300	.25	29.32	0900	.17	30.61	1500	.13	31.53	2100	.11	32.26
	0400	.25	29.58	1000	.17	30.78	1600	.13	31.67	2200	.11	32.37
	0500	.25	29.83	1100	.17	30.96	1700	.13	31.80	2300	.11	32.48
	0600	.25	30.08	1200	.17	31.13	1800	.13	31.93	2400	.11	32.58
6-HR TOTAL		1.52		1.05			.80			.65		

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

STORM AREA = 450. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN2
 STORM CENTER COORDINATES, X = 198.0, Y = 420.0, ORIENTATION = 170., 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.	25.00	5.40	2.92	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
B 25.	0.	23.48	5.21	2.88	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
C 50.	0.	21.97	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
D 100.	0.	20.45	4.82	2.82	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
E 175.	0.	19.13	4.75	2.81	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
F 300.	0.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
G 450.	1.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
H 700.	10.	11.93	3.70	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51
I 1000.	10.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	10.	7.20	2.60	1.69	1.20	.93	.76	.64	.56	.49	.44	.40	.36
K 2150.	10.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	10.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	10.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	10.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12
O 10000.	10.	.57	.21	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		13.87	4.07	2.55	1.82	1.41	1.15	.98	.85	.75	.67	.60	.55

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.02	10.04	14.32	17.96	25.00	30.39	33.31	35.31	36.87	38.14	39.21	40.14	40.96	41.70	42.36	42.97
B	.98	1.96	2.92	5.62	9.38	13.41	16.83	23.48	28.69	31.57	33.57	35.12	36.39	37.46	38.40	39.22	39.95	40.62	41.23
C	.92	1.83	2.72	5.24	8.74	12.51	15.71	21.97	26.98	29.83	31.83	33.38	34.65	35.73	36.66	37.48	38.21	38.88	39.49
D	.85	1.69	2.52	4.85	8.10	11.61	14.59	20.45	25.32	28.14	30.14	31.70	32.97	34.04	34.97	35.79	36.53	37.19	37.80
E	.79	1.57	2.34	4.51	7.54	10.82	13.60	19.13	23.88	26.69	28.68	30.24	31.51	32.58	33.51	34.34	35.07	35.74	36.34
F	.72	1.44	2.15	4.13	6.90	9.93	12.48	17.61	22.24	25.04	27.04	28.60	29.87	30.94	31.87	32.69	33.43	34.09	34.70
G	.67	1.33	1.97	3.80	6.36	9.15	11.51	16.29	20.82	23.61	25.61	27.17	28.44	29.51	30.44	31.26	32.00	32.66	33.27
H	.61	.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	.56	.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	.52	.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	.48	.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	.44	.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	.40	.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	.36	.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
O	.32	.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
P	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

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

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

DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.27	3.49	0700	.53	5.57	1300	1.25	10.36	1900	.50	23.48
	0200	.28	3.77	0800	.56	6.14	1400	1.87	12.22	2000	.47	23.94
	0300	.29	4.07	0900	.62	6.75	1500	2.58	14.80	2100	.43	24.38
	0400	.31	4.37	1000	.69	7.44	1600	4.21	19.01	2200	.40	24.78
	0500	.32	4.70	1100	.78	8.22	1700	2.29	21.30	2300	.38	25.16
	0600	.34	5.04	1200	.89	9.11	1800	1.68	22.98	2400	.36	25.52
	6-HR TOTAL	1.82			4.07			13.87			2.55	

DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.24	25.76	0700	.16	27.10	1300	.12	28.04	1900	.10	28.76
	0200	.24	25.99	0800	.16	27.26	1400	.12	28.16	2000	.10	28.86
	0300	.24	26.23	0900	.16	27.42	1500	.12	28.29	2100	.10	28.96
	0400	.24	26.47	1000	.16	27.59	1600	.12	28.41	2200	.10	29.06
	0500	.24	26.70	1100	.16	27.75	1700	.12	28.54	2300	.10	29.16
	0600	.24	26.94	1200	.16	27.91	1800	.12	28.66	2400	.10	29.27
	6-HR TOTAL	1.41			.98			.75			.60	

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 = 450. SQ. MI., ORIENTATION = 170., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 198.0, Y = 420.0

AREA WITHIN BASIN (SQ. MI.)		STORM CENTER COORDINATES, X = 158.0, Y = 420.0											
ISOHYET AREA (SQ. MI.)		1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	25.00	5.40	2.92	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
B 25.	0.	23.48	5.21	2.88	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
C 50.	0.	21.97	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
D 100.	0.	20.45	4.87	2.82	2.00	1.55	1.27	1.07	.90	.82	.74	.67	.61
E 175.	0.	19.13	4.75	2.81	2.00	1.55	1.27	1.07	.89	.82	.74	.67	.61
F 300.	5.	17.61	4.63	2.80	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
G 450.	25.	16.29	4.54	2.79	2.00	1.55	1.27	1.07	.93	.82	.74	.67	.61
H 700.	54.	11.93	3.70	2.36	1.68	1.30	1.07	.90	.78	.69	.62	.56	.51
I 1000.	64.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43
J 1500.	64.	7.20	2.60	1.69	1.20	.93	.76	.64	.56	.49	.44	.40	.36
K 2150.	64.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30
L 3000.	64.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24
M 4500.	64.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18
N 6500.	64.	1.51	.67	.53	.38	.30	.24	.20	.18	.16	.14	.12	.12
O 10000.	64.	.27	.21	.20	.14	.10	.07	.07	.07	.09	.05	.05	.05
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		14.69	4.19	2.59	1.85	1.44	1.18	1.00	.86	.76	.68	.62	.56

PR 4.OUT

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.02	10.04	14.32	17.96	25.00	30.39	33.31	35.31	36.87	38.14	39.21	40.14	40.96	41.70	42.36	42.97
B	.98	1.96	2.92	5.62	9.38	13.41	16.83	23.48	28.69	31.57	33.57	35.12	36.39	37.46	38.40	39.22	39.95	40.62	41.23
C	.92	1.83	2.72	5.24	8.74	12.51	15.71	21.97	26.98	29.83	31.83	33.38	34.65	35.73	36.66	37.48	38.21	38.88	39.49
D	.85	1.69	2.52	4.85	8.10	11.61	14.59	20.45	25.32	28.14	30.14	31.70	32.97	34.04	34.97	35.79	36.53	37.19	37.80
E	.79	1.57	2.34	4.51	7.54	10.82	13.60	19.13	23.88	26.69	28.68	30.24	31.51	32.58	33.51	34.34	35.07	35.74	36.34
F	.72	1.44	2.15	4.13	6.90	9.93	12.48	17.61	22.24	25.04	27.04	28.60	29.87	30.94	31.87	32.69	33.43	34.09	34.70
G	.67	1.33	1.97	3.80	6.36	9.15	11.51	16.29	20.82	23.61	25.61	27.17	28.44	29.51	30.44	31.26	32.00	32.66	33.27
H	.61	1.22	1.82	3.58	6.06	8.78	11.13	15.81	20.24	23.03	25.03	26.59	27.86	28.93	29.86	30.68	31.42	32.08	32.69
I	.56	1.12	1.68	3.36	5.76	8.40	10.75	15.43	19.76	22.55	24.55	26.11	27.38	28.45	29.38	30.20	30.94	31.60	32.19
J	.52	1.04	1.56	3.12	5.40	7.92	10.27	14.85	19.18	21.97	23.97	25.53	26.80	27.87	28.80	29.62	30.36	31.02	31.61
K	.48	0.96	1.44	2.88	5.04	7.20	9.44	13.68	17.60	20.39	22.39	23.95	25.22	26.29	27.22	28.04	28.78	29.44	30.03
L	.45	.90	1.35	2.70	4.80	6.90	9.12	13.20	17.04	19.83	21.83	23.39	24.66	25.73	26.66	27.48	28.21	28.88	29.49
M	.42	.84	1.26	2.52	4.56	6.72	8.96	13.04	16.80	19.59	21.59	23.15	24.42	25.49	26.42	27.24	27.98	28.64	29.25
N	.40	.80	1.20	2.40	4.40	6.60	8.80	12.80	16.64	19.43	21.43	22.99	24.26	25.33	26.26	27.08	27.82	28.48	29.09
O	.38	.76	1.14	2.28	4.32	6.48	8.64	12.56	16.40	19.19	21.19	22.75	24.02	25.09	25.92	26.74	27.48	28.14	28.75
P	.36	.72	1.08	2.16	4.24	6.36	8.48	12.32	16.16	18.95	20.95	22.51	23.78	24.85	25.78	26.60	27.34	27.90	28.51
Q	.34	.68	1.02	2.04	4.08	6.12	8.16	12.00	15.84	18.63	20.63	22.19	23.46	24.53	25.46	26.28	27.02	27.58	28.19
R	.32	.64	.96	1.92	3.84	5.76	7.68	11.52	15.36	18.15	20.15	21.71	22.98	24.05	24.98	25.80	26.54	27.10	27.71
S	.30	.60	.90	1.80	3.60	5.40	7.20	10.80	14.64	17.43	19.43	20.99	22.26	23.33	24.26	25.08	25.82	26.38	26.99
AVERAGE	.49	.99	1.47	2.85	4.92	7.57	9.89	14.69	18.88	21.47	23.33	24.77	25.94	26.94	27.80	28.56	29.24	29.86	30.42

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	.68		1300	.14	1.39		1900	.20	2.30	
0200	.09	.19		0800	.11	.79		1400	.14	1.53		2000	.20	2.50	
0300	.09	.28		0900	.11	.90		1500	.14	1.68		2100	.20	2.69	
0400	.09	.38		1000	.11	1.02		1600	.14	1.82		2200	.20	2.89	
0500	.09	.47		1100	.11	1.13		1700	.14	1.96		2300	.20	3.09	
0600	.09	.56		1200	.11	1.24		1800	.14	2.11		2400	.20	3.28	
6-HR TOTAL	.56				.68				.86				1.18		
DAY 2															
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.27	3.56		0700	.55	5.68		1300	1.26	10.58		1900	.51	24.53	
0200	.29	3.84		0800	.58	6.26		1400	1.87	12.45		2000	.47	25.00	
0300	.30	4.14		0900	.64	6.90		1500	2.66	15.11		2100	.44	25.44	
0400	.31	4.46		1000	.71	7.61		1600	4.92	20.02		2200	.41	25.86	
0500	.33	4.79		1100	.80	8.41		1700	2.32	22.34		2300	.39	26.24	
0600	.35	5.14		1200	.91	9.32		1800	1.67	24.02		2400	.37	26.61	
6-HR TOTAL	1.85				4.19				14.69				2.59		
DAY 3															
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.24	26.85		0700	.17	28.22		1300	.13	29.17		1900	.10	29.91	
0200	.24	27.09		0800	.17	28.38		1400	.13	29.30		2000	.10	30.01	
0300	.24	27.33		0900	.17	28.55		1500	.13	29.43		2100	.10	30.12	
0400	.24	27.57		1000	.17	28.71		1600	.13	29.55		2200	.10	30.22	
0500	.24	27.81		1100	.17	28.88		1700	.13	29.68		2300	.10	30.32	
0600	.24	28.05		1200	.17	29.05		1800	.13	29.81		2400	.10	30.42	
6-HR TOTAL	1.44				1.00				.76				.62		

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PR 5.OUT

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*
* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
*
* RUN DATE 06/25/2008 TIME 10:12:27
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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 M R R 5 2
HHHHHH M M M RRRRRR 555555 2
H H M M R R R 5 5 2
H H M M R R R 5 5 2
H H M M R R R 55555 2222222

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HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

1

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
2 ID ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
3 ID STORM CENTER WITHIN PALUXY RIVER BASIN AT PR5
4 BN CPNPP
5 ID CALCULATE STORM OVER ENTIRE AREA
6 BS 05827
7 BX 352.83 348.27 349.06 345.02 347.40 339.30 323.65 325.81 317.65 314.81
8 BX 317.41 315.60 306.50 302.11 295.40 295.40 289.69 284.22 279.71 267.30
9 BX 258.73 236.42 226.97 213.99 161.34 123.53 111.32 96.22 102.62 85.17
10 BX 76.93 85.92 75.56 77.81 82.63 84.8 66.09 56.79 57.55 49.52
11 BX 51.04 40.8 40.05 54.76 65.82 47.95 62.30 35.02 36.56 63.69
12 BX 73.84 72.72 84.03 121.92 126.58 133.09 136.39 145.99 138.58 143.21
13 BX 127.17 137.74 151.01 157.40 164.07 168.68 175.89 172.76 198.29 200.78
14 BX 217.93 233.49 243.97 277.06 294.55 315.41 331.83 340.98 349.67 353.27
15 BX 349.84 354.39 367.19 367.42 386.16 392.28 377.46 398.65 380.84 385.89
16 BX 375.51 379.9 370.35 371.38 365.4 356.46 349.53 353.98 353.13 356.42
17 BY 441.55 481.91 512.52 515.46 523.63 523.40 550.24 562.78 565.85 571.38
18 BY 574.39 579.23 582.39 600.03 600.45 611.99 617.28 639.95 643.97 640.65
19 BY 651.35 648.71 677.81 664.96 685.28 676.86 664.03 593.06 588.7 547.94
20 BY 530.64 505.2 501.21 486.11 484.73 480.07 460.51 459.91 445.42 431.26
21 BY 423.96 416.89 406.78 378.07 347.05 304.18 290.43 242.80 238.08 238.71
22 BY 233.34 225.26 226.56 215.42 225.3 225.3 213.74 213.23 195.37 187.2
23 BY 150.2 138.83 120.25 124.31 115.41 94.86 88.63 82.92 85.08 92.18
24 BY 92.91 104.32 104.64 101.45 114.21 121.11 122.14 112.91 115.82 123.27
25 BY 135.16 137.78 172.22 181.89 198.56 228.19 249.82 273.83 307.02 320.85
26 BY 358.76 370.7 385.48 393.09 396.82 395.52 405.43 411.9 420.9 429.53
27 HO 215
28 HP 10 29.7 35.3 40.0 45.0 48.0
29 HP 200 22.2 26.8 32.0 36.0 39.6
30 HP 1000 15.9 20.7 25.8 30.0 33.4
31 HP 5000 9.3 13.0 17.8 22.0 25.0
32 HP 10000 7.1 10.3 14.4 18.5 21.0
33 HP 20000 5.1 8.3 11.5 15.0 17.8
34 SA 0 0 3
35 SC 248 427
36 ST 60 0.308 0 1
37 PU ON

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38 BN BASIN4

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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 445.42 431.26 423.96 416.89 406.78 378.07 377.45 347.05 304.18

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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
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

PR 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									

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

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

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	365.5	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 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.	178.	8.84	1.63	.90	.63	.48	.39	.33	.28	.25	.22	.20	.18	11.37
25.	178.	11.58	2.41	1.39	.98	.75	.61	.51	.44	.39	.35	.32	.29	15.38
50.	178.	13.63	3.00	1.76	1.24	.96	.78	.66	.57	.50	.45	.41	.37	18.38
100.	178.	15.26	3.50	2.10	1.49	1.16	.94	.80	.69	.61	.54	.49	.45	20.86
175.	178.	16.50	3.86	2.36	1.68	1.31	1.07	.91	.79	.69	.62	.56	.51	22.71
300.	178.	17.34	4.27	2.59	1.85	1.43	1.17	.99	.86	.76	.68	.61	.56	24.20
450.	178.	17.74	4.57	2.73	1.94	1.50	1.23	1.04	.90	.80	.71	.64	.59	25.03
700.	178.	17.55	4.81	2.81	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60	25.18
1000.	178.	17.17	4.98	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.60	24.99
1500.	178.	16.62	4.81	2.79	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60	24.22
2150.	178.	16.07	4.65	2.73	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60	23.44
3000.	178.	15.50	4.53	2.67	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60	22.70
4500.	178.	14.62	4.35	2.60	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60	21.56
6500.	178.	13.98	4.10	2.47	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58	20.56
10000.	178.	13.08	3.78	2.29	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55	19.15
15000.	178.	12.22	3.54	2.14	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52	17.89
20000.	178.	11.39	3.36	2.03	1.48	1.19	.99	.85	.75	.66	.60	.54	.50	16.78

FIXED STORM AREA SIZE AND VARYING ORIENTATION

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

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

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

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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	PR 5.OUT																																			
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53																	
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24																	
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24																	
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12																	
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65																	
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27																	
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85																	
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75																	
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																	
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																	
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																	
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																	
AVERAGE	.65	1.30	1.94	3.73	6.32	9.42	12.09	17.55	22.36	25.18	27.17	28.71	29.98	31.04	31.97	32.78	33.51	34.17	34.77																	

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

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

DAY 3

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

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BOUNDARY COORDINATES FOR BASIN4

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

1

PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 700. SQ. MI., ORIENTATION = 180., PREFERRED ORIENTATION = 215.
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STORM CENTER COORDINATES, X = PR 5.OUT 248.0, Y = 427.0														
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.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
B 25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
C 50.	50.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
D 100.	98.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
E 175.	166.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
F 300.	252.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
G 450.	309.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
H 700.	375.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
I 1000.	405.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52	
J 1500.	411.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43	
K 2150.	411.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35	
L 3000.	411.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29	
M 4500.	411.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22	
N 6500.	411.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15	
O 10000.	411.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08	
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE DEPTH		17.81	4.83	2.81	1.99	1.54	1.26	1.07	.92	.81	.73	.66	.60	

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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	1.38	2.59	4.41	6.42	8.66	12.43	16.63	19.03	20.66	22.14	23.42	24.54	25.44	26.16	26.73	27.24	27.70
J	.44	.88	1.24	2.32	3.93	5.61	7.54	10.86	14.43	16.43	17.84	19.03	20.06	20.94	21.68	22.28	22.77	23.18	23.54
K	.41	.82	1.16	2.16	3.54	5.16	7.04	10.16	13.43	15.43	16.84	17.94	18.84	19.54	20.06	20.47	20.79	21.06	21.29
L	.38	.76	1.08	1.96	3.24	4.68	6.48	9.36	12.43	14.43	15.84	16.94	17.84	18.54	19.06	19.47	19.79	20.06	20.29
M	.35	.70	1.00	1.80	2.96	4.32	6.08	8.80	11.87	13.87	15.28	16.38	17.28	17.98	18.50	18.91	19.23	19.46	19.64
N	.32	.64	.96	1.72	2.72	4.08	5.76	8.32	11.17	12.97	14.38	15.48	16.38	17.08	17.60	18.01	18.33	18.56	18.74
O	.30	.60	.90	1.60	2.56	3.84	5.52	8.00	10.67	12.47	13.88	14.98	15.88	16.58	17.10	17.51	17.83	18.06	18.24
P	.28	.56	.84	1.52	2.40	3.60	5.28	7.68	10.17	11.97	13.38	14.48	15.38	16.08	16.60	17.01	17.33	17.56	17.74
Q	.26	.52	.78	1.44	2.24	3.36	4.96	7.12	9.51	11.31	12.72	13.82	14.72	15.42	15.94	16.35	16.67	16.90	17.08
R	.24	.48	.72	1.36	2.16	3.24	4.68	6.72	8.97	10.77	12.18	13.28	14.18	14.88	15.40	15.81	16.13	16.36	16.54
S	.22	.44	.66	1.28	2.00	3.00	4.40	6.40	8.53	10.33	11.74	12.84	13.74	14.44	14.96	15.37	15.69	15.92	16.10
AVERAGE	.66	1.32	1.96	3.78	6.41	9.56	12.28	17.81	22.65	25.46	27.45	28.99	30.25	31.32	32.24	33.05	33.78	34.44	35.04

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PROBABLE MAXIMUM STORM FOR BASIN4											
DAY 1				DAY 2				DAY 3			
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.10	.10		0700	.12	.72		1300	.15	1.48	
0200	.10	.20		0800	.12	.84		1400	.15	1.64	
0300	.10	.30		0900	.12	.97		1500	.15	1.79	
0400	.10	.40		1000	.12	1.09		1600	.15	1.94	
0500	.10	.50		1100	.12	1.21		1700	.15	2.10	
0600	.10	.60		1200	.12	1.33		1800	.15	2.25	
6-HR TOTAL	.60				.73				.92		
										1.26	
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.29	3.81		0700	.61	6.11		1300	1.45	11.78	
0200	.31	4.11		0800	.67	6.78		1400	2.16	13.94	
0300	.32	4.43		0900	.74	7.52		1500	3.15	17.09	
0400	.34	4.77		1000	.83	8.35		1600	6.41	23.50	
0500	.36	5.12		1100	.93	9.28		1700	2.72	26.22	
0600	.38	5.50		1200	1.05	10.33		1800	1.93	28.15	
6-HR TOTAL	1.99				4.83				17.81		
										2.81	
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.26	31.22		0700	.18	32.68		1300	.14	33.70	
0200	.26	31.47		0800	.18	32.86		1400	.14	33.84	
0300	.26	31.73		0900	.18	33.03		1500	.14	33.97	
0400	.26	31.99		1000	.18	33.21		1600	.14	34.11	
0500	.26	32.25		1100	.18	33.39		1700	.14	34.25	
0600	.26	32.50		1200	.18	33.57		1800	.14	34.38	
6-HR TOTAL	1.54				1.07				.81		
										.66	

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SUBBASIN3										PR 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 = 700. SQ. MI., ORIENTATION = 180., PREFERRED ORIENTATION = 215.											
		STORM CENTER COORDINATES, X = 248.0, Y = 427.0											
ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	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.	17.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	24.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	24.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	24.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	24.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	24.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	24.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	24.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	24.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.95	4.70	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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	.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	.41	.81	.42	.83	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	.83	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
M	.35	.70	.40	.80	1.20	2.40	3.60	6.00	8.40	9.60	10.80	11.60	12.30	12.90	13.40	13.90	14.40	14.80	15.20
N	.32	.64	.37	.73	1.10	2.20	3.30	5.50	7.70	8.80	9.90	10.60	11.20	11.70	12.20	12.60	13.00	13.40	13.80
O	.30	.60	.34	.68	1.02	2.04	3.06	5.10	7.14	8.16	9.18	9.80	10.40	10.90	11.40	11.90	12.40	12.90	13.40
P	.28	.56	.32	.64	.96	1.92	2.88	4.80	6.72	7.68	8.64	9.20	9.76	10.32	10.88	11.44	11.96	12.52	13.04
Q	.26	.52	.30	.60	.90	1.80	2.70	4.50	6.40	7.30	8.20	8.76	9.32	9.88	10.44	11.00	11.56	12.12	12.68
R	.24	.48	.28	.56	.84	1.68	2.52	4.20	6.00	6.96	7.92	8.48	9.04	9.60	10.16	10.72	11.28	11.84	12.40
S	.22	.44	.26	.52	.78	1.56	2.34	3.90	5.70	6.60	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50
AVERAGE	.60	1.19	1.77	3.40	5.76	8.56	10.97	15.95	20.64	23.46	25.46	27.02	28.29	29.37	30.30	31.12	31.85	32.52	33.12

PROBABLE MAXIMUM STORM FOR BASIN3									
DAY 1	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
	0100	.10	.10	0700	.12	.73	1300	.16	1.50
	0200	.10	.20	0800	.12	.85	1400	.16	1.65
	0300	.10	.30	0900	.12	.97	1500	.16	1.81
	0400	.10	.40	1000	.12	1.10	1600	.16	1.96
	0500	.10	.51	1100	.12	1.22	1700	.16	2.12
	0600	.10	.61	1200	.12	1.34	1800	.16	2.27
6-HR TOTAL		.61			.73			.93	
									1.27

		PR 5.0UT											
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	
	0100	.30	3.84	0700	.61	6.15	1300	1.33	11.57	1900	.56	26.75	
	0200	.31	4.15	0800	.66	6.81	1400	1.93	13.50	2000	.52	27.27	
	0300	.32	4.47	0900	.72	7.54	1500	2.80	16.30	2100	.48	27.75	
	0400	.34	4.81	1000	.80	8.34	1600	5.76	22.06	2200	.44	28.19	
	0500	.36	5.17	1100	.90	9.24	1700	2.41	24.47	2300	.42	28.61	
	0600	.38	5.55	1200	1.01	10.25	1800	1.72	26.19	2400	.40	29.01	
6-HR TOTAL		2.00		4.70			15.95			2.82			

DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	
	0100	.26	29.27	0700	.18	30.74	1300	.14	31.77	1900	.11	32.57	
	0200	.26	29.53	0800	.18	30.92	1400	.14	31.91	2000	.11	32.68	
	0300	.26	29.78	0900	.18	31.10	1500	.14	32.05	2100	.11	32.79	
	0400	.26	30.04	1000	.18	31.28	1600	.14	32.18	2200	.11	32.90	
	0500	.26	30.30	1100	.18	31.46	1700	.14	32.32	2300	.11	33.01	
	0600	.26	30.56	1200	.18	31.64	1800	.14	32.46	2400	.11	33.12	
6-HR TOTAL		1.56		1.07			.82			.66			

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

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

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

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	.49	.98	.96	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	.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	.41	.81	.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

Page 7

1

DAY 1

6-HR TOTAL

DAY 2

6-HR TOTAL

DAY 3

6-HR TOTAL

1

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	375.8	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									

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

1

PR 5.OUT

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.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	.91	.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	.87	.48	.82	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	.82	.43	.77	.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	.77	.40	.71	.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	.33	.73	.38	.66	.54	1.10	1.56	2.72	3.96	4.79	5.36	5.83	6.22	6.55	6.84	7.09	7.31	7.50	7.67
O	.31	.68	.35	.61	.50	1.03	1.44	2.46	3.59	4.37	4.90	5.32	5.69	6.01	6.28	6.51	6.71	6.89	7.05
P	.29	.64	.33	.57	.47	.97	1.33	2.26	3.29	3.99	4.48	4.88	5.22	5.51	5.76	5.98	6.17	6.34	6.49
Q	.27	.60	.31	.54	.44	.91	1.26	2.14	3.07	3.69	4.14	4.50	4.81	5.07	5.29	5.48	5.65	5.80	5.94
R	.25	.56	.29	.50	.41	.86	1.19	2.02	2.85	3.39	3.79	4.11	4.37	4.59	4.77	4.93	5.08	5.22	5.35
S	.23	.53	.27	.47	.39	.81	1.12	1.90	2.67	3.15	3.50	3.76	3.98	4.16	4.32	4.47	4.61	4.74	4.86
AVERAGE	.63	1.25	1.86	3.57	6.05	8.99	11.52	16.71	21.47	24.29	26.29	27.85	29.12	30.19	31.12	31.94	32.67	33.34	33.94

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

DAY 2

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

DAY 3

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

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*
*   PROBABLE MAXIMUM STORM (HMR52)
*   NOVEMBER 1982
*   REVISED APRIL 91
*
*   RUN DATE 06/25/2008   TIME 10:12:54
*
*****

PR 6.OUT

*****
*
*   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   555555   22222
H   H   MM  MM   R   R   5       2   2
H   H   M M M M   R   R   5       2
HHHHHHH M   M   RRRRRR   555555   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   55555   2222222

HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

1
LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
2 ID ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
3 ID STORM CENTER WITHIN PALUXY RIVER BASIN AT PR6
4 BN CPNPP
5 ID CALCULATE STORM OVER ENTIRE AREA
6 BS .05827
7 BX 352.83 348.27 349.06 345.02 347.40 339.30 323.65 325.81 317.65 314.81
8 BX 317.41 315.60 306.50 302.11 295.40 295.40 289.69 284.22 279.71 267.30
9 BX 258.73 236.42 226.97 213.99 161.34 123.53 111.32 96.22 102.62 85.17
10 BX 76.93 85.92 75.56 77.81 82.63 84.8 66.09 56.79 57.55 49.52
11 BX 51.04 40.8 40.05 54.76 65.82 47.95 62.30 35.02 36.56 63.69
12 BX 73.84 72.72 84.03 121.92 126.58 133.09 136.39 145.99 138.58 143.21
13 BX 127.17 137.74 151.01 157.40 164.07 168.68 175.89 172.76 198.29 200.78
14 BX 217.93 233.49 243.97 277.06 294.55 315.41 331.83 340.98 349.67 353.27
15 BX 349.84 354.39 367.19 367.42 386.16 392.28 377.46 398.65 380.84 385.89
16 BX 375.51 379.9 370.35 371.38 365.4 356.46 349.53 353.98 353.13 356.42
17 BY 441.55 481.91 512.52 515.46 523.63 523.40 550.24 562.78 565.85 571.38
18 BY 574.39 579.23 582.39 600.03 600.45 611.99 617.28 639.95 643.97 640.65
19 BY 651.35 648.71 677.81 664.96 685.28 676.86 664.03 593.06 588.7 547.94
20 BY 530.64 505.2 501.21 486.11 484.73 480.07 460.51 459.91 445.42 431.26
21 BY 423.96 416.89 406.78 378.07 347.05 304.18 290.43 242.80 238.08 238.71
22 BY 233.34 225.26 226.56 215.42 225.3 225.3 213.74 213.23 195.37 187.2
23 BY 150.2 138.83 120.25 124.31 115.41 94.86 88.63 82.92 85.08 92.18
24 BY 92.91 104.32 104.64 101.45 114.21 121.11 122.14 112.91 115.82 123.27
25 BY 135.16 137.78 172.22 181.89 198.56 228.19 249.82 273.83 307.02 320.85
26 BY 358.76 370.7 385.48 393.09 396.82 395.52 405.43 411.9 420.9 429.53
27 HO 215
28 HP 10 29.7 35.3 40.0 45.0 48.0
29 HP 200 22.2 26.8 32.0 36.0 39.6
30 HP 1000 15.9 20.7 25.8 30.0 33.4
31 HP 5000 9.3 13.0 17.8 22.0 25.0
32 HP 10000 7.1 10.3 14.4 18.5 21.0
33 HP 20000 5.1 8.3 11.5 15.0 17.8
34 SA 0 0 3
35 SC 297 433
36 ST 60 0.308 0 1
37 PU ON
38 BN BASIN4
39 BX 352.83 348.27 349.06 345.02 347.40 339.30 323.65 325.81 317.65 314.81
40 BX 317.41 315.60 306.50 302.11 295.40 295.40 289.69 284.22 279.71 267.30
41 BX 258.73 236.42 226.97 213.99 161.34 123.53 111.32 96.22 102.62 97.35
42 BX 81.49 85.17 76.93 85.92 75.56 77.81 82.63 84.8 70.55 66.09
43 BX 56.79 57.55 49.52 51.04 40.8 40.05 54.76 61.58 65.82 47.95
44 BX 62.30 35.02 36.56 46.93 55.09 63.69 73.84 72.72 84.03 92.24
45 BX 97.83 121.92 126.58 133.09 136.39 145.99 138.58 143.21 127.17 137.74
46 BX 139.10 151.01 157.40 164.07 200.07 219.86 230.63 240.75 246.73 251.89
47 BX 260.06 275.37 281.37 281.37 285.03 291.7 296.69 298.06 288.52 305.69
48 BX 294.79 330.09
49 BY 441.55 481.91 512.52 515.46 523.63 523.40 550.24 562.78 565.85 571.38
50 BY 574.39 579.23 582.39 600.03 600.45 611.99 617.28 639.95 643.97 640.65
51 BY 651.35 648.71 677.81 664.96 685.28 676.86 664.03 593.06 588.7 567.83
52 BY 554.59 547.94 530.64 505.2 501.21 486.11 484.73 480.07 471.39 460.51
53 BY 459.91 445.42 431.26 423.96 416.89 406.78 378.07 377.45 347.05 304.18
HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA
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 200.38 192.59 188.09 177.77 167.45 160.46 154.76 154.76 153.56 156.62
66 BY 153.31 145.58 135.17 125.34 115.41 94.86 88.63 82.92 85.08 92.18
67 BY 92.91 104.32 104.64 101.71 106.79 105.33 107.43 101.45 107.36 107.36
68 BY 114.21 114.52 116.39 128.54 141.75 169.52 181.13
69 BN BASIN2
70 ID SUBBASIN2
71 BX 367.42 364.98 356.16 322.02 318.79 308.87 307.93 308.46 303.88 308.51
72 BX 315.41 331.83 340.98 349.67 353.27 349.84 354.39 357.02 364.94 364.65
73 BX 367.19

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PR 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									

87 ZZ

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

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

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VARYING STORM AREA SIZE AND FIXED ORIENTATION

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

FIXED STORM AREA SIZE AND VARYING ORIENTATION

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

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

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

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

		PR 6.OUT																												
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29											
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08											
J	.16	.33	.49	.97	1.94	2.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50											
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40											
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29											
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54											
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94											
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59											
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00											
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00											
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00											
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00											
AVERAGE	.56	1.11	1.65	3.17	5.44	8.37	10.92	16.28	21.14	23.96	25.94	27.47	28.73	29.79	30.70	31.51	32.24	32.89	33.49											

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

TIME	PRECIPITATION INCR	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	2.65
0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.86
0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.07
0500	.10	.50	1100	.12	1.20	1700	.15	2.08	2300	.21	3.28
0600	.10	.60	1200	.12	1.32	1800	.15	2.24	2400	.21	3.49
6-HR TOTAL	.60		.72			.92			1.25		

DAY 2

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

DAY 3

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

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BOUNDARY COORDINATES FOR BASIN4

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

1

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

PR 6.OUT
STORM CENTER COORDINATES, X = 297.0, Y = 433.0

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

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

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

DAY 2

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

DAY 3

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

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SUBBASIN3

PR 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

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

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

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	.53	1.06	1.57	3.03	5.19	7.94	10.33	15.39	20.22	23.05	25.06	26.61	27.88	28.95	29.88	30.70	31.43	32.09	32.70

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PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

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

							PR 6.OUT					
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.83	0700	.62	6.16	1300	1.36	11.73	1900	.57	26.33
	0200	.31	4.14	0800	.68	6.84	1400	1.95	13.67	2000	.52	26.85
	0300	.32	4.46	0900	.75	7.58	1500	2.75	16.42	2100	.48	27.33
	0400	.34	4.80	1000	.83	8.41	1600	5.19	21.61	2200	.45	27.77
	0500	.36	5.16	1100	.92	9.34	1700	2.39	24.00	2300	.42	28.19
	0600	.38	5.54	1200	1.03	10.37	1800	1.75	25.76	2400	.40	28.59
	6-HR TOTAL	2.01		4.83			15.39			2.83		
DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.26	28.85	0700	.18	30.32	1300	.14	31.35	1900	.11	32.14
	0200	.26	29.11	0800	.18	30.50	1400	.14	31.49	2000	.11	32.25
	0300	.26	29.37	0900	.18	30.68	1500	.14	31.62	2100	.11	32.36
	0400	.26	29.62	1000	.18	30.86	1600	.14	31.76	2200	.11	32.47
	0500	.26	29.88	1100	.18	31.04	1700	.14	31.90	2300	.11	32.58
	0600	.26	30.14	1200	.18	31.21	1800	.14	32.03	2400	.11	32.70
	6-HR TOTAL	1.55		1.07			.82			.66		

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

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

ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	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	.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.	6.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
H 700.	10.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
I 1000.	10.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
J 1500.	10.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50	.40
K 2150.	10.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40	.33
L 3000.	10.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33	.26
M 4500.	10.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26	.19
N 6500.	10.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19	.11
O 10000.	10.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11	.00
P 15000.	10.	.00	.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	.00
R 40000.	10.	.00	.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	.00
AVERAGE DEPTH		15.32	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.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	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

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DAY 1

DAY 2DAY 31

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

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PR 6.OUT

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
	0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
	0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
	0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
	0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
	0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL		.60			.73			.93			1.27	
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.83	0700	.63	6.17	1300	1.52	12.09	1900	.58	29.12
	0200	.31	4.14	0800	.69	6.86	1400	2.27	14.36	2000	.53	29.65
	0300	.32	4.46	0900	.77	7.64	1500	3.22	17.58	2100	.48	30.14
	0400	.34	4.80	1000	.86	8.50	1600	6.12	23.70	2200	.45	30.58
	0500	.36	5.16	1100	.98	9.47	1700	2.81	26.52	2300	.42	31.00
	0600	.38	5.54	1200	1.10	10.58	1800	2.03	28.54	2400	.40	31.40
6-HR TOTAL		2.01			5.04			17.97			2.86	
DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.26	31.66	0700	.18	33.14	1300	.14	34.17	1900	.11	34.96
	0200	.26	31.92	0800	.18	33.31	1400	.14	34.30	2000	.11	35.07
	0300	.26	32.18	0900	.18	33.49	1500	.14	34.44	2100	.11	35.18
	0400	.26	32.44	1000	.18	33.67	1600	.14	34.57	2200	.11	35.29
	0500	.26	32.70	1100	.18	33.85	1700	.14	34.71	2300	.11	35.40
	0600	.26	32.96	1200	.18	34.03	1800	.14	34.85	2400	.11	35.51
6-HR TOTAL		1.55			1.07			.82			.66	

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*
* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
* RUN DATE 06/25/2008 TIME 10:13:28
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PR 7.0UT

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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 5 2
H H M M R R 55555 222222

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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 ID HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
2 ID ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
3 ID STORM CENTER WITHIN PALUXY RIVER BASIN AT PR7
4 BN CPNPP
5 ID CALCULATE STORM OVER ENTIRE AREA
6 BS 05827
7 BX 352.83 348.27 349.06 345.02 347.40 339.30 323.65 325.81 317.65 314.81
8 BX 317.41 315.60 306.50 302.11 295.40 295.40 289.69 284.22 279.71 267.30
9 BX 258.73 236.42 226.97 213.99 161.34 123.53 111.32 96.22 102.62 85.17
10 BX 76.93 85.92 75.56 77.81 82.63 84.8 66.09 56.79 57.55 49.52
11 BX 51.04 40.8 40.05 54.76 65.82 47.95 62.30 35.02 36.56 63.69
12 BX 73.84 72.72 84.03 121.92 126.58 133.09 136.39 145.99 138.58 143.21
13 BX 127.17 137.74 151.01 157.40 164.07 168.68 175.89 172.76 198.29 200.78
14 BX 217.93 233.49 243.97 277.06 294.55 315.41 331.83 340.98 349.67 353.27
15 BX 349.84 354.39 367.19 367.42 386.16 392.28 377.46 398.65 380.84 385.89
16 BX 375.51 379.9 370.35 371.38 365.4 356.46 349.53 353.98 353.13 356.42
17 BY 441.55 481.91 512.52 515.46 523.63 523.40 550.24 562.78 565.85 571.38
18 BY 574.39 579.23 582.39 600.03 600.45 611.99 617.28 639.95 643.97 640.65
19 BY 651.35 648.71 677.81 664.96 685.28 676.86 664.03 593.06 588.7 547.94
20 BY 530.64 505.2 501.21 486.11 484.73 480.07 460.51 459.91 445.42 431.26
21 BY 423.96 416.89 406.78 378.07 347.05 304.18 290.43 242.80 238.08 238.71
22 BY 233.34 225.26 226.56 215.42 225.3 225.3 213.74 213.23 195.37 187.2
23 BY 150.2 138.83 120.25 124.31 115.41 94.86 88.63 82.92 85.08 92.18
24 BY 92.91 104.32 104.64 101.45 114.21 121.11 122.14 112.91 115.82 123.27
25 BY 135.16 137.78 172.22 181.89 198.56 228.19 249.82 273.83 307.02 320.85
26 BY 358.76 370.7 385.48 393.09 396.82 395.52 405.43 411.9 420.9 429.53
27 HO 215
28 HP 10 29.7 35.3 40.0 45.0 48.0
29 HP 200 22.2 26.8 32.0 36.0 39.6
30 HP 1000 15.9 20.7 25.8 30.0 33.4
31 HP 5000 9.3 13.0 17.8 22.0 25.0
32 HP 10000 7.1 10.3 14.4 18.5 21.0
33 HP 20000 5.1 8.3 11.5 15.0 17.8
34 SA 0 0 3
35 SC 304 384
36 ST 60 0.308 0 1
37 PU ON
38 BN BASIN4
39 BX 352.83 348.27 349.06 345.02 347.40 339.30 323.65 325.81 317.65 314.81
40 BX 317.41 315.60 306.50 302.11 295.40 295.40 289.69 284.22 279.71 267.30
41 BX 258.73 236.42 226.97 213.99 161.34 123.53 111.32 96.22 102.62 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 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 260.06 275.37 281.37 285.03 291.7 296.69 298.06 288.52 305.69
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

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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 200.58 192.59 188.09 177.77 167.45 160.46 154.76 153.56 156.62
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

PR 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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*****	*****
* 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 06/25/2008 TIME 10:13:28 *

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

PMP DEPTHS FROM HMR 51

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

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

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

SCALE = .0583 MILES PER COORDINATE UNIT

PR 7.0UT

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

FIXED STORM AREA SIZE AND VARYING ORIENTATION

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

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STORM AREA = 1000. SQ. MI., PROBABLE MAXIMUM STORM FOR CPNPP
 STORM CENTER COORDINATES, X = 304.0, Y = 384.0, ORIENTATION = 175., 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.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
B 25.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
C 50.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
D 100.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
E 175.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
F 300.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
G 450.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
H 700.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
I 1000.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
J 1500.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50	.50
K 2150.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40	.40
L 3000.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33	.33
M 4500.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26	.26
N 6500.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19	.19
O 10000.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11	.11
P 15000.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

AVERAGE DEPTH 16.23 4.85 2.80 1.97 1.53 1.25 1.05 .91 .81 .72 .65 .59

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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		PR 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	.55	1.10	1.63	3.15	5.41	8.33	10.89	16.23	21.08	23.88	25.86	27.39	28.63	29.69	30.60	31.41	32.12	32.78	33.37										

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

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

DAY 2

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

DAY 3

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

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BOUNDARY COORDINATES FOR BASIN4

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 1000. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
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STORM CENTER COORDINATES, X = PR 7.OUT 304.0, Y = 384.0

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

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	.53	1.05	1.57	3.02	5.20	8.03	10.50	15.71	20.50	23.28	25.25	26.77	28.01	29.07	29.97	30.78	31.49	32.14	32.73

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.10	.10	0700	.12	.71	1300	.15	1.46	1900	.21	2.43
	0200	.10	.20	0800	.12	.83	1400	.15	1.61	2000	.21	2.63
	0300	.10	.30	0900	.12	.95	1500	.15	1.76	2100	.21	2.84
	0400	.10	.39	1000	.12	1.07	1600	.15	1.92	2200	.21	3.05
	0500	.10	.49	1100	.12	1.19	1700	.15	2.07	2300	.21	3.25
	0600	.10	.59	1200	.12	1.31	1800	.15	2.22	2400	.21	3.46
6-HR TOTAL		.59			.72			.91			1.24	

DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.29	3.75	0700	.61	6.04	1300	1.38	11.60	1900	.56	26.48
	0200	.30	4.05	0800	.67	6.70	1400	2.01	13.61	2000	.51	27.00
	0300	.32	4.37	0900	.74	7.44	1500	2.83	16.44	2100	.47	27.47
	0400	.33	4.70	1000	.82	8.26	1600	5.20	21.64	2200	.44	27.91
	0500	.35	5.05	1100	.92	9.18	1700	2.48	24.11	2300	.41	28.32
	0600	.37	5.43	1200	1.03	10.22	1800	1.81	25.92	2400	.39	28.71
6-HR TOTAL		1.97			4.79			15.71			2.79	

DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.25	28.96	0700	.18	30.41	1300	.13	31.42	1900	.11	32.19
	0200	.25	29.22	0800	.18	30.58	1400	.13	31.55	2000	.11	32.30
	0300	.25	29.47	0900	.18	30.76	1500	.13	31.68	2100	.11	32.41
	0400	.25	29.73	1000	.18	30.93	1600	.13	31.82	2200	.11	32.52
	0500	.25	29.98	1100	.18	31.11	1700	.13	31.95	2300	.11	32.63
	0600	.25	30.23	1200	.18	31.28	1800	.13	32.09	2400	.11	32.73
6-HR TOTAL		1.52			1.05			.80			.65	

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SUBBASIN3					PR 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														
STORM AREA = 1000. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN3, ORIENTATION = 175., PREFERRED ORIENTATION = 215.														
STORM CENTER COORDINATES, X = 304.0, Y = 384.0														
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	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
D 100.	0.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
E 175.	0.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
F 300.	6.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
G 450.	14.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
H 700.	20.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
I 1000.	24.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	
J 1500.	24.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50	
K 2150.	24.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40	
L 3000.	24.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33	
M 4500.	24.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26	
N 6500.	24.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19	
O 10000.	24.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11	
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE DEPTH		15.47	4.84	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	

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	15.30	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.53	1.06	1.58	3.04	5.22	7.98	10.39	15.47	20.31	23.14	25.15	26.70	27.97	29.04	29.97	30.79	31.52	32.18	32.78

PROBABLE MAXIMUM STORM FOR BASIN3												
DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
	0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
	0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
	0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
	0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
	0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
	6-HR TOTAL	.60		.73		.93		1.27				

							PR 7.0UT					
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.83	0700	.62	6.16	1300	1.36	11.74	1900	.57	26.41
	0200	.31	4.14	0800	.68	6.84	1400	1.96	13.69	2000	.52	26.94
	0300	.32	4.46	0900	.75	7.58	1500	2.77	16.46	2100	.48	27.42
	0400	.34	4.80	1000	.83	8.42	1600	5.22	21.68	2200	.45	27.86
	0500	.36	5.16	1100	.93	9.34	1700	2.41	24.08	2300	.42	28.28
	0600	.38	5.54	1200	1.03	10.38	1800	1.76	25.85	2400	.40	28.68
6-HR TOTAL		2.01		4.84				15.47				2.83

DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.26	28.94	0700	.18	30.41	1300	.14	31.44	1900	.11	32.23
	0200	.26	29.20	0800	.18	30.59	1400	.14	31.58	2000	.11	32.34
	0300	.26	29.46	0900	.18	30.77	1500	.14	31.71	2100	.11	32.45
	0400	.26	29.71	1000	.18	30.95	1600	.14	31.85	2200	.11	32.56
	0500	.26	29.97	1100	.18	31.13	1700	.14	31.99	2300	.11	32.67
	0600	.26	30.23	1200	.18	31.30	1800	.14	32.12	2400	.11	32.78
6-HR TOTAL		1.55		1.07				.82				.66

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

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

ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	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.	10.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	10.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	10.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	10.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	10.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	10.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	10.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	10.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	10.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	10.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.93	4.96	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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PR 7.0UT																	
R	.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
AVERAGE	.59	1.17	1.74	3.35	5.74	8.77	11.42	16.93	21.88	24.73	26.73	28.29	29.56	30.63	31.56	32.38	33.11

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

DAY 2

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

DAY 3

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

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

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

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

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PR 7.OUT

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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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	2.48
	0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
	0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
	0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
	0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
	0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL		.60			.73			.93			1.27	
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.83	0700	.64	6.18	1300	1.63	12.38	1900	.59	31.14
	0200	.31	4.14	0800	.71	6.89	1400	2.49	14.87	2000	.53	31.68
	0300	.32	4.46	0900	.79	7.68	1500	3.55	18.42	2100	.49	32.16
	0400	.34	4.80	1000	.89	8.58	1600	6.80	25.22	2200	.45	32.61
	0500	.36	5.16	1100	1.01	9.59	1700	3.11	28.33	2300	.42	33.04
	0600	.38	5.54	1200	1.15	10.74	1800	2.22	30.55	2400	.40	33.44
6-HR TOTAL		2.01			5.21			19.81			2.89	
DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.26	33.70	0700	.18	35.17	1300	.14	36.20	1900	.11	36.99
	0200	.26	33.96	0800	.18	35.35	1400	.14	36.34	2000	.11	37.10
	0300	.26	34.21	0900	.18	35.53	1500	.14	36.47	2100	.11	37.21
	0400	.26	34.47	1000	.18	35.71	1600	.14	36.61	2200	.11	37.32
	0500	.26	34.73	1100	.18	35.88	1700	.14	36.75	2300	.11	37.43
	0600	.26	34.99	1200	.18	36.06	1800	.14	36.88	2400	.11	37.54
6-HR TOTAL		1.55			1.07			.82			.66	

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*
*   PROBABLE MAXIMUM STORM (HMR52)
*   NOVEMBER 1982
*   REVISED APRIL 91
*
*   RUN DATE 06/25/2008   TIME 10:14:01
*
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PR 8.OUT

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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
*
*****

H   H   M   M   RRRRRR   555555   22222
H   H   MM  MM   R   R   5       2   2
H   H   M M M M   R   R   5       2
HHHHHHH M   M   M   RRRRRR   555555   2
H   H   M   M   R   R   5       5   2
H   H   M   M   R   R   5       5   2
H   H   M   M   R   R   55555   2222222

HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

1
LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1 ID HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
2 ID ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
3 ID STORM CENTER WITHIN PALUXY RIVER BASIN AT PR8
4 BN CPNPP
5 ID CALCULATE STORM OVER ENTIRE AREA
6 BS .05827
7 BX 352.83 348.27 349.06 345.02 347.40 339.30 323.65 325.81 317.65 314.81
8 BX 317.41 315.60 306.50 302.11 295.40 295.40 289.69 284.22 279.71 267.30
9 BX 258.73 236.42 226.97 213.99 161.34 123.53 111.32 96.22 102.62 85.17
10 BX 76.93 85.92 75.56 77.81 82.63 84.8 66.09 56.79 57.55 49.52
11 BX 51.04 40.8 40.05 54.76 65.82 47.95 62.30 35.02 36.56 63.69
12 BX 73.84 72.72 84.03 121.92 126.58 133.09 136.39 145.99 138.58 143.21
13 BX 127.17 137.74 151.01 157.40 164.07 168.68 175.89 172.76 198.29 200.78
14 BX 217.93 233.49 243.97 277.06 294.55 315.41 331.83 340.98 349.67 353.27
15 BX 349.84 354.39 367.19 367.42 386.16 392.28 377.46 398.65 380.84 385.89
16 BX 375.51 379.9 370.35 371.38 365.4 356.46 349.53 353.98 353.13 356.42
17 BY 441.55 481.91 512.52 515.46 523.63 523.40 550.24 562.78 565.85 571.38
18 BY 574.39 579.23 582.39 600.03 600.45 611.99 617.28 639.95 643.97 640.65
19 BY 651.35 648.71 677.81 664.96 685.28 676.86 664.03 593.06 588.7 547.94
20 BY 530.64 505.2 501.21 486.11 484.73 480.07 460.51 459.91 445.42 431.26
21 BY 423.96 416.89 406.78 378.07 347.05 304.18 290.43 242.80 238.08 238.71
22 BY 233.34 225.26 226.56 215.42 225.3 225.3 213.74 213.23 195.37 187.2
23 BY 150.2 138.83 120.25 124.31 115.41 94.86 88.63 82.92 85.08 92.18
24 BY 92.91 104.32 104.64 101.45 114.21 121.11 122.14 112.91 115.82 123.27
25 BY 135.16 137.78 172.22 181.89 198.56 228.19 249.82 273.83 307.02 320.85
26 BY 358.76 370.7 385.48 393.09 396.82 395.52 405.43 411.9 420.9 429.53
27 HO 215
28 HP 10 29.7 35.3 40.0 45.0 48.0
29 HP 200 22.2 26.8 32.0 36.0 39.6
30 HP 1000 15.9 20.7 25.8 30.0 33.4
31 HP 5000 9.3 13.0 17.8 22.0 25.0
32 HP 10000 7.1 10.3 14.4 18.5 21.0
33 HP 20000 5.1 8.3 11.5 15.0 17.8
34 SA 0 0 3
35 SC 255 377
36 ST 60 0.308 0 1
37 PU ON
38 BN BASIN4
39 BX 352.83 348.27 349.06 345.02 347.40 339.30 323.65 325.81 317.65 314.81
40 BX 317.41 315.60 306.50 302.11 295.40 295.40 289.69 284.22 279.71 267.30
41 BX 258.73 236.42 226.97 213.99 161.34 123.53 111.32 96.22 102.62 97.35
42 BX 81.49 85.17 76.93 85.92 75.56 77.81 82.63 84.8 70.55 66.09
43 BX 56.79 57.55 49.52 51.04 40.8 40.05 54.76 61.58 65.82 47.95
44 BX 62.30 35.02 36.56 46.93 55.09 63.69 73.84 72.72 84.03 92.24
45 BX 97.83 121.92 126.58 133.09 136.39 145.99 138.58 143.21 127.17 137.74
46 BX 139.10 151.01 157.40 164.07 200.07 219.86 230.63 240.75 246.73 251.89
47 BX 260.06 275.37 281.37 281.37 285.03 291.7 296.69 298.06 288.52 305.69
48 BX 294.79 330.09
49 BY 441.55 481.91 512.52 515.46 523.63 523.40 550.24 562.78 565.85 571.38
50 BY 574.39 579.23 582.39 600.03 600.45 611.99 617.28 639.95 643.97 640.65
51 BY 651.35 648.71 677.81 664.96 685.28 676.86 664.03 593.06 588.7 567.83
52 BY 554.59 547.94 530.64 505.2 501.21 486.11 484.73 480.07 471.39 460.51
53 BY 459.91 445.42 431.26 423.96 416.89 406.78 378.07 377.45 347.05 304.18
HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA
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 200.58 192.59 188.09 177.77 167.45 160.46 154.76 153.56 156.62
66 BY 153.31 145.58 135.17 125.34 115.41 94.86 88.63 82.92 85.08 92.18
67 BY 92.91 104.32 104.64 101.71 106.79 105.33 107.43 101.45 107.36 107.36
68 BY 114.21 114.52 116.39 128.54 141.75 169.52 181.13
69 BN BASIN2
70 ID SUBBASIN2
71 BX 367.42 364.98 356.16 322.02 318.79 308.87 307.93 308.46 303.88 308.51
72 BX 315.41 331.83 340.98 349.67 353.27 349.84 354.39 357.02 364.94 364.65
73 BX 367.19

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PR 8.OUT

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 10:14:01
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*
* U.S. ARMY CORPS OF ENGINEERS
* THE HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748 OR (FTS) 460-1748
*
*****

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

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

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

1

STORM AREA = 700. SQ. MI., PROBABLE MAXIMUM STORM FOR CPNPP
 STORM CENTER COORDINATES, X = 255.0, Y = 377.0, ORIENTATION = 175., 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.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
B 25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
C 50.	50.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
D 100.	100.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
E 175.	175.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
F 300.	296.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
G 450.	392.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
H 700.	467.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
I 1000.	500.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52	.52
J 1500.	509.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43	.43
K 2150.	509.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35	.35
L 3000.	509.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29	.29
M 4500.	509.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22	.22
N 6500.	509.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15	.15
O 10000.	509.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08	.08
P 15000.	509.	.00	.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	.00
R 40000.	509.	.00	.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	.00

AVERAGE DEPTH 17.57 4.81 2.81 1.99 1.54 1.26 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

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PR 8.0UT																								
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53					
I	.19	.38	.56	1.13	2.24	4.41	6.42	10.86	14.63	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24					
J	.14	.28	.43	.85	1.69	3.32	4.84	8.27	11.44	13.43	14.84	15.94	16.84	17.59	18.25	18.83	19.35	19.81	20.24					
K	.11	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12					
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65					
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27					
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85					
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75					
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					
AVERAGE	.65	1.30	1.93	3.73	6.32	9.43	12.10	17.57	22.38	25.19	27.18	28.72	29.98	31.04	31.97	32.78	33.51	34.16	34.77					

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

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

DAY 2

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

DAY 3

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

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BOUNDARY COORDINATES FOR BASIN4

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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

		STORM CENTER COORDINATES, X = PR 8.0UT 255.0, Y = 377.0											
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) 4	5	FOR 6-HOUR 6	INCREMENTS 7	OF PMS 8	9	10	11	12
A 10.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	49.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	94.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	152.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	237.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	300.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	368.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	401.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	411.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	411.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	411.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	411.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	411.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	411.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.60	4.81	2.81	1.98	1.54	1.26	1.06	.92	.81	.73	.66	.60

TIME INTERVAL = 60. MINUTES

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

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

PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1															
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.10	.10		0700	.12	.72		1300	.15	1.48		1900	.21	2.46	
0200	.10	.20		0800	.12	.84		1400	.15	1.63		2000	.21	2.66	
0300	.10	.30		0900	.12	.96		1500	.15	1.79		2100	.21	2.87	
0400	.10	.40		1000	.12	1.08		1600	.15	1.94		2200	.21	3.08	
0500	.10	.50		1100	.12	1.20		1700	.15	2.09		2300	.21	3.29	
0600	.10	.60		1200	.12	1.33		1800	.15	2.25		2400	.21	3.50	
6-HR TOTAL	.60				.73				.92				1.26		
DAY 2															
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.29	3.80		0700	.61	6.10		1300	1.43	11.72		1900	.56	28.45	
0200	.30	4.10		0800	.66	6.76		1400	2.14	13.87		2000	.52	28.97	
0300	.32	4.42		0900	.73	7.50		1500	3.11	16.98		2100	.48	29.44	
0400	.34	4.75		1000	.82	8.32		1600	6.31	23.29		2200	.44	29.88	
0500	.35	5.11		1100	.93	9.24		1700	2.69	25.98		2300	.41	30.30	
0600	.38	5.48		1200	1.05	10.29		1800	1.91	27.89		2400	.39	30.69	
6-HR TOTAL	1.98				4.81				17.60				2.81		
DAY 3															
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.26	30.95		0700	.18	32.41		1300	.14	33.43		1900	.11	34.21	
0200	.26	31.20		0800	.18	32.58		1400	.14	33.56		2000	.11	34.32	
0300	.26	31.46		0900	.18	32.76		1500	.14	33.70		2100	.11	34.43	
0400	.26	31.72		1000	.18	32.94		1600	.14	33.83		2200	.11	34.54	
0500	.26	31.97		1100	.18	33.12		1700	.14	33.97		2300	.11	34.65	
0600	.26	32.23		1200	.18	33.29		1800	.14	34.10		2400	.11	34.76	
6-HR TOTAL	1.54				1.06				.81				.66		

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SUBBASIN3

PR 8.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 = 255.0, Y = 377.0, ORIENTATION = 175., PREFERRED ORIENTATION = 215.

AREA		STORM CENTER COORDINATES, X = 233.0, Y = 377.0													
ISOHYET AREA (SQ. MI.)	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.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
E 175.	1.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
F 300.	13.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
G 450.	20.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
H 700.	24.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		
I 1000.	24.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52		
J 1500.	24.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43		
K 2150.	24.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35		
L 3000.	24.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29		
M 4500.	24.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22		
N 6500.	24.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15		
O 10000.	24.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08		
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
AVERAGE DEPTH		16.81	4.77	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61		

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	.49	.98	1.38	2.63	4.41	6.42	8.86	12.81	17.03	19.83	21.84	23.40	24.67	25.65	26.48	27.18	27.77	28.27	28.70
J	.44	.88	1.23	2.33	3.93	5.63	7.63	11.04	15.06	17.66	19.67	21.23	22.50	23.58	24.48	25.24	25.89	26.46	26.96
K	.41	.82	1.13	2.13	3.53	5.23	7.23	10.44	14.46	16.96	18.97	20.53	21.80	22.88	23.69	24.39	24.99	25.50	25.94
L	.38	.76	1.07	1.93	3.23	4.93	6.93	10.14	14.16	16.66	18.67	20.23	21.50	22.58	23.39	24.09	24.69	25.20	25.64
M	.35	.70	1.01	1.81	3.01	4.51	6.51	9.72	13.74	16.24	18.25	19.81	21.08	22.16	22.97	23.67	24.27	24.78	25.22
N	.33	.66	.99	1.79	2.99	4.49	6.49	9.70	13.72	16.22	18.23	19.79	21.06	22.14	22.95	23.65	24.25	24.76	25.20
O	.31	.62	.93	1.73	2.93	4.43	6.43	9.64	13.66	16.16	18.17	19.73	21.00	22.08	22.89	23.59	24.19	24.70	25.14
P	.30	.60	.90	1.70	2.90	4.40	6.40	9.60	13.60	16.10	18.11	19.67	20.94	22.02	22.83	23.53	24.13	24.64	25.08
Q	.30	.60	.90	1.70	2.90	4.40	6.40	9.60	13.60	16.10	18.11	19.67	20.94	22.02	22.83	23.53	24.13	24.64	25.08
R	.30	.60	.90	1.70	2.90	4.40	6.40	9.60	13.60	16.10	18.11	19.67	20.94	22.02	22.83	23.53	24.13	24.64	25.08
S	.30	.60	.90	1.70	2.90	4.40	6.40	9.60	13.60	16.10	18.11	19.67	20.94	22.02	22.83	23.53	24.13	24.64	25.08
AVERAGE	.63	1.26	1.87	3.60	6.09	9.05	11.59	16.81	21.57	24.40	26.40	27.96	29.23	30.30	31.23	32.05	32.79	33.45	34.06

1

PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1

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

							PR 8.0UT					
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.84	0700	.61	6.16	1300	1.38	11.69	1900	.56	27.69
	0200	.31	4.15	0800	.66	6.82	1400	2.03	13.72	2000	.52	28.20
	0300	.32	4.47	0900	.73	7.56	1500	2.96	16.68	2100	.48	28.68
	0400	.34	4.81	1000	.82	8.37	1600	6.09	22.77	2200	.44	29.13
	0500	.36	5.17	1100	.91	9.29	1700	2.54	25.31	2300	.42	29.55
	0600	.38	5.55	1200	1.03	10.31	1800	1.81	27.12	2400	.40	29.94
6-HR TOTAL	2.00			4.77			16.81			2.82		
DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.26	30.20	0700	.18	31.68	1300	.14	32.71	1900	.11	33.50
	0200	.26	30.46	0800	.18	31.86	1400	.14	32.85	2000	.11	33.62
	0300	.26	30.72	0900	.18	32.04	1500	.14	32.98	2100	.11	33.73
	0400	.26	30.98	1000	.18	32.21	1600	.14	33.12	2200	.11	33.84
	0500	.26	31.24	1100	.18	32.39	1700	.14	33.26	2300	.11	33.95
	0600	.26	31.50	1200	.18	32.57	1800	.14	33.39	2400	.11	34.06
6-HR TOTAL	1.56			1.07			.82			.66		

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 = 255.0, Y = 377.0, ORIENTATION = 175., 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.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
E 175.	0.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
F 300.	4.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
G 450.	10.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
H 700.	10.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61
I 1000.	10.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52	.43
J 1500.	10.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43	.35
K 2150.	10.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35	.29
L 3000.	10.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29	.22
M 4500.	10.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22	.15
N 6500.	10.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15	.08
O 10000.	10.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08	.00
P 15000.	10.	.00	.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	.00
R 40000.	10.	.00	.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	.00
AVERAGE DEPTH		16.71	4.76	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	.61

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	.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	.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	.41	.21	.32	.63	1.25	2.46	3.59	6.21	8.81	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12
L	.08	.16	.23	.47	.93	1.83	2.67	4.65	6.78	8.11	9.05	9.78	10.38	10.88	11.32	11.71	12.05	12.36	12.65
M	.05	.10	.15	.31	.61	1.20	1.76	3.10	4.65	5.69	6.44	7.01	7.48	7.88	8.22	8.53	8.80	9.04	9.27
N	.03	.06	.08	.17	.34	.66	.96	1.72	2.67	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85
O	.01	.02	.03	.07	.13	.26	.38	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

		PR 8. OUT																		
R		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE		.63	1.25	1.86	3.57	6.05	8.99	11.52	16.71	21.47	24.29	26.29	27.85	29.12	30.19	31.12	31.94	32.68	33.34	33.95

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

DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.84	0700	.61	6.16	1300	1.37	11.68	1900	.56	27.58
	0200	.31	4.15	0800	.66	6.82	1400	2.02	13.69	2000	.52	28.10
	0300	.32	4.47	0900	.73	7.55	1500	2.94	16.63	2100	.48	28.57
	0400	.34	4.81	1000	.81	8.37	1600	6.05	22.69	2200	.44	29.02
	0500	.36	5.17	1100	.91	9.28	1700	2.52	25.21	2300	.42	29.44
	0600	.38	5.55	1200	1.03	10.31	1800	1.80	27.01	2400	.40	29.83
	6-HR TOTAL	2.00			4.76			16.71			2.82	

DAY 3	PRECIPITATION			PRECIPITATION			PRECIPITATION			PRECIPITATION		
	TIME	INCR	TOTAL	TIME	INCR	TOTAL	TIME	INCR	TOTAL	TIME	INCR	TOTAL
	0100	.26	30.09	0700	.18	31.57	1300	.14	32.60	1900	.11	33.39
	0200	.26	30.35	0800	.18	31.75	1400	.14	32.74	2000	.11	33.51
	0300	.26	30.61	0900	.18	31.93	1500	.14	32.87	2100	.11	33.62
	0400	.26	30.87	1000	.18	32.10	1600	.14	33.01	2200	.11	33.73
	0500	.26	31.13	1100	.18	32.28	1700	.14	33.15	2300	.11	33.84
	0600	.26	31.39	1200	.18	32.46	1800	.14	33.28	2400	.11	33.95
6-HR TOTAL		1.56			1.07			.82			.66	

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 = 175., PREFERRED ORIENTATION = 215.
STORM CENTER COORDINATES, X = 255.0, Y = 377.0

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.	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.	21.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	45.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	62.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	64.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	64.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	64.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	64.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	64.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	64.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	64.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	64.	.42	.43	.37	.26	.17	.12	.10	.09	.09	.09	.09	.09
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.81	4.85	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

PR 8.OUT

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

DEPTH VS. DURATION

ISOHYET	S MIN	10 MIN	15 MIN	30 MIN	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	.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	.41	.81	.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	.38	.76	.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	.35	.70	.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	.33	.66	.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	.31	.62	.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	.30	.60	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.30	.60	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.30	.60	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.30	.60	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.67	1.34	1.99	3.83	6.48	9.62	12.32	17.81	22.66	25.49	27.49	29.05	30.32	31.39	32.32	33.14	33.88	34.54	35.15

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

DAY 2

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

DAY 3

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

1

PR 9.OUT

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*
*   PROBABLE MAXIMUM STORM (HMR52)
*   NOVEMBER 1982
*   REVISED APRIL 91
*
*   RUN DATE 06/25/2008   TIME 10:14:33
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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   RRRRRR   555555   5       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   55555   2222222

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HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION									
2	ID	ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008									
3	ID	STORM CENTER WITHIN PALUXY RIVER BASIN AT PR9									
4	BN	CPNPP									
5	ID	CALCULATE STORM OVER ENTIRE AREA									
6	BS	.05827									
7	BX	352.83	348.27	349.06	345.02	347.40	339.30	323.65	325.81	317.65	314.81
8	BX	317.41	315.60	306.50	302.11	295.40	295.40	289.69	284.22	279.71	267.30
9	BX	258.73	236.42	226.97	213.99	161.34	123.53	111.32	96.22	102.62	85.17
10	BX	76.93	85.92	75.56	77.81	82.63	84.8	66.09	56.79	57.55	49.52
11	BX	51.04	40.8	40.05	54.76	65.82	47.95	62.30	35.02	36.56	63.69
12	BX	73.84	72.72	84.03	121.92	126.58	133.09	136.39	145.99	138.58	143.21
13	BX	127.17	137.74	151.01	157.40	164.07	168.68	175.89	172.76	198.29	200.78
14	BX	217.93	233.49	243.97	277.06	294.55	315.41	331.83	340.98	349.67	353.27
15	BX	349.84	354.39	367.19	367.42	386.16	392.28	377.46	398.65	380.84	385.89
16	BX	375.51	379.9	370.35	371.38	365.4	356.46	349.53	353.98	353.13	356.42
17	BY	441.55	481.91	512.52	515.46	523.63	523.40	550.24	562.78	565.85	571.38
18	BY	574.39	579.23	582.39	600.03	600.45	611.99	617.28	639.95	643.97	640.65
19	BY	651.35	648.71	677.81	664.96	685.28	676.86	664.03	593.06	588.7	547.94
20	BY	530.64	505.2	501.21	486.11	484.73	480.07	460.51	459.91	445.42	431.26
21	BY	423.96	416.89	406.78	378.07	347.05	304.18	290.43	242.80	238.08	238.71
22	BY	233.34	225.26	226.56	215.42	225.3	213.74	213.23	195.37	187.2	187.2
23	BY	150.2	138.83	120.25	124.31	115.41	94.86	88.63	82.92	85.08	92.18
24	BY	92.91	104.32	104.64	101.45	114.21	121.11	122.14	112.91	115.82	123.27
25	BY	135.16	137.78	172.22	181.89	198.56	228.19	249.82	273.83	307.02	320.85
26	BY	358.76	370.7	385.48	393.09	396.82	395.52	405.43	411.9	420.9	429.53
27	HO	215									
28	HP	10	29.7	35.3	40.0	45.0	48.0				
29	HP	200	22.2	26.8	32.0	36.0	39.6				
30	HP	1000	15.9	20.7	25.8	30.0	33.4				
31	HP	5000	9.3	13.0	17.8	22.0	25.0				
32	HP	10000	7.1	10.3	14.4	18.5	21.0				
33	HP	20000	5.1	8.3	11.5	15.0	17.8				
34	SA	0	0	3							
35	SC	262	328								
36	ST	60	0.308	0	1						
37	PU	ON									
38	BN	BASIN4									
39	BX	352.83	348.27	349.06	345.02	347.40	339.30	323.65	325.81	317.65	314.81
40	BX	317.41	315.60	306.50	302.11	295.40	295.40	289.69	284.22	279.71	267.30
41	BX	258.73	236.42	226.97	213.99	161.34	123.53	111.32	96.22	102.62	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	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

HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

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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									

Page 1

PR 9.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 10:14:33
 *

 *
 * 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 PALUXY RIVER BASIN AT PR9
 CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	DURATION				
	6-HR	12-HR	24-HR	48-HR	72-HR
10.	29.70	35.30	40.00	45.00	48.00
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
250.	7.10	10.30	14.40	18.50	21.00
500.	5.10	8.30	11.50	15.00	17.80

STORM AREA (SQ. MI.)	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
250.	22.55	4.75	2.81	2.00	1.56	1.28	1.08	.94	.83	.74	.67	.61
500.	20.55	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61
1000.	18.97	4.79	2.82	2.00	1.56	1.27	1.08	.93	.82	.74	.67	.61
2500.	17.24	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
5000.	15.84	4.88	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
10000.	14.17	4.63	2.76	1.97	1.53	1.26	1.06	.92	.81	.73	.66	.60
25000.	12.69	4.41	2.69	1.94	1.52	1.25	1.06	.92	.81	.73	.66	.60
50000.	11.31	4.23	2.62	1.91	1.50	1.23	1.05	.91	.81	.72	.66	.60
100000.	9.64	4.00	2.54	1.87	1.48	1.22	1.04	.91	.81	.72	.66	.60
250000.	8.38	3.73	2.41	1.78	1.42	1.18	1.00	.88	.78	.70	.63	.58
500000.	7.02	3.38	2.22	1.66	1.33	1.10	.95	.83	.74	.66	.60	.55
1000000.	5.93	3.11	2.07	1.55	1.24	1.04	.89	.78	.69	.62	.57	.52
2000000.	5.15	2.92	1.96	1.48	1.19	.99	.85	.75	.66	.60	.54	.50

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BOUNDARY COORDINATES FOR CPNPP

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

SCALE = .0583 MILES PER COORDINATE UNIT

PR 9.0UT

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

FIXED STORM AREA SIZE AND VARYING ORIENTATION

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

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

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

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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		PR 9.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	.64	1.28	1.91	3.67	6.24	9.32	11.99	17.43	22.22	25.02	27.00	28.53	29.79	30.85	31.77	32.58	33.31	33.96	34.56										

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

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

DAY 2

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

DAY 3

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

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BOUNDARY COORDINATES FOR BASIN4

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

1

PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 700. SQ. MI., ORIENTATION = 175., PREFERRED ORIENTATION = 215.
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		STORM CENTER COORDINATES, X = PR 9.OUT 262.0, Y = 328.0												
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.	10.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
B 25.	25.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
C 50.	48.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
D 100.	86.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
E 175.	135.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
F 300.	207.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
G 450.	282.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
H 700.	354.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61	
I 1000.	399.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52	
J 1500.	411.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43	
K 2150.	411.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35	
L 3000.	411.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29	
M 4500.	411.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22	
N 6500.	411.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15	
O 10000.	411.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08	
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE DEPTH		17.25	4.77	2.79	1.98	1.53	1.25	1.06	.92	.81	.72	.65	.60	

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	2.78	4.41	6.42	8.86	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	1.32	2.56	4.08	6.09	8.52	14.44	17.43	18.84	19.94	20.94	21.84	22.64	23.34	23.96	24.53	25.04	
K	.41	.82	1.24	2.41	3.85	5.78	8.21	13.81	16.81	18.41	19.71	20.81	21.71	22.51	23.21	23.81	24.31	24.81	
L	.38	.76	1.12	2.17	3.52	5.28	7.61	12.81	15.81	17.41	18.71	19.81	20.71	21.51	22.21	22.81	23.31	23.81	
M	.35	.70	1.05	2.01	3.26	4.91	7.06	11.66	14.66	16.26	17.56	18.66	19.56	20.36	21.06	21.66	22.16	22.66	
N	.32	.64	.96	1.81	2.81	4.21	6.31	10.41	13.41	15.01	16.31	17.41	18.31	19.11	19.81	20.41	20.91	21.41	
O	.29	.58	.87	1.63	2.53	3.73	5.53	9.43	12.43	14.03	15.33	16.43	17.33	18.13	18.83	19.43	19.93	20.43	
P	.26	.52	.78	1.44	2.24	3.34	5.04	8.44	11.44	12.84	14.14	15.24	16.14	16.94	17.64	18.24	18.74	19.24	
Q	.23	.46	.69	1.28	2.08	3.18	4.78	7.78	10.78	12.18	13.48	14.58	15.48	16.28	16.98	17.58	18.08	18.58	
R	.20	.40	.60	1.12	1.72	2.52	3.72	6.72	9.72	11.12	12.42	13.52	14.42	15.22	15.92	16.52	17.02	17.52	
S	.18	.36	.54	1.04	1.56	2.36	3.56	6.56	9.56	10.96	12.26	13.36	14.26	15.06	15.76	16.36	16.86	17.36	
AVERAGE	.63	1.26	1.88	3.62	6.15	9.20	11.84	17.25	22.02	24.81	26.78	28.32	29.57	30.63	31.54	32.35	33.08	33.73	34.33

PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1				DAY 2				DAY 3			
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.10	.10		0700	.12	.72		1300	.15	1.47	
0200	.10	.20		0800	.12	.84		1400	.15	1.63	
0300	.10	.30		0900	.12	.96		1500	.15	1.78	
0400	.10	.40		1000	.12	1.08		1600	.15	1.93	
0500	.10	.50		1100	.12	1.20		1700	.15	2.09	
0600	.10	.60		1200	.12	1.32		1800	.15	2.24	
6-HR TOTAL	.60				.72				.92		
										1.25	
0100	.29	3.78		0700	.61	6.07		1300	1.42	11.65	
0200	.30	4.09		0800	.66	6.73		1400	2.11	13.76	
0300	.32	4.40		0900	.73	7.46		1500	3.06	16.81	
0400	.33	4.74		1000	.81	8.28		1600	6.15	22.96	
0500	.35	5.09		1100	.92	9.19		1700	2.64	25.60	
0600	.37	5.47		1200	1.04	10.23		1800	1.88	27.48	
6-HR TOTAL	1.98				4.77				17.25		
										2.79	
0100	.26	30.53		0700	.18	31.98		1300	.13	33.00	
0200	.26	30.79		0800	.18	32.16		1400	.13	33.14	
0300	.26	31.04		0900	.18	32.34		1500	.13	33.27	
0400	.26	31.30		1000	.18	32.51		1600	.13	33.40	
0500	.26	31.55		1100	.18	32.69		1700	.13	33.54	
0600	.26	31.81		1200	.18	32.87		1800	.13	33.67	
6-HR TOTAL	1.53				1.06				.81		
										.65	

SUBBASIN3										
PR 9.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 = 175., PREFERRED ORIENTATION = 215.											
		STORM CENTER COORDINATES, X = 262.0, Y = 328.0											
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	1.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	9.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	18.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	22.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	24.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	24.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	24.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	24.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	24.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	24.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	24.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	24.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.76	4.84	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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	1.38	2.63	4.41	6.42	8.86	12.81	17.03	18.73	20.06	21.14	22.05	22.84	23.54	24.16	24.73	25.24	
J	.44	.88	1.23	2.37	4.03	5.84	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	1.16	2.21	3.63	5.25	7.46	10.47	11.64	12.55	13.29	13.92	14.47	14.95	15.38	15.76	16.12		
L	.38	.76	1.09	2.04	3.32	4.84	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	1.01	1.85	3.01	4.26	5.96	6.58	6.99	7.42	7.81	8.17	8.50	8.82	9.13	9.43	9.70	9.97	
N	.33	.66	.96	1.72	2.86	4.03	5.69	6.78	7.39	7.90	8.39	8.82	9.20	9.53	9.83	10.13	10.43	10.70	
O	.31	.62	.90	1.61	2.66	3.82	5.38	6.57	7.17	7.68	8.17	8.66	9.15	9.64	10.13	10.62	11.11	11.60	
P	.29	.58	.86	1.52	2.50	3.66	5.12	6.31	6.91	7.42	7.91	8.40	8.89	9.38	9.87	10.36	10.85	11.34	
Q	.27	.54	.81	1.44	2.37	3.53	4.99	6.18	6.78	7.27	7.76	8.25	8.74	9.23	9.72	10.21	10.70	11.19	
R	.25	.50	.75	1.37	2.25	3.41	4.87	5.96	6.56	7.05	7.54	8.03	8.52	9.01	9.50	9.99	10.48	10.97	
S	.23	.46	.69	1.29	2.17	3.33	4.79	5.88	6.48	6.97	7.46	7.95	8.44	8.93	9.42	9.91	10.40	10.89	
AVERAGE	.67	1.33	1.98	3.82	6.46	9.59	12.28	17.76	22.60	25.42	27.43	28.99	30.26	31.33	32.26	33.08	33.82	34.48	35.09

PROBABLE MAXIMUM STORM FOR BASIN3												
DAY 1	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
	0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.48
	0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.69
	0300	.10	.30	0900	.12	.97	1500	.16	1.81	2100	.21	2.91
	0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
	0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
	0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL		.61			.73			.93			1.27	

		PR 9.OUT											
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	
	0100	.30	3.84	0700	.62	6.16	1300	1.43	11.82	1900	.57	28.71	
	0200	.31	4.15	0800	.67	6.83	1400	2.14	13.96	2000	.52	29.23	
	0300	.32	4.47	0900	.74	7.57	1500	3.13	17.09	2100	.48	29.71	
	0400	.34	4.81	1000	.83	8.40	1600	6.46	23.55	2200	.44	30.16	
	0500	.36	5.17	1100	.93	9.33	1700	2.69	26.24	2300	.42	30.57	
	0600	.38	5.55	1200	1.05	10.39	1800	1.91	28.14	2400	.40	30.97	
6-HR TOTAL	2.00			4.84			17.76			2.83			

DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	
	0100	.26	31.23	0700	.18	32.71	1300	.14	33.74	1900	.11	34.53	
	0200	.26	31.49	0800	.18	32.89	1400	.14	33.88	2000	.11	34.64	
	0300	.26	31.75	0900	.18	33.06	1500	.14	34.01	2100	.11	34.75	
	0400	.26	32.01	1000	.18	33.24	1600	.14	34.15	2200	.11	34.87	
	0500	.26	32.27	1100	.18	33.42	1700	.14	34.29	2300	.11	34.98	
	0600	.26	32.53	1200	.18	33.60	1800	.14	34.42	2400	.11	35.09	
6-HR TOTAL	1.56			1.07			.82			.66			

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SUBBASIN2

		BOUNDARY COORDINATES FOR				BASIN2							
X	Y	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5	308.5	308.5
		181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4	116.4	116.4
X	Y	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6	364.6	364.6
		121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5	170.5	170.5
X	Y	367.2											
		172.2											

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

		PROBABLE MAXIMUM STORM FOR BASIN2 STORM AREA = 700. SQ. MI., ORIENTATION = 175., STORM CENTER COORDINATES, X = 262.0, Y = 328.0											
ISOHYET AREA (SQ. MI.)	AREA WITHIN BASIN (SQ. MI.)	1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	24.13	5.53	2.94	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
B 25.	0.	22.75	5.31	2.91	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
C 50.	0.	21.37	5.17	2.87	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
D 100.	0.	19.82	5.02	2.85	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
E 175.	2.	18.44	4.88	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
F 300.	9.	16.89	4.78	2.82	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
G 450.	10.	15.86	4.69	2.81	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
H 700.	10.	14.48	4.59	2.80	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61
I 1000.	10.	10.86	3.77	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.52
J 1500.	10.	8.27	3.16	1.99	1.41	1.10	.90	.76	.66	.58	.52	.47	.43
K 2150.	10.	6.21	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35
L 3000.	10.	4.65	2.13	1.33	.94	.73	.60	.50	.44	.39	.35	.31	.29
M 4500.	10.	3.10	1.55	1.05	.74	.58	.47	.40	.34	.30	.27	.25	.22
N 6500.	10.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15
O 10000.	10.	.69	.43	.37	.26	.20	.17	.14	.12	.11	.10	.09	.08
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		17.62	4.83	2.83	2.00	1.56	1.27	1.07	.93	.82	.73	.66	.61

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	.49	1.03	1.46	2.83	4.72	7.01	9.14	13.24	17.43	19.87	21.87	23.43	24.70	25.84	26.84	27.71	28.48	29.16	29.75	
J	.44	.98	1.32	2.58	4.31	6.42	8.44	12.14	15.84	18.43	20.06	21.43	22.55	23.55	24.43	25.21	25.90	26.51	27.04	
K	.41	.91	1.22	2.38	4.05	6.12	8.14	11.64	14.84	17.32	19.06	20.54	21.76	22.84	23.81	24.68	25.46	26.16	26.79	
L	.38	.86	1.23	2.47	3.93	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	.80	1.15	2.31	3.61	1.80	2.76	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	.76	1.06	2.13	3.46	1.66	2.66	2.96	4.72	3.39	3.90	4.29	4.62	4.89	5.13	5.34	5.53	5.70	5.85	
O	.31	.72	1.03	2.07	3.13	1.66	2.38	2.69	4.12	1.49	1.75	1.95	2.12	2.26	2.38	2.49	2.58	2.67	2.75	
P	.30	.70	1.00	2.00	3.00	1.60	2.00	2.00	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Q	.30	.70	1.00	2.00	3.00	1.60	2.00	2.00	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

Page 7

1

DAY 1

6-HR TOTAL

6-HR TOTAL

1

BOUNDARY COORDINATES FOR BASIN1

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

1.

PR 9.OUT

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.77	5.32	8.98	13.23	16.90	24.13	29.66	32.61	34.61	36.17	37.44	38.51	39.44	40.26	41.00	41.66	42.27
B	.87	1.74	2.59	4.99	8.42	12.43	15.89	22.75	28.07	30.97	32.98	34.54	35.81	36.88	37.81	38.63	39.37	40.03	40.64
C	.82	1.63	2.42	4.66	7.88	11.64	14.90	21.37	26.54	29.42	31.42	32.98	34.25	35.32	36.25	37.07	37.81	38.47	39.08
D	.75	1.50	2.23	4.30	7.27	10.76	13.77	19.82	24.85	27.70	29.70	31.26	32.53	33.60	34.53	35.35	36.09	36.75	37.36
E	.70	1.39	2.07	3.98	6.73	9.98	12.78	18.44	23.32	26.15	28.16	29.71	30.99	32.06	32.99	33.81	34.55	35.21	35.82
F	.63	1.26	1.88	3.62	6.12	9.10	11.65	16.89	21.68	24.50	26.50	28.06	29.33	30.40	31.33	32.15	32.89	33.55	34.16
G	.59	1.18	1.76	3.38	5.72	8.51	10.91	15.86	20.54	23.36	25.36	26.92	28.19	29.26	30.19	31.02	31.75	32.41	33.02
H	.54	1.07	1.59	3.06	5.20	7.74	9.91	14.48	19.07	21.87	23.88	25.43	26.70	27.78	28.71	29.53	30.26	30.93	31.53
I	.49	.98	1.43	2.75	4.41	6.42	8.62	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	2.45	3.93	5.62	7.54	11.04	14.84	17.04	18.84	20.39	21.66	22.73	23.66	24.48	25.21	25.86	26.46
K	.41	.82	1.19	2.23	3.53	5.12	6.93	10.12	13.42	15.42	16.97	18.24	19.31	20.24	21.07	21.80	22.45	23.05	23.65
L	.38	.76	1.11	2.07	3.23	4.65	6.38	9.37	12.27	13.97	15.42	16.69	17.76	18.70	19.53	20.26	20.91	21.51	22.11
M	.35	.70	1.03	1.91	2.91	4.12	5.65	8.34	10.94	12.44	13.71	14.88	15.95	16.89	17.72	18.45	19.09	19.69	20.29
N	.33	.66	.99	1.81	2.67	3.91	5.38	7.77	10.17	11.47	12.64	13.71	14.66	15.50	16.23	16.88	17.48	18.08	18.68
O	.31	.62	.93	1.71	2.52	3.71	5.12	7.31	9.51	10.71	11.88	12.95	13.90	14.74	15.47	16.12	16.72	17.32	17.92
P	.30	.60	.90	1.65	2.40	3.60	5.00	7.10	9.30	10.50	11.67	12.74	13.69	14.53	15.26	15.91	16.51	17.11	17.71
Q	.29	.58	.87	1.60	2.35	3.52	4.90	6.90	9.10	10.30	11.47	12.54	13.49	14.33	15.06	15.71	16.31	16.91	17.51
R	.28	.56	.84	1.56	2.30	3.45	4.80	6.75	8.90	10.10	11.27	12.34	13.29	14.13	14.86	15.51	16.11	16.71	17.31
S	.27	.54	.81	1.52	2.25	3.38	4.70	6.60	8.70	9.90	11.07	12.14	13.09	13.93	14.66	15.31	15.91	16.51	17.11
AVERAGE	.69	1.38	2.06	3.96	6.71	9.94	12.73	18.38	23.28	26.11	28.12	29.67	30.94	32.02	32.95	33.77	34.50	35.17	35.77

1

PROBABLE MAXIMUM STORM FOR BASIN1

DAY 1

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

DAY 2

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

DAY 3

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

1

1

PROBABLE MAXIMUM STORM (HMR52)

NOVEMBER 1982

REVISED APRIL 91

RUN DATE 06/25/2008

TIME 10:15:03

PR 10.OUT

U.S. ARMY CORPS OF ENGINEERS

THE HYDROLOGIC ENGINEERING CENTER

609 SECOND STREET

DAVIS, CALIFORNIA 95616

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

1

HEC PROBABLE MAXIMUM STORM (HMR52) INPUT DATA

PAGE 1

LINE

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

1

ID

HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION

2

ID

ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008

3

ID

STORM CENTER WITHIN PALUXY RIVER BASIN AT PR10

4

BN

CPNPP

5

ID

CALCULATE STORM OVER ENTIRE AREA

6

BS

.05827

7

BX

352.83

348.27

349.06

345.02

347.40

339.30

323.65

325.81

317.65

314.81

8

BX

317.41

315.60

306.50

302.11

295.40

295.40

289.69

284.22

279.71

267.30

9

BX

258.73

236.42

226.97

213.99

161.34

123.53

111.32

96.22

102.62

85.17

10

BX

76.93

85.92

75.56

77.81

82.63

84.8

66.09

56.79

57.55

49.52

11

BX

51.04

40.8

40.05

54.76

65.82

47.95

62.30

35.02

36.56

63.69

12

BX

73.84

72.72

84.03

121.92

126.58

133.09

136.39

145.99

138.58

143.21

13

BX

127.17

137.74

151.01

157.40

164.07

168.68

175.89

172.76

198.29

200.78

14

BX

217.93

233.49

243.97

277.06

294.55

315.41

331.83

340.98

349.67

353.27

15

BX

349.84

334.39

367.19

367.42

386.16

392.28

377.46

398.65

380.84

385.89

16

BX

375.51

379.9

370.35

371.38

365.4

356.46

349.53

353.98

353.13

356.42

17

BY

441.55

481.91

512.52

515.46

523.63

523.40

550.24

562.78

565.85

571.38

18

BY

574.39

579.23

582.39

600.03

600.45

611.99

617.28

639.95

643.97

640.65

19

BY

651.35

648.71

677.81

664.96

685.28

676.86

664.03

593.06

588.7

547.94

20

BY

530.64

505.2

501.21

486.11

484.73

480.07

460.51

459.91

445.42

431.26

21

BY

423.96

416.89

406.78

378.07

347.05

304.18

290.43

242.80

238.08

238.71

22

BY

233.34

225.26

226.56

215.42

225.3

225.3

213.74

213.23

195.37

187.2

23

BY

150.2

138.83

120.25

124.31

115.41

94.86

88.63

82.92

85.08

92.18

24

BY

92.91

104.32

104.64

101.45

114.21

121.11

122.14

112.91

115.82

123.27

25

BY

135.16

137.78

172.22

181.89

198.56

228.19

249.82

273.83

307.02

320.85

26

BY

358.76

370.7

385.48

393.09

396.82

395.52

405.43

411.9

420.9

429.53

27

HO

215

28

HP

10

29.7

35.3

40.0

45.0

48.0

29

HP

200

22.2

26.8

32.0

36.0

39.6

30

HP

1000

15.9

20.7

25.8

30.0

33.4

31

HP

5000

9.3

13.0

17.8

22.0

25.0

32

HP

10000

7.1

10.3

14.4

18.5

21.0

33

HP

20000

5.1

8.3

11.5

15.0

17.8

34

SA

0

0

3

35

SC

213

321

36

ST

60

0.308

0

1

37

PU

ON

38

BN

BASIN4

39

BX

352.83

348.27

349.06

345.02

347.40

339.30

323.65

325.81

317.65

314.81

40

BX

317.41

315.60

306.50

302.11

295.40

295.40

289.69

284.22

279.71

267.30

41

BX

258.73

236.42

226.97

213.99

161.34

123.53

111.32

96.22

102.62

97.35

42

BX

81.49

85.17

76.93

77.81

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

36.0

46.93

55.49

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

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

135.27

153.31

156.62

153.56

134.76

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

BX

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

PR 10.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 10:15:03
 *

 *
 * 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 PALUXY RIVER BASIN AT PR10
 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 10.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	ORIENTATION	BASIN-AVERAGED INCREMENTAL DEPTHS FOR 6-HR PERIODS										SUM OF DEPTHS FOR 3 PEAK 6-HR PERIODS	
10.	174.	8.98	1.65	.92	.64	.49	.40	.33	.29	.25	.23	.20	.19
25.	174.	11.73	2.45	1.41	.99	.76	.62	.52	.45	.40	.35	.32	.29
50.	174.	13.80	3.03	1.78	1.25	.97	.79	.67	.58	.51	.45	.41	.37
100.	174.	15.46	3.54	2.13	1.51	1.17	.95	.81	.70	.62	.55	.50	.45
175.	174.	16.72	3.90	2.38	1.70	1.32	1.08	.92	.79	.70	.63	.57	.52
300.	174.	17.60	4.33	2.62	1.87	1.45	1.19	1.01	.87	.77	.69	.62	.57
450.	174.	18.02	4.62	2.76	1.96	1.52	1.24	1.05	.91	.80	.72	.65	.59
700.	174.	17.75	4.85	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.60
1000.	174.	17.26	4.98	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.60
1500.	174.	16.67	4.81	2.78	1.96	1.53	1.25	1.06	.92	.81	.73	.66	.60
2150.	174.	16.09	4.63	2.71	1.93	1.51	1.24	1.05	.91	.81	.72	.66	.60
3000.	174.	15.48	4.50	2.65	1.89	1.49	1.22	1.04	.91	.80	.72	.65	.60
4500.	174.	14.60	4.32	2.58	1.85	1.47	1.21	1.03	.90	.80	.72	.65	.60
6500.	174.	13.97	4.07	2.45	1.77	1.40	1.17	1.00	.87	.77	.69	.63	.58
10000.	174.	13.06	3.76	2.27	1.65	1.32	1.10	.94	.82	.73	.66	.60	.55
15000.	174.	12.19	3.52	2.12	1.54	1.23	1.03	.88	.77	.69	.62	.56	.52
20000.	174.	11.37	3.33	2.01	1.47	1.18	.98	.84	.74	.66	.59	.54	.50

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

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

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

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

Page 3

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

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

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

DAY 2

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

DAY 3

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

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 = 174., PREFERRED ORIENTATION = 215.

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		PR 10.0UT STORM CENTER COORDINATES, X = 213.0, Y = 321.0												
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.	10.	24.10	5.52	2.94	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
B 25.	25.	22.73	5.31	2.90	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
C 50.	50.	21.35	5.16	2.87	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
D 100.	100.	19.80	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
E 175.	168.	18.42	4.87	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
F 300.	249.	16.87	4.78	2.82	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
G 450.	329.	15.84	4.68	2.81	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
H 700.	407.	14.46	4.58	2.80	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
I 1000.	411.	10.85	3.76	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.51	
J 1500.	411.	8.26	3.16	1.99	1.41	1.10	.89	.76	.66	.58	.52	.47	.43	
K 2150.	411.	6.20	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35	
L 3000.	411.	4.65	2.12	1.33	.94	.73	.60	.50	.44	.39	.34	.31	.28	
M 4500.	411.	3.10	1.54	1.04	.74	.57	.47	.40	.34	.30	.27	.25	.22	
N 6500.	411.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15	
O 10000.	411.	.69	.43	.37	.26	.20	.16	.14	.12	.11	.10	.09	.08	
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE DEPTH		18.09	4.88	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
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	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98
H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.49	.98	1.46	2.81	4.64	6.40	8.41	10.85	14.61	17.01	18.71	20.03	21.11	22.02	22.81	23.51	24.13	24.70	25.21
J	.44	.88	1.32	2.64	4.28	6.32	8.48	10.86	14.42	16.41	18.43	19.52	20.82	21.87	22.78	23.58	24.19	24.79	25.29
K	.41	.82	1.23	2.46	4.03	5.96	8.20	10.80	14.10	16.63	18.53	19.78	21.03	22.14	23.14	23.91	24.45	24.93	25.36
L	.38	.76	1.15	2.30	3.76	5.56	7.68	10.16	13.52	15.63	17.37	18.77	19.97	21.07	22.07	22.84	23.38	23.86	24.30
M	.35	.70	1.05	2.10	3.50	5.25	7.30	9.60	12.60	14.64	16.39	17.81	18.94	19.97	20.90	21.73	22.47	23.11	23.65
N	.33	.66	.99	1.98	3.30	4.95	6.75	9.90	13.80	15.80	17.35	18.62	19.69	20.62	21.45	22.19	22.85	23.45	24.00
O	.31	.62	.93	1.86	3.10	4.65	6.45	9.60	13.20	15.20	16.75	17.92	18.99	19.92	20.75	21.49	22.15	22.75	23.30
P	.30	.60	.90	1.80	3.00	4.50	6.30	9.40	13.00	15.00	16.50	17.67	18.74	19.67	20.50	21.24	21.90	22.50	23.05
Q	.30	.60	.90	1.80	3.00	4.50	6.30	9.40	13.00	15.00	16.50	17.67	18.74	19.67	20.50	21.24	21.90	22.50	23.05
R	.30	.60	.90	1.80	3.00	4.50	6.30	9.40	13.00	15.00	16.50	17.67	18.74	19.67	20.50	21.24	21.90	22.50	23.05
S	.30	.60	.90	1.80	3.00	4.50	6.30	9.40	13.00	15.00	16.50	17.67	18.74	19.67	20.50	21.24	21.90	22.50	23.05
AVERAGE	.68	1.36	2.02	3.89	6.59	9.78	12.52	18.09	22.97	25.80	27.80	29.36	30.62	31.70	32.63	33.44	34.18	34.84	35.45

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	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48			
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69			
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90			
0400	.10	.40	1000	.12	1.09	1600	.15	1.96	2200	.21	3.11			
0500	.10	.50	1100	.12	1.22	1700	.15	2.11	2300	.21	3.32			
0600	.10	.61	1200	.12	1.34	1800	.15	2.27	2400	.21	3.54			
6-HR TOTAL	.61		.73			.93			1.27					
DAY 2														
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.30	3.83	0700	.62	6.16	1300	1.46	11.87	1900	.57	29.08			
0200	.31	4.14	0800	.67	6.83	1400	2.18	14.05	2000	.52	29.60			
0300	.32	4.46	0900	.75	7.58	1500	3.19	17.23	2100	.48	30.08			
0400	.34	4.80	1000	.83	8.41	1600	6.59	23.82	2200	.45	30.52			
0500	.36	5.16	1100	.94	9.35	1700	2.74	26.57	2300	.42	30.94			
0600	.38	5.54	1200	1.06	10.41	1800	1.94	28.51	2400	.40	31.34			
6-HR TOTAL	2.00		4.88			18.09			2.83					
DAY 3														
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	31.60	0700	.18	33.07	1300	.14	34.10	1900	.11	34.89			
0200	.26	31.86	0800	.18	33.25	1400	.14	34.24	2000	.11	35.00			
0300	.26	32.11	0900	.18	33.43	1500	.14	34.37	2100	.11	35.11			
0400	.26	32.37	1000	.18	33.61	1600	.14	34.51	2200	.11	35.22			
0500	.26	32.63	1100	.18	33.78	1700	.14	34.65	2300	.11	35.34			
0600	.26	32.89	1200	.18	33.96	1800	.14	34.78	2400	.11	35.45			
6-HR TOTAL	1.55		1.07			.82			.66					

SUBBASIN3										
PR 10.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 = 174., PREFERRED ORIENTATION = 215. STORM CENTER COORDINATES, X = 213.0, Y = 321.0														
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.	24.10	5.52	2.94	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
B 25.	0.	22.73	5.31	2.90	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
C 50.	0.	21.35	5.16	2.87	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
D 100.	0.	19.80	5.02	2.85	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
E 175.	5.	18.42	4.87	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
F 300.	23.	16.87	4.78	2.82	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
G 450.	24.	15.84	4.68	2.81	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
H 700.	24.	14.46	4.58	2.80	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	
I 1000.	24.	10.85	3.76	2.40	1.70	1.32	1.08	.91	.79	.70	.62	.56	.51	
J 1500.	24.	8.26	3.16	1.99	1.41	1.10	.89	.76	.66	.58	.52	.47	.43	
K 2150.	24.	6.20	2.61	1.65	1.17	.91	.74	.63	.54	.48	.43	.39	.35	
L 3000.	24.	4.65	2.12	1.33	.94	.73	.60	.50	.44	.39	.34	.31	.28	
M 4500.	24.	3.10	1.54	1.04	.74	.57	.47	.40	.34	.30	.27	.25	.22	
N 6500.	24.	1.72	.94	.72	.51	.40	.32	.27	.24	.21	.19	.17	.15	
O 10000.	24.	.69	.43	.37	.26	.20	.16	.14	.12	.11	.10	.09	.08	
P 15000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Q 25000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
R 40000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S 60000.	24.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE DEPTH		17.78	4.84	2.83	2.00	1.55	1.27	1.07	.93	.82	.73	.66	.61	

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION																			
ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98
H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.49	.98	1.46	2.76	4.40	6.41	8.85	14.61	17.01	18.71	20.03	21.11	22.02	22.81	23.51	24.13	24.70	25.21	
J	.44	.88	1.32	2.43	3.92	5.63	7.84	12.81	15.41	17.11	18.43	19.52	20.43	21.18	21.88	22.45	22.98	23.48	
K	.41	.81	1.21	2.23	3.63	5.25	7.46	11.42	13.41	14.83	15.92	16.82	17.57	18.23	18.81	19.32	19.79	20.22	
L	.38	.76	1.12	2.07	3.32	4.84	6.85	10.42	12.41	13.83	14.92	15.82	16.57	17.23	17.81	18.32	18.79	19.22	
M	.35	.70	1.05	1.91	3.12	4.64	6.65	10.00	12.00	13.42	14.51	15.41	16.16	16.82	17.39	17.91	18.38	18.81	
N	.33	.66	.99	1.83	2.97	4.45	6.46	9.72	11.72	13.14	14.23	15.13	15.88	16.54	17.11	17.61	18.08	18.51	
O	.31	.62	.93	1.76	2.86	4.39	6.40	9.66	11.66	13.08	14.17	15.07	15.82	16.48	17.05	17.55	18.02	18.45	
P	.30	.60	.90	1.72	2.82	4.34	6.35	9.60	11.60	13.02	14.11	15.01	15.76	16.42	16.99	17.50	17.97	18.40	
Q	.29	.58	.87	1.68	2.78	4.30	6.31	9.56	11.56	12.98	14.07	14.97	15.72	16.38	16.95	17.46	17.93	18.36	
R	.28	.56	.84	1.64	2.74	4.26	6.27	9.52	11.52	12.94	14.03	14.93	15.68	16.34	16.91	17.42	17.89	18.32	
S	.27	.54	.81	1.60	2.70	4.22	6.23	9.48	11.48	12.90	14.00	14.90	15.65	16.31	16.88	17.39	17.86	18.29	
AVERAGE	.67	1.34	1.99	3.83	6.47	9.61	12.30	17.78	22.62	25.45	27.45	29.00	30.27	31.35	32.28	33.09	33.83	34.49	35.10

PROBABLE MAXIMUM STORM FOR BASIN3											
DAY 1											
TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL	TIME	PRECIPITATION INCR	PRECIPITATION TOTAL
0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
0400	.10	.40	1000	.12	1.09	1600	.15	1.96	2200	.21	3.11
0500	.10	.50	1100	.12	1.22	1700	.15	2.11	2300	.21	3.33
0600	.10	.61	1200	.12	1.34	1800	.15	2.27	2400	.21	3.54
6-HR TOTAL	.61			.73			.93			1.27	

DAY 2			PR 10.OUT								
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.30	3.83	0700	.62	6.16	1300	1.44	11.81	1900	.57	28.73
0200	.31	4.14	0800	.67	6.83	1400	2.14	13.95	2000	.52	29.25
0300	.32	4.46	0900	.74	7.57	1500	3.13	17.09	2100	.48	29.73
0400	.34	4.80	1000	.83	8.39	1600	6.47	23.56	2200	.44	30.17
0500	.36	5.16	1100	.93	9.32	1700	2.69	26.25	2300	.42	30.59
0600	.38	5.54	1200	1.05	10.38	1800	1.91	28.16	2400	.40	30.99
6-HR TOTAL		2.00	4.84			17.78			2.83		
DAY 3											
TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.26	31.25	0700	.18	32.72	1300	.14	33.75	1900	.11	34.54
0200	.26	31.51	0800	.18	32.90	1400	.14	33.89	2000	.11	34.66
0300	.26	31.76	0900	.18	33.08	1500	.14	34.02	2100	.11	34.77
0400	.26	32.02	1000	.18	33.26	1600	.14	34.16	2200	.11	34.88
0500	.26	32.28	1100	.18	33.44	1700	.14	34.30	2300	.11	34.99
0600	.26	32.54	1200	.18	33.61	1800	.14	34.43	2400	.11	35.10
6-HR TOTAL		1.55	1.07			.82			.66		

DAY 3																																			
TIME			PRECIPITATION			TIME			PRECIPITATION			TIME			PRECIPITATION			TIME			PRECIPITATION														
			INCR			TOTAL						INCR			TOTAL						INCR			TOTAL											
0100			.26			31.25			0700			.18			32.72			1300			.14			33.75			1900			.11			34.54		
0200			.26			31.51			0800			.18			32.90			1400			.14			33.89			2000			.11			34.66		
0300			.26			31.76			0900			.18			33.08			1500			.14			34.02			2100			.11			34.77		
0400			.26			32.02			1000			.18			33.26			1600			.14			34.16			2200			.11			34.88		
0500			.26			32.28			1100			.18			33.44			1700			.14			34.30			2300			.11			34.99		
0600			.26			32.54			1200			.18			33.61			1800			.14			34.43			2400			.11			35.10		
6-HR TOTAL			1.55						1.07									.82									.66								

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

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

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

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98
H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.49	.98	.56	1.12	2.24	4.40	6.41	10.85	14.61	17.01	18.71	20.03	21.11	22.02	22.81	23.51	24.13	24.70	25.21
J	.44	.88	.43	.85	1.69	3.32	4.84	8.26	11.42	13.41	14.83	15.92	16.82	17.57	18.23	18.81	19.32	19.79	20.22
K	.41	.81	.32	.63	1.25	2.46	3.59	6.20	8.80	10.45	11.63	12.53	13.28	13.91	14.45	14.93	15.36	15.75	16.10
L	.38	.76	.23	.47	.93	1.83	2.67	4.65	6.77	8.10	9.04	9.77	10.37	10.87	11.31	11.69	12.04	12.35	12.63
M	.35	.70	.21	.41	.81	1.20	1.76	3.10	4.64	5.69	6.43	7.00	7.47	7.87	8.21	8.52	8.79	9.03	9.26
N	.33	.66	.20	.38	.76	.96	1.72	2.66	3.38	3.89	4.29	4.61	4.89	5.12	5.33	5.52	5.69	5.84	
O	.31	.62	.19	.36	.72	.86	.88	.69	1.12	1.49	1.75	1.95	2.12	2.26	2.38	2.48	2.58	2.67	2.74
P	.30	.60	.18	.35	.70	.84	.84	.67	1.10	1.46	1.72	1.91	2.08	2.21	2.31	2.40	2.48	2.56	
Q	.30	.60	.18	.35	.70	.84	.84	.67	1.10	1.46	1.72	1.91	2.08	2.21	2.31	2.40	2.48	2.56	

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		PR 10.0UT																		
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		.59	1.18	1.76	3.39	5.75	8.55	10.95	15.91	20.61	23.42	25.42	26.97	28.24	29.32	30.24	31.06	31.80	32.46	33.07

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PROBABLE MAXIMUM STORM FOR BASIN2

DAY 1

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

DAY 2

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

DAY 3

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

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SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

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

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

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PR 10.OUT

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.93	1.86	2.76	5.32	8.97	13.21	16.88	24.10	29.63	32.57	34.57	36.13	37.39	38.47	39.40	40.22	40.95	41.61	42.22
B	.87	1.74	2.59	4.98	8.41	12.42	15.88	22.73	28.03	30.94	32.94	34.49	35.76	36.84	37.77	38.59	39.32	39.98	40.59
C	.82	1.63	2.42	4.66	7.87	11.63	14.88	21.35	26.51	29.38	31.38	32.94	34.21	35.28	36.21	37.03	37.76	38.43	39.03
D	.75	1.50	2.23	4.29	7.26	10.75	13.75	19.80	24.82	27.66	29.67	31.22	32.49	33.56	34.49	35.31	36.04	36.71	37.31
E	.70	1.39	2.07	3.98	6.72	9.97	12.76	18.42	23.30	26.12	28.13	29.68	30.95	32.02	32.95	33.77	34.50	35.17	35.77
F	.63	1.26	1.88	3.61	6.12	9.09	11.64	16.87	21.65	24.47	26.47	28.02	29.29	30.37	31.30	32.12	32.85	33.51	34.12
G	.59	1.18	1.75	3.37	5.72	8.50	10.89	15.84	20.52	23.33	25.33	26.89	28.16	29.23	30.16	30.98	31.71	32.38	32.98
H	.54	1.07	1.59	3.06	5.19	7.73	9.90	14.46	19.05	21.85	23.85	25.40	26.67	27.74	28.67	29.49	30.23	30.89	31.50
I	.49	.98	1.43	2.74	4.40	6.41	8.85	12.81	17.01	19.71	21.71	23.03	24.11	25.02	25.81	26.51	27.13	27.70	28.21
J	.44	.88	1.28	2.43	3.85	5.69	7.92	11.42	15.41	17.81	19.81	21.12	22.11	22.92	23.61	24.21	24.77	25.29	25.77
K	.41	.82	1.21	2.23	3.53	5.25	7.36	10.45	14.04	16.04	17.65	18.96	19.95	20.76	21.47	22.08	22.60	23.08	23.53
L	.38	.76	1.13	2.07	3.23	4.83	6.77	9.80	13.00	15.00	16.61	17.92	18.91	19.72	20.43	21.04	21.56	22.04	22.49
M	.35	.70	1.05	1.91	2.91	4.33	6.25	9.28	12.48	14.48	16.09	17.40	18.40	19.21	19.92	20.53	21.05	21.53	21.98
N	.33	.66	1.00	1.80	2.70	4.05	5.90	8.85	11.80	13.80	15.41	16.72	17.72	18.53	19.24	19.85	20.37	20.85	21.30
O	.31	.62	.93	1.68	2.52	3.78	5.61	8.41	11.21	13.21	14.82	16.13	17.13	17.94	18.65	19.26	19.78	20.26	20.71
P	.30	.60	.90	1.60	2.40	3.60	5.40	8.10	10.90	12.90	14.51	15.82	16.82	17.63	18.34	18.95	19.47	19.95	20.40
Q	.30	.60	.90	1.60	2.40	3.60	5.40	8.10	10.90	12.90	14.51	15.82	16.82	17.63	18.34	18.95	19.47	19.95	20.40
R	.30	.60	.90	1.60	2.40	3.60	5.40	8.10	10.90	12.90	14.51	15.82	16.82	17.63	18.34	18.95	19.47	19.95	20.40
S	.30	.60	.90	1.60	2.40	3.60	5.40	8.10	10.90	12.90	14.51	15.82	16.82	17.63	18.34	18.95	19.47	19.95	20.40
AVERAGE	.58	1.15	1.72	3.31	5.62	8.40	10.80	15.75	20.41	23.21	25.20	26.74	28.00	29.07	29.99	30.81	31.54	32.19	32.80

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	.72		1300	.15	1.48		1900	.21	2.46	
0200	.10	.20		0800	.12	.84		1400	.15	1.64		2000	.21	2.67	
0300	.10	.30		0900	.12	.97		1500	.15	1.79		2100	.21	2.89	
0400	.10	.40		1000	.12	1.09		1600	.15	1.95		2200	.21	3.10	
0500	.10	.50		1100	.12	1.21		1700	.15	2.10		2300	.21	3.31	
0600	.10	.60		1200	.12	1.33		1800	.15	2.25		2400	.21	3.52	
6-HR TOTAL	.60				.73				.92				1.26		
DAY 2															
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.29	3.81		0700	.60	6.11		1300	1.32	11.48		1900	.56	26.48	
0200	.31	4.12		0800	.65	6.76		1400	1.92	13.40		2000	.51	26.99	
0300	.32	4.44		0900	.72	7.48		1500	2.78	16.19		2100	.47	27.46	
0400	.34	4.77		1000	.80	8.28		1600	5.62	21.81		2200	.44	27.90	
0500	.36	5.13		1100	.89	9.17		1700	2.39	24.20		2300	.41	28.32	
0600	.38	5.51		1200	1.00	10.16		1800	1.72	25.92		2400	.40	28.71	
6-HR TOTAL	1.99			4.66				15.75				2.79			
DAY 3															
TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL		TIME	PRECIPITATION INCR	TOTAL	
0100	.26	28.97		0700	.18	30.43		1300	.14	31.46		1900	.11	32.25	
0200	.26	29.23		0800	.18	30.61		1400	.14	31.59		2000	.11	32.36	
0300	.26	29.48		0900	.18	30.79		1500	.14	31.73		2100	.11	32.47	
0400	.26	29.74		1000	.18	30.97		1600	.14	31.87		2200	.11	32.58	
0500	.26	30.00		1100	.18	31.15		1700	.14	32.00		2300	.11	32.69	
0600	.26	30.26		1200	.18	31.32		1800	.14	32.14		2400	.11	32.80	
6-HR TOTAL	1.54			1.07				.81				.66			

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1*****
*
* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
*
* RUN DATE 08/05/2009 TIME 14:32:34
*
*****
PR 11.OUT
*****
*
* 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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1
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

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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 PALUXY RIVER BASIN AT PR2

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4 BN CPNPP
5 ID CALCULATE STORM OVER ENTIRE AREA
6 BS .05827

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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	213.74	213.23	195.37	187.2	187.2
23	BY	150.2	138.83	120.25	124.31	115.41	94.86	88.63	82.92	85.08	92.18
24	BY	92.91	104.32	104.64	101.45	114.21	121.11	122.14	112.91	115.82	123.27
25	BY	135.16	137.78	172.22	181.89	198.56	228.19	249.82	273.83	307.02	320.85
26	BY	358.76	370.7	385.48	393.09	396.82	395.52	405.43	411.9	420.9	429.53
27	HO	215									
28	HP	10	29.7	35.3	40.0	45.0	48.0				
29	HP	200	22.2	26.8	32.0	36.0	39.6				
30	HP	1000	15.9	20.7	25.8	30.0	33.4				
31	HP	5000	9.3	13.0	17.8	22.0	25.0				
32	HP	10000	7.1	10.3	14.4	18.5	21.0				
33	HP	20000	5.1	8.3	11.5	15.0	17.8				
34	SA	0	0	3							
35	SC	263	156								
36	ST	60	0.308	0	1						
37	PU	ON									

38	BN	BASIN4									
39	BX	352.83	348.27	349.06	345.02	347.40	339.30	323.65	325.81	317.65	314.81
40	BX	317.41	315.60	306.50	302.11	295.40	295.40	289.69	284.22	279.71	267.30
41	BX	258.73	236.42	226.97	213.99	161.34	123.53	111.32	96.22	102.62	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	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								

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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

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

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PR 11.OUT

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 08/05/2009 TIME 14:32:34
 *

 *
 * 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 PALUXY RIVER BASIN AT PRZ
 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

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

FIXED STORM AREA SIZE AND VARYING ORIENTATION

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

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STORM AREA = 1000. SQ. MI., PROBABLE MAXIMUM STORM FOR CPNPP
 STORM CENTER COORDINATES, X = 263.0, Y = 156.0, ORIENTATION = 175., 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.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	22.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	39.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	70.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	114.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	183.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	256.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	355.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	450.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	509.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	509.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	509.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	509.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	509.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	509.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	509.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.83	4.83	2.81	1.99	1.54	1.26	1.06	.92	.81	.72	.66	.60

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	34.13	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 11.0UT																											
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	.54	1.07	1.60	3.08	5.29	8.13	10.61	15.83	20.67	23.48	25.47	27.01	28.26	29.32	30.24	31.05	31.77	32.43	33.03										

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

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

DAY 2

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

DAY 3

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

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BOUNDARY COORDINATES FOR BASIN4

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

1

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

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		PR 11.0UT STORM CENTER COORDINATES, X = 263.0, Y = 156.0											
ISOHYET AREA (SQ.MI.)	AREA WITHIN BASIN (SQ.MI.)	1	2	3	DEPTHS (INCHES) 4	5	FOR 6-HOUR 6	INCREMENTS 7	OF PMS 8	9	10	11	12
A 10.	5.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	11.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	22.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	43.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	72.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	119.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	172.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	256.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	352.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	411.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	411.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	411.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	411.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	411.	1.90	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19
O 10000.	411.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		15.32	4.78	2.80	1.98	1.53	1.25	1.06	.92	.81	.72	.65	.60

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	.52	1.03	1.53	2.96	5.08	7.84	10.24	15.32	20.10	22.90	24.88	26.42	27.67	28.73	29.64	30.45	31.17	31.83	32.42

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PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1												
	TIME	PRECIPITATION	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	2.44
	0200	.10	.20	0800	.12	.84	1400	.15	1.62	2000	.21	2.65
	0300	.10	.30	0900	.12	.96	1500	.15	1.78	2100	.21	2.86
	0400	.10	.40	1000	.12	1.08	1600	.15	1.93	2200	.21	3.07
	0500	.10	.50	1100	.12	1.20	1700	.15	2.08	2300	.21	3.28
	0600	.10	.60	1200	.12	1.32	1800	.15	2.24	2400	.21	3.49
6-HR	TOTAL	.60		.72			.92			1.25		
DAY 2												
	TIME	PRECIPITATION	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	11.61	1900	.56	26.13
	0200	.30	4.09	0800	.67	6.75	1400	1.96	13.56	2000	.52	26.65
	0300	.32	4.40	0900	.74	7.49	1500	2.75	16.32	2100	.47	27.12
	0400	.33	4.74	1000	.82	8.31	1600	5.08	21.40	2200	.44	27.56
	0500	.35	5.09	1100	.92	9.22	1700	2.41	23.80	2300	.41	27.98
	0600	.38	5.47	1200	1.02	10.25	1800	1.76	25.57	2400	.39	28.37
6-HR	TOTAL	1.98		4.78			15.32			2.80		
DAY 3												
	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL	TIME	PRECIPITATION	TOTAL
		INCR			INCR			INCR			INCR	
	0100	.26	28.63	0700	.18	30.08	1300	.13	31.10	1900	.11	31.88
	0200	.26	28.88	0800	.18	30.26	1400	.13	31.23	2000	.11	31.99
	0300	.26	29.14	0900	.18	30.43	1500	.13	31.37	2100	.11	32.10
	0400	.26	29.39	1000	.18	30.61	1600	.13	31.50	2200	.11	32.21
	0500	.26	29.65	1100	.18	30.79	1700	.13	31.64	2300	.11	32.31
	0600	.26	29.90	1200	.18	30.96	1800	.13	31.77	2400	.11	32.42
6-HR	TOTAL	1.53		1.06			.81			.65		

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SUBBASIN3										
PR 11.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 = 1000. SQ. MI., PROBABLE MAXIMUM STORM FOR BASIN3
 STORM CENTER COORDINATES, X = 263.0, Y = 156.0, 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.	5.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
B 25.	11.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
C 50.	17.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
D 100.	19.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
E 175.	22.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
F 300.	24.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
G 450.	24.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
H 700.	24.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60
I 1000.	24.	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		21.36	5.39	2.92	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60	.60

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION																			
ISOHYET	5MIN	10MN	15MIN	30MN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	.85	1.68	2.51	4.83	8.22	12.46	16.16	23.60	29.25	32.22	34.22	35.78	37.04	38.12	39.04	39.86	40.59	41.26	41.86
B	.79	1.57	2.34	4.50	7.67	11.65	15.14	22.17	27.63	30.56	32.56	34.12	35.39	36.46	37.39	38.21	38.94	39.60	40.20
C	.73	1.46	2.17	4.19	7.15	10.87	14.13	20.75	26.03	28.93	30.94	32.49	33.76	34.83	35.76	36.58	37.31	37.97	38.58
D	.68	1.35	2.01	3.86	6.61	10.08	13.11	19.32	24.44	27.31	29.32	30.87	32.14	33.21	34.14	34.96	35.69	36.35	36.95
E	.62	1.24	1.85	3.56	6.08	9.29	12.10	17.89	22.92	25.77	27.77	29.33	30.60	31.67	32.60	33.41	34.15	34.81	35.41
F	.57	1.14	1.69	3.26	5.57	8.52	11.09	16.47	21.39	24.24	26.24	27.80	29.06	30.14	31.06	31.88	32.61	33.28	33.88
G	.53	1.05	1.57	3.02	5.18	7.92	10.31	15.36	20.19	23.02	25.02	26.58	27.85	28.92	29.85	30.67	31.40	32.06	32.66
H	.48	.96	1.43	2.75	4.72	7.24	9.42	14.09	18.82	21.65	23.65	25.21	26.47	27.55	28.47	29.29	30.02	30.69	31.29
I	.44	.88	1.31	2.52	4.33	6.64	8.65	12.99	17.62	20.43	22.44	23.99	25.26	26.33	27.26	28.08	28.81	29.47	30.08
J	.16	.33	.49	.97	1.94	3.81	5.55	9.50	13.21	15.55	17.20	18.48	19.53	20.41	21.18	21.85	22.46	23.00	23.50
K	.12	.24	.35	.70	1.40	2.75	4.01	6.97	10.04	11.94	13.28	14.32	15.17	15.89	16.51	17.06	17.55	18.00	18.40
L	.08	.17	.25	.51	1.00	1.97	2.88	5.07	7.55	9.08	10.17	11.01	11.69	12.27	12.77	13.21	13.61	13.97	14.29
M	.05	.11	.16	.33	.65	1.27	1.86	3.33	5.18	6.40	7.26	7.93	8.47	8.93	9.33	9.68	10.00	10.28	10.54
N	.03	.06	.09	.18	.36	.71	1.04	1.90	3.07	3.95	4.57	5.05	5.45	5.78	6.07	6.32	6.55	6.75	6.94
O	.01	.02	.04	.07	.14	.28	.42	.79	1.40	1.90	2.25	2.52	2.74	2.93	3.09	3.24	3.36	3.48	3.59
P	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE	.76	1.51	2.25	4.32	7.38	11.21	14.56	21.36	26.74	29.66	31.66	33.22	34.49	35.56	36.49	37.30	38.04	38.70	39.30
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PROBABLE MAXIMUM STORM FOR BASIN3												
DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.10	.10	0700	.12	.73	1300	.15	1.49	1900	.21	2.48
	0200	.10	.20	0800	.12	.85	1400	.15	1.65	2000	.21	2.69
	0300	.10	.30	0900	.12	.97	1500	.15	1.80	2100	.21	2.90
	0400	.10	.40	1000	.12	1.09	1600	.15	1.95	2200	.21	3.11
	0500	.10	.50	1100	.12	1.21	1700	.15	2.11	2300	.21	3.32
	0600	.10	.60	1200	.12	1.34	1800	.15	2.26	2400	.21	3.53
6-HR TOTAL		.60			.73			.93			1.27	

						PR 11.OUT						
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.83	0700	.66	6.20	1300	1.73	12.66	1900	.60	32.88
	0200	.31	4.14	0800	.73	6.92	1400	2.68	15.33	2000	.54	33.42
	0300	.32	4.46	0900	.82	7.74	1500	3.83	19.16	2100	.49	33.91
	0400	.34	4.80	1000	.93	8.67	1600	7.38	26.54	2200	.45	34.37
	0500	.36	5.16	1100	1.05	9.72	1700	3.36	29.90	2300	.42	34.79
	0600	.38	5.54	1200	1.20	10.92	1800	2.38	32.28	2400	.40	35.20
	6-HR TOTAL	2.01			5.39			21.36			2.92	

DAY 3															
	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.26	35.45	0700	.18	36.93	1300	.14	37.96	1900	.11	38.75			
	0200	.26	35.71	0800	.18	37.11	1400	.14	38.09	2000	.11	38.86			
	0300	.26	35.97	0900	.18	37.29	1500	.14	38.23	2100	.11	38.97			
	0400	.26	36.23	1000	.18	37.46	1600	.14	38.37	2200	.11	39.08			
	0500	.26	36.49	1100	.18	37.64	1700	.14	38.50	2300	.11	39.19			
	0600	.26	36.75	1200	.18	37.82	1800	.14	38.64	2400	.11	39.30			
	6-HR TOTAL	1.55			1.07			.82			.66				

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SUBBASIN2

BOUNDARY COORDINATES FOR BASIN2											
X	367.4	365.0	356.2	322.0	318.8	308.9	307.9	308.5	303.9	308.5	
Y	181.9	179.7	177.0	180.6	183.7	181.1	169.5	141.8	128.5	116.4	
X	315.4	331.8	341.0	349.7	353.3	349.8	354.4	357.0	364.9	364.6	
Y	121.1	122.1	122.9	115.8	123.3	135.2	137.8	149.0	163.2	170.5	
X	367.2										
Y	172.2										

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 10.3 SQ. MI.

BASIN CENTROID COORDINATES, X = 332.9, Y = 151.7

STORM AREA = 1000. SQ. MI., ORIENTATION = 175., STORM CENTER COORDINATES, X = 263.0, Y = 156.0		PROBABLE MAXIMUM STORM FOR BASIN2 PREFERRED ORIENTATION = 215.											
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.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	4.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	7.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	10.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	10.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	10.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	10.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	10.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	10.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	10.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	10.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	10.	1.17	.88	.62	.48	.39	.33	.29	.25	.23	.21	.19	.17
O 10000.	10.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	10.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		18.64	5.08	2.86	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

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TIME INTERVAL = 60. MINUTES

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

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

Page 7

		PR 11.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	
AVERAGE		.65	1.30	1.93	3.72	6.36	9.71	12.63	18.64	23.72	26.59	28.59	30.15	31.42	32.49	33.42	34.24	34.97	35.63	36.23

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

DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.83	0700	.64	6.17	1300	1.56	12.18	1900	.58	29.84
	0200	.31	4.14	0800	.70	6.87	1400	2.35	14.53	2000	.53	30.37
	0300	.32	4.46	0900	.78	7.65	1500	3.34	17.87	2100	.48	30.86
	0400	.34	4.80	1000	.87	8.52	1600	6.36	24.24	2200	.45	31.31
	0500	.36	5.16	1100	.99	9.50	1700	2.93	27.16	2300	.42	31.73
	0600	.38	5.54	1200	1.12	10.62	1800	2.10	29.26	2400	.40	32.13
	6-HR TOTAL	2.01			5.08			18.64			2.86	

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

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 = 263.0, Y = 156.0

AREA WITHIN BASIN (SQ. MI.)		DEPTHS (INCHES) FOR 6-HOUR INCREMENTS OF PMS											
ISOHYET (SQ. MI.)		1	2	3	4	5	6	7	8	9	10	11	12
A 10.	0.	23.60	5.66	2.96	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
B 25.	0.	22.17	5.46	2.93	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
C 50.	0.	20.75	5.29	2.90	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
D 100.	4.	19.32	5.12	2.87	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
E 175.	13.	17.89	5.02	2.85	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
F 300.	30.	16.47	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
G 450.	49.	15.36	4.83	2.83	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
H 700.	64.	14.09	4.73	2.82	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
I 1000.	64.	12.99	4.63	2.81	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60
J 1500.	64.	9.50	3.71	2.34	1.65	1.28	1.05	.88	.77	.68	.60	.55	.50
K 2150.	64.	6.97	3.07	1.90	1.34	1.04	.85	.72	.62	.55	.49	.44	.40
L 3000.	64.	5.07	2.49	1.53	1.08	.84	.69	.58	.50	.44	.40	.36	.33
M 4500.	64.	3.33	1.85	1.22	.86	.67	.55	.46	.40	.35	.31	.28	.26
N 6500.	64.	1.90	1.17	.88	.62	.47	.39	.33	.29	.24	.21	.19	.17
O 10000.	64.	.79	.61	.50	.35	.27	.22	.19	.16	.14	.13	.12	.11
P 15000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Q 25000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
R 40000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
S 60000.	64.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AVERAGE DEPTH		16.58	4.92	2.84	2.01	1.55	1.27	1.07	.93	.82	.73	.66	.60

PR 11.OUT

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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

DAY 2

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

DAY 3

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

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1*****
*
* PROBABLE MAXIMUM STORM (HMR52)
* NOVEMBER 1982
* REVISED APRIL 91
* RUN DATE 06/25/2008 TIME 10:16:06
*****

PR Y.OUT

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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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1
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

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

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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 200.58 192.59 188.09 177.77 167.45 160.46 154.76 153.56 156.62
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 Y.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 10:16:06
*****

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*
* U.S. ARMY CORPS OF ENGINEERS
* THE HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET
* DAVIS, CALIFORNIA 95616
* (916) 551-1748 OR (FTS) 460-1748
*
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HMR52 INPUT DATA FOR CPNPP UNITS 3 & 4 PMP CALCULATION
 ANALYSIS PERFORMED BY ANUBHAV GAUR ENERCON SERVICES INC 02-14-2008
 STORM CENTER WITHIN PALUXY RIVER BASIN AT PR Y
 CALCULATE STORM OVER ENTIRE AREA

PMP DEPTHS FROM HMR 51

AREA (SQ. MI.)	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 Y.OUT

BASIN AREA = 509.4 SQ. MI.

BASIN CENTROID COORDINATES, X = 217.6, Y = 375.6

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VARYING STORM AREA SIZE AND FIXED ORIENTATION

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

FIXED STORM AREA SIZE AND VARYING ORIENTATION

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

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

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

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.03	10.04	14.33	17.97	25.01	30.41	33.33	35.33	36.89	38.16	39.23	40.16	40.99	41.72	42.39	43.00
B	.98	1.96	2.93	5.63	9.39	13.42	16.84	23.49	28.70	31.59	33.59	35.14	36.41	37.49	38.42	39.24	39.98	40.64	41.25
C	.92	1.83	2.72	5.24	8.75	12.52	15.77	21.98	27.00	29.85	31.85	33.40	34.67	35.75	36.68	37.50	38.24	38.90	39.51
D	.85	1.69	2.52	4.85	8.10	11.62	14.59	20.46	25.34	28.16	30.16	31.72	32.99	34.06	34.99	35.82	36.55	37.22	37.82
E	.79	1.57	2.34	4.51	7.54	10.83	13.61	19.14	23.89	26.70	28.70	30.26	31.53	32.60	33.53	34.36	35.09	35.76	36.36
F	.72	1.44	2.15	4.13	6.91	9.93	12.49	17.62	22.26	25.06	27.06	28.61	29.88	30.96	31.89	32.71	33.45	34.11	34.72
G	.67	1.33	1.98	3.80	6.36	9.16	11.51	16.29	20.84	23.63	25.63	27.18	28.45	29.53	30.46	31.28	32.02	32.68	33.29

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

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PROBABLE MAXIMUM STORM FOR CPNPP

DAY 1

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

DAY 2

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

DAY 3

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

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BOUNDARY COORDINATES FOR BASIN4

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 410.6 SQ. MI.

BASIN CENTROID COORDINATES, X = 193.4, Y = 409.2

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PROBABLE MAXIMUM STORM FOR BASIN4
 STORM AREA = 450. SQ. MI., ORIENTATION = 172., PREFERRED ORIENTATION = 215.
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		STORM CENTER COORDINATES, X = PR Y.OUT 205.0, Y = 371.0												
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.	10.	25.01	5.40	2.92	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	
B 25.	25.	23.49	5.21	2.88	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	
C 50.	50.	21.98	5.02	2.85	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	
D 100.	100.	20.46	4.88	2.82	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	
E 175.	175.	19.14	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	
F 300.	278.	17.62	4.64	2.80	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	
G 450.	363.	16.29	4.54	2.79	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	
H 700.	407.	11.94	3.70	2.36	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51	
I 1000.	411.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43	
J 1500.	411.	7.20	2.61	1.69	1.20	.93	.76	.65	.56	.49	.44	.40	.36	
K 2150.	411.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30	
L 3000.	411.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24	
M 4500.	411.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18	
N 6500.	411.	1.52	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12	
O 10000.	411.	.57	.22	.20	.14	.11	.09	.08	.07	.06	.05	.05	.04	
P 15000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
Q 25000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
R 40000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
S 60000.	411.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
AVERAGE DEPTH		18.78	4.72	2.79	1.98	1.54	1.26	1.06	.92	.81	.73	.66	.60	

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

PROBABLE MAXIMUM STORM FOR BASIN4

DAY 1

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

DAY 2

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

DAY 3

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

SUBBASIN3										
PR Y.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 = 450. SQ. MI., ORIENTATION = 172., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 205.0, Y = 371.0

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

TIME INTERVAL = 60. MINUTES

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

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

PROBABLE MAXIMUM STORM FOR BASIN3

DAY 1	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.10	.10	0700	.12	.73	1300	.16	1.50	1900	.21	2.49
	0200	.10	.20	0800	.12	.85	1400	.16	1.65	2000	.21	2.70
	0300	.10	.30	0900	.12	.98	1500	.16	1.81	2100	.21	2.91
	0400	.10	.40	1000	.12	1.10	1600	.16	1.96	2200	.21	3.12
	0500	.10	.51	1100	.12	1.22	1700	.16	2.12	2300	.21	3.33
	0600	.10	.61	1200	.12	1.34	1800	.16	2.27	2400	.21	3.54
6-HR TOTAL		.61			.74			.93			1.27	

							PR Y.OUT					
DAY 2	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.30	3.84	0700	.60	6.14	1300	1.34	11.51	1900	.56	28.23
	0200	.31	4.15	0800	.65	6.79	1400	1.99	13.51	2000	.51	28.74
	0300	.32	4.47	0900	.71	7.50	1500	3.00	16.51	2100	.47	29.21
	0400	.34	4.81	1000	.79	8.29	1600	6.85	23.36	2200	.44	29.65
	0500	.36	5.17	1100	.89	9.17	1700	2.54	25.90	2300	.42	30.07
	0600	.38	5.54	1200	1.00	10.17	1800	1.77	27.67	2400	.40	30.47
	6-HR TOTAL	2.00		4.63			17.50			2.80		

DAY 3	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
	0100	.26	30.72	0700	.18	32.20	1300	.14	33.23	1900	.11	34.03
	0200	.26	30.98	0800	.18	32.38	1400	.14	33.37	2000	.11	34.14
	0300	.26	31.24	0900	.18	32.56	1500	.14	33.50	2100	.11	34.25
	0400	.26	31.50	1000	.18	32.74	1600	.14	33.64	2200	.11	34.36
	0500	.26	31.76	1100	.18	32.91	1700	.14	33.78	2300	.11	34.47
	0600	.26	32.02	1200	.18	33.09	1800	.14	33.92	2400	.11	34.58
	6-HR TOTAL	1.55		1.07			.82			.67		

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

		STORM CENTER COORDINATES, X = 203.0, Y = 371.0											
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.	25.01	5.40	2.92	2.00	1.55	1.27	1.08	.93	.82	.74	.67	
B 25.	0.	23.49	5.21	2.88	2.00	1.55	1.27	1.08	.93	.82	.74	.67	
C 50.	0.	21.98	5.02	2.85	2.00	1.55	1.27	1.08	.93	.82	.74	.67	
D 100.	0.	20.46	4.88	2.82	2.00	1.55	1.27	1.08	.93	.82	.74	.67	
E 175.	0.	19.14	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	
F 300.	0.	17.62	4.64	2.80	2.00	1.55	1.27	1.08	.93	.82	.74	.67	
G 450.	4.	16.29	4.54	2.79	2.00	1.55	1.27	1.08	.93	.82	.74	.67	
H 700.	10.	11.94	3.70	2.36	1.68	1.31	1.07	.90	.78	.69	.62	.56	
I 1000.	10.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	
J 1500.	10.	7.20	2.61	1.69	1.20	.93	.76	.65	.56	.49	.44	.40	
K 2150.	10.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	
L 3000.	10.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	
M 4500.	10.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	
N 6500.	10.	1.52	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	
O 10000.	10.	.57	.22	.20	.14	.11	.09	.08	.07	.06	.05	.04	
P 15000.	10.	.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	
R 40000.	10.	.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	
AVERAGE DEPTH		15.05	4.28	2.65	1.90	1.47	1.20	1.02	.88	.78	.70	.63	
												.58	

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TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

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

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R S	PR Y. OUT																		
	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00
AVERAGE	.52	1.04	1.56	3.01	5.17	7.87	10.21	15.05	19.33	21.98	23.88	25.35	26.55	27.57	28.46	29.23	29.93	30.56	31.14

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	.69	1300	.15	1.42	1900	.20	2.36
0200	.10	.19	0800	.12	.81	1400	.15	1.57	2000	.20	2.56
0300	.10	.29	0900	.12	.92	1500	.15	1.71	2100	.20	2.76
0400	.10	.38	1000	.12	1.04	1600	.15	1.86	2200	.20	2.96
0500	.10	.48	1100	.12	1.16	1700	.15	2.01	2300	.20	3.16
0600	.10	.58	1200	.12	1.27	1800	.15	2.16	2400	.20	3.36
6-HR TOTAL	.58		.70			.88			1.20		

DAY 2

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.28	3.64	0700	.56	5.82	1300	1.27	10.81	1900	.52	25.11
0200	.29	3.93	0800	.60	6.41	1400	1.88	12.69	2000	.48	25.59
0300	.31	4.24	0900	.65	7.07	1500	2.70	15.39	2100	.45	26.04
0400	.32	4.56	1000	.73	7.79	1600	5.17	20.56	2200	.42	26.46
0500	.34	4.90	1100	.82	8.61	1700	2.34	22.90	2300	.40	26.86
0600	.36	5.26	1200	.93	9.54	1800	1.68	24.58	2400	.38	27.24
6-HR TOTAL	1.90		4.28			15.05			2.65		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.25	27.48	0700	.17	28.88	1300	.13	29.86	1900	.11	30.61
0200	.25	27.73	0800	.17	29.05	1400	.13	29.99	2000	.11	30.72
0300	.25	27.97	0900	.17	29.22	1500	.13	30.12	2100	.11	30.82
0400	.25	28.22	1000	.17	29.39	1600	.13	30.25	2200	.11	30.93
0500	.25	28.46	1100	.17	29.56	1700	.13	30.38	2300	.11	31.03
0600	.25	28.71	1200	.17	29.73	1800	.13	30.51	2400	.11	31.14
6-HR TOTAL	1.47		1.02			.78			.63		

SUBBASIN1

BOUNDARY COORDINATES FOR BASIN1

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

SCALE = .0583 MILES PER COORDINATE UNIT

BASIN AREA = 64.1 SQ. MI.

BASIN CENTROID COORDINATES, X = 342.0, Y = 290.5

PROBABLE MAXIMUM STORM FOR BASIN1
 STORM AREA = 450. SQ. MI., ORIENTATION = 172., PREFERRED ORIENTATION = 215.
 STORM CENTER COORDINATES, X = 205.0, Y = 371.0

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.	25.01	5.40	2.92	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	.61
B 25.	0.	23.49	5.21	2.88	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	.61
C 50.	0.	21.98	5.02	2.85	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	.61
D 100.	0.	20.46	4.88	2.82	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	.61
E 175.	0.	19.14	4.76	2.81	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	.61
F 300.	9.	17.62	4.64	2.80	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	.61
G 450.	28.	16.29	4.54	2.79	2.00	1.55	1.27	1.08	.93	.82	.74	.67	.61	.61
H 700.	56.	11.94	3.70	2.36	1.68	1.31	1.07	.90	.78	.69	.62	.56	.51	.51
I 1000.	64.	9.47	3.15	2.00	1.42	1.10	.90	.76	.66	.58	.52	.47	.43	.43
J 1500.	64.	7.20	2.61	1.69	1.20	.93	.76	.65	.56	.49	.44	.40	.36	.36
K 2150.	64.	5.68	2.13	1.41	1.00	.78	.64	.54	.47	.41	.37	.33	.30	.30
L 3000.	64.	4.36	1.74	1.11	.79	.61	.50	.42	.37	.32	.29	.26	.24	.24
M 4500.	64.	2.84	1.22	.84	.60	.47	.38	.32	.28	.25	.22	.20	.18	.18
N 6500.	64.	1.52	.67	.53	.38	.30	.24	.20	.18	.16	.14	.13	.12	.12
O 10000.	64.	.57	.22	.20	.14	.11	.09	.08	.07	.06	.05	.04	.04	.04
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		15.07	4.25	2.62	1.87	1.45	1.19	1.01	.87	.77	.69	.62	.57	

PR Y.OUT

TIME INTERVAL = 60. MINUTES

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

DEPTH VS. DURATION

ISOHYET	5MIN	10MIN	15MIN	30MIN	1-HR	2-HR	3-HR	6-HR	12-HR	18-HR	24-HR	30-HR	36-HR	42-HR	48-HR	54-HR	60-HR	66-HR	72-HR
A	1.05	2.10	3.13	6.03	10.04	14.33	17.97	25.01	30.41	33.33	35.33	36.89	38.16	39.23	40.16	40.99	41.72	42.39	43.00
B	.98	1.96	2.93	5.63	9.39	13.42	16.84	23.49	28.70	31.59	33.59	35.14	36.41	37.49	38.42	39.24	39.98	40.64	41.25
C	.92	1.83	2.72	5.24	8.75	12.52	15.72	21.98	27.00	29.85	31.85	33.40	34.67	35.75	36.68	37.50	38.24	38.90	39.51
D	.85	1.69	2.52	4.85	8.10	11.62	14.59	20.46	25.34	28.16	30.16	31.72	32.99	34.06	34.99	35.82	36.55	37.22	37.82
E	.79	1.57	2.34	4.51	7.54	10.83	13.61	19.14	23.89	26.70	28.70	30.26	31.53	32.60	33.53	34.36	35.09	35.76	36.36
F	.72	1.44	2.15	4.13	6.91	9.93	12.49	17.62	22.26	25.06	27.06	28.61	29.88	30.96	31.89	32.71	33.45	34.11	34.72
G	.67	1.33	1.98	3.80	6.36	9.16	11.51	16.29	20.84	23.63	25.63	27.18	28.45	29.53	30.46	31.28	32.02	32.68	33.29
H	.61	1.22	1.82	3.52	5.82	8.42	10.42	14.82	18.82	21.22	22.82	24.12	25.12	25.92	26.62	27.22	27.72	28.12	28.42
I	.56	1.12	1.67	3.27	5.47	7.97	9.97	13.97	17.47	19.47	20.87	21.97	22.87	23.57	24.17	24.67	25.07	25.37	25.57
J	.52	1.04	1.55	3.00	5.16	7.42	9.42	12.92	15.92	17.92	18.92	19.62	20.12	20.52	20.82	21.02	21.12	21.22	21.32
K	.48	.96	1.44	2.88	4.80	6.72	8.64	11.52	13.92	15.84	16.84	17.52	18.02	18.32	18.52	18.62	18.72	18.82	18.92
L	.44	.88	1.32	2.64	4.40	6.24	8.16	10.88	12.96	14.72	15.68	16.32	16.72	17.02	17.22	17.32	17.42	17.52	17.62
M	.40	.80	1.20	2.40	4.00	5.60	7.20	9.60	11.52	13.12	14.40	15.36	15.84	16.16	16.36	16.46	16.56	16.66	16.76
N	.36	.72	1.08	2.16	3.60	5.04	6.48	8.64	10.32	11.68	12.80	13.60	14.08	14.40	14.60	14.70	14.80	14.90	15.00
O	.32	.64	.96	1.92	3.20	4.48	5.76	7.68	9.12	10.24	11.04	11.68	12.08	12.32	12.48	12.60	12.72	12.84	12.96
P	.28	.56	.84	1.68	2.88	4.08	5.28	7.04	8.40	9.44	10.08	10.56	10.96	11.20	11.36	11.48	11.60	11.72	11.84
Q	.24	.48	.72	1.44	2.40	3.36	4.32	5.76	6.96	7.84	8.32	8.64	8.88	9.04	9.16	9.28	9.40	9.52	9.64
R	.20	.40	.60	1.20	2.00	2.80	3.60	4.80	5.76	6.40	6.72	6.96	7.12	7.28	7.40	7.52	7.64	7.76	7.88
S	.16	.32	.48	.96	1.60	2.24	2.88	3.84	4.60	5.12	5.28	5.44	5.60	5.72	5.84	5.96	6.08	6.20	6.32
AVERAGE	.52	1.04	1.55	3.00	5.16	7.87	10.22	15.07	19.32	21.94	23.81	25.27	26.45	27.46	28.33	29.10	29.79	30.41	30.98

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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	2.53
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	.55	5.75	1300	1.27	10.71	1900	.52	25.03
0200	.29	3.89	0800	.59	6.34	1400	1.89	12.60	2000	.48	25.51
0300	.30	4.19	0900	.65	6.98	1500	2.71	15.31	2100	.44	25.95
0400	.32	4.50	1000	.72	7.70	1600	5.16	20.46	2200	.42	26.37
0500	.33	4.84	1100	.81	8.52	1700	2.35	22.82	2300	.39	26.76
0600	.35	5.19	1200	.92	9.44	1800	1.69	24.51	2400	.37	27.13
6-HR TOTAL	1.87		4.25			15.07			2.62		

DAY 3

TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL	TIME	PRECIPITATION INCR	TOTAL
0100	.24	27.37	0700	.17	28.75	1300	.13	29.72	1900	.10	30.46
0200	.24	27.61	0800	.17	28.92	1400	.13	29.85	2000	.10	30.57
0300	.24	27.86	0900	.17	29.09	1500	.13	29.98	2100	.10	30.67
0400	.24	28.10	1000	.17	29.26	1600	.13	30.10	2200	.10	30.78
0500	.24	28.34	1100	.17	29.42	1700	.13	30.23	2300	.10	30.88
0600	.24	28.58	1200	.17	29.59	1800	.13	30.36	2400	.10	30.98
6-HR TOTAL	1.45		1.01			.77			.62		

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