OPERATION RUNOFF CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.59	72.36	(RUNOFF)
1.95	5.30	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.62	86.61	5880.72	
2.00	125.23	5880.87	
14.70	131.25*	5880.89	* FIRST POINT OF FLAT PEAK
20.89	127.73	5880.88	

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.73	447.02	5881.48	
1.11	428.38	5881.44	
14.70	131.25*	5880.77	* FIRST POINT OF FLAT PEAK
20.89	127.73	5880.76	

*** WARNING - REACH 39 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 93.16 CFS, 20.95 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 38

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.60	297.11	(RUNOFF)
1.95	22.13	(RUNOFF)

*** WARNING REACH 36 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING REACH 39 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 36

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.80	208.71	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 36

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.74	467.22	5859.72

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.82	709.16	5853.66
15.29	131.25	5851.81
20.99	127.36	5851.79

OPERATION RUNOFF CROSS SECTION 42

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.67	179.54	(RUNOFF)

*** WARNING REACH 40 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.81	212.70	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.82	361.51	5863.42

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.82	1070.61	5854.40
15.29	131.25	5851.81
20.99	127.36	5851.79

OPERATION RUNOFF CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.61	117.63	(RUNOFF)
1.95	10.26	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.81	1127.62	5854.48
15.29	131.25	5851.81
20.99	127.36	5851.79

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 3.35 SQ.MI.

.00	DISCHG	.00	.00	.14	4.04	54.04	252.74	658.87	1028.35	1127.13	1054.30
1.00	DISCHG	947.11	862.62	801.24	734.51	661.68	595.88	547.08	514.58	492.57	477.44
2.00	DISCHG	466.48	451.95	422.02	381.72	348.56	325.58	309.07	295.36	283.17	271.93
3.00	DISCHG	261.46	251.65	240.77	228.72	216.40	204.53	191.12	175.51	161.20	149.78
4.00	DISCHG	141.35	135.42	131.36	128.63	126.83	125.65	124.90	124.42	124.13	123.96
5.00	DISCHG	123.87	123.83	123.83	123.86	123.90	123.96	124.02	124.09	174.16	124.24
6.00	DISCHG	124.32	124.40	124.49	124.58	124.67	124.76	124.86	124.95	125.05	125.14
7.00	DISCHG	125.24	125.34	125.44	125.54	125.65	125.75	125.85	125.96	126.06	126.17
8.00	DISCHG	126.28	126.38	126.49	126.60	126.70	126.81	126.92	127.03	127.13	127.24
9.00	DISCHG	127.34	127.45	127.55	127.66	127.76	127.86	127.97	128.07	128.17	128.27
10.00	DISCHG	128.37	128.47	128.57	128.66	128.76	128.85	128.94	129.04	129.12	129.21
11.00	DISCHG	129.30	129.39	129.47	129.55	129.63	129.71	129.79	129.87	129.94	130.01
12.00	DISCHG	130.08	130.15	130.22	130.29	130.35	130.41	130.47	130.52	130.58	130.64
13.00	DISCHG	130.68	130.74	130.78	130.82	130.87	130.91	130.95	130.98	131.02	131.05
14.00	DISCHG	131.08	131.10	131.12	131.15	131.17	131.19	131.20	131.21	131.23	131.23
15.00	DISCHG	131.24	131.24	131.24	131.25	131.24	131.24	131.23	131.22	131.21	131.20
16.00	DISCHG	131.18	131.16	131.14	131.12	131.09	131.06	131.03	130.99	130.96	130.92
17.00	DISCHG	130.88	130.83	130.78	130.73	130.68	130.62	130.57	130.50	130.44	130.37
18.00	DISCHG	130.31	130.23	130.16	130.09	130.01	129.93	129.85	129.76	129.67	129.58
19.00	DISCHG	129.49	129.39	129.29	129.19	129.09	128.98	128.87	128.76	128.65	128.53
20.00	DISCHG	128.41	128.28	128.15	128.02	127.88	127.75	127.61	127.46	127.31	127.16
21.00	DISCHG	127.36	127.08	126.84	126.63	126.43	126.24	126.05	125.86	125.68	125.50
22.00	DISCHG	125.31	125.13	124.94	124.75	124.55	124.35	124.15	123.95	123.75	123.54
23.00	DISCHG	123.33	123.11	122.89	122.66	122.43	122.18	121.93	121.66	121.39	121.12
24.00	DISCHG	120.83	120.54	120.24	119.93	119.61	119.29	118.96	118.63	118.29	117.94
25.00	DISCHG	117.59	117.23	116.87	116.50	116.13	115.75	115.37	114.98	114.57	114.12
26.00	DISCHG	113.64	113.14	112.63	112.10	111.57	111.03	110.48	109.93	109.38	108.82
27.00	DISCHG	108.27	107.71	107.14	106.58	106.01	105.45	104.88	104.31	103.75	103.18
28.00	DISCHG	102.61	102.05	101.48	100.92	100.35	99.79	99.23	98.67	98.10	97.54
29.00	DISCHG	96.99	96.43	95.87	95.31	94.76	94.20	61.51	40.16	26.22	17.12

RUNOFF VOLUME ABOVE BASEFLOW = 2.23 WATERSHED INCHES, 4830.22 CFS-HRS, 399.17 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION DIVERT CROSS SECTION 100

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.81	182.21	5858.26	
15.30	69.06*	5856.45	* FIRST POINT OF FLAT PEAK
20.99	67.97	5856.43	

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.81	945.41	5858.26
15.29	62.19	5856.45
20.99	59.38	5856.43

OPERATION REACH CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
1.00	174.37	5851.97	
15.40	69.06*	5851.57	* FIRST POINT OF FLAT PEAK
21.08	67.96	5851.57	

OPERATION RUNOFF CROSS SECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.66	386.31	(RUNOFF)

*** WARNING REACH 28 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 28

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.63	325.38	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 28

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.64	717.97	5926.01

OPERATION RESVOR STRUCTURE 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.09	230.28	5932.86

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .25 SQ.MI.

.00	DISCHG	.00	.00	.33	7.68	48.19	71.30	116.95	165.43	201.23	220.50
1.00	DISCHG	228.57	230.27	228.19	222.49	213.53	202.65	191.23	180.20	169.90	160.40
2.00	DISCHG	151.67	143.27	134.15	124.09	113.95	104.20	93.60	84.03	75.41	67.67
3.00	DISCHG	60.72	54.49	43.69	18.14	7.53	3.13	1.30	.54	.22	.09
4.00	DISCHG	.04	.02	.01	.00						

RUNOFF VOLUME ABOVE BASEFLOW = 2.59 WATERSHED INCHES, 413.44 CFS-HRS, 34.17 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 27 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.61	115.30	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.88	265.45	5873.11

OPERATION RUNOFF CROSS SECTION 26

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.62	352.45	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.64	597.92	5873.86

*** WARNING REACH 26 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.75	1423.87	5854.89
15.29	62.19	5851.55
20.99	59.38	5851.54

OPERATION RESVOR STRUCTURE 29

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
2.40	358.62	5858.38	
15.70	62.17*	5847.07	* FIRST POINT OF FLAT PEAK

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 3.07 SQ.MI.

.00	DISCHG	.00	.00	.34	6.32	34.14	89.71	151.74	194.28	222.13	243.04
1.00	DISCHG	261.16	276.80	290.29	296.93	302.52	307.13	310.97	314.23	317.09	319.65
2.00	DISCHG	332.21	344.25	352.85	357.45	358.62	357.31	354.24	349.82	344.33	337.98
3.00	DISCHG	330.93	323.31	319.21	317.63	315.79	313.80	311.71	309.51	307.22	304.85

4.00	DISCHG	302.43	299.98	297.52	295.06	292.61	290.18	286.01	281.76	277.60	273.50
5.00	DISCHG	269.49	265.54	261.67	257.87	254.14	250.48	246.89	243.37	239.91	236.52
6.00	DISCHG	233.19	229.92	226.72	223.58	220.50	217.47	214.50	211.59	208.74	205.94
7.00	DISCHG	201.39	196.08	190.98	186.06	181.33	176.78	172.40	168.18	164.12	160.22
8.00	DISCHG	156.46	149.98	142.13	134.97	128.43	122.46	117.00	112.03	107.48	103.34
9.00	DISCHG	99.55	96.10	92.95	90.08	84.70	80.21	76.54	73.54	71.09	69.10
10.00	DISCHG	67.48	66.16	65.09	64.23	63.53	62.97	62.53	62.17	61.90	61.68
11.00	DISCHG	61.51	61.39	61.30	61.23	61.19	61.17	61.16	61.16	61.17	61.19
12.00	DISCHG	61.21	61.24	61.27	61.31	61.35	61.39	61.43	61.47	61.51	61.55
13.00	DISCHG	61.59	61.62	61.66	61.70	61.74	61.77	61.80	61.84	61.87	61.90
14.00	DISCHG	61.93	61.95	61.98	62.00	62.02	62.04	62.06	62.08	62.10	62.11
15.00	DISCHG	62.12	62.13	62.14	62.15	62.16	62.16	62.17	62.17	62.17	62.17
16.00	DISCHG	62.16	62.16	62.15	62.14	62.13	62.12	62.11	62.09	62.07	62.05
17.00	DISCHG	62.03	62.01	61.98	61.96	61.93	61.90	61.87	61.83	61.80	61.76
18.00	DISCHG	61.72	61.68	61.63	61.59	61.54	61.49	61.44	61.39	61.33	61.28
19.00	DISCHG	61.22	61.16	61.10	61.03	60.97	60.90	60.83	60.76	60.69	60.61
20.00	DISCHG	60.54	60.46	60.38	60.29	60.21	60.12	60.03	59.93	59.84	59.74
21.00	DISCHG	59.66	59.60	59.51	59.40	59.29	59.18	59.06	58.93	58.81	58.68
22.00	DISCHG	58.56	58.43	58.30	58.17	58.04	57.90	57.77	57.63	57.49	57.35
23.00	DISCHG	57.21	57.06	56.91	56.76	56.61	56.45	56.29	56.13	55.96	55.78
24.00	DISCHG	55.60	55.42	55.23	55.03	54.83	54.62	54.41	54.20	53.98	53.75
25.00	DISCHG	53.52	53.28	53.05	52.80	52.55	52.30	52.05	51.79	51.52	51.25
26.00	DISCHG	50.96	50.67	50.36	50.04	49.71	49.36	49.01	48.65	48.29	47.92
27.00	DISCHG	47.54	47.16	46.77	46.38	45.99	45.59	45.20	44.80	44.39	43.99
28.00	DISCHG	43.59	43.18	42.78	42.37	41.97	41.56	41.15	40.75	40.34	39.94
29.00	DISCHG	39.53	39.13	38.72	38.32	37.92	37.52	35.03	29.63	19.76	13.17

RUNOFF VOLUME ABOVE BASEFLOW = 1.68 WATERSHED INCHES, 3339.15 CFS-HRS, 275.95 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION ADDHYD CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
1.29	455.27	5817.33	
2.30	475.62	5817.41	
15.60	131.22*	5816.12	* FIRST POINT OF FLAT PEAK

*** WARNING REACH 32 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.60	164.17	(RUNOFF)
1.95	12.50	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
1.28	472.41	5831.63	
2.44	474.44	5831.64	
15.70	131.22*	5830.78	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.75	175.05	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
1.09	553.85	5832.11	
2.31	479.05	5831.91	
15.70	131.22*	5830.93	* FIRST POINT OF FLAT PEAK

*** WARNING REACH 24 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 24 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 70.87 CFS, 12.80 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.63	430.12	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.75	722.35	5832.56	
15.90	131.22*	5830.98	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 18

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.76	162.78	(RUNOFF)

OPERATION RUNOFF CROSS SECTION 16

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.63	198.92	(RUNOFF)

```
OPERATION ADDHYD   CROSS SECTION  16

          PEAK TIME(HRS)              PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .67                          210.40                      5852.84


OPERATION RUNOFF   CROSS SECTION  34

          PEAK TIME(HRS)              PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .71                          122.09                       (RUNOFF)

     ***  WARNING  REACH  33 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT  ***


OPERATION ADDHYD   CROSS SECTION  33

          PEAK TIME(HRS)              PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .71                          282.06                      5849.01


OPERATION ADDHYD   CROSS SECTION  33

          PEAK TIME(HRS)              PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .70                          490.53                      5849.48


OPERATION RUNOFF   CROSS SECTION  14

          PEAK TIME(HRS)              PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .70                          156.41                       (RUNOFF)


OPERATION ADDHYD   CROSS SECTION  14

          PEAK TIME(HRS)              PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .90                          476.34                      5854.00


OPERATION ADDHYD   CROSS SECTION  24

          PEAK TIME(HRS)              PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .85                         1178.16                      5833.55
             15.90                          131.22*                     5830.98    * FIRST POINT OF FLAT PEAK


OPERATION RESVOR   STRUCTURE  2
```

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.30	984.29	5825.28
16.10	131.22*	5817.60 * FIRST POINT OF FLAT PEAK

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 4.40 SQ.MI.

.00	DISCHG	.00	.00	.15	4.86	37.34	138.89	329.49	501.47	635.13	776.75
1.00	DISCHG	876.68	940.22	974.30	984.28	972.65	945.08	907.04	864.33	822.58	794.02
2.00	DISCHG	749.82	719.29	689.77	660.29	632.42	607.25	589.32	574.30	559.63	545.42
3.00	DISCHG	531.75	518.00	499.79	483.75	469.60	457.49	447.34	438.66	430.96	423.87
4.00	DISCHG	417.16	410.67	404.24	397.94	391.89	386.20	380.91	376.06	371.49	367.01
5.00	DISCHG	362.56	358.13	353.75	349.43	345.20	341.05	335.53	330.21	325.53	321.28
6.00	DISCHG	317.31	313.54	309.92	306.41	303.01	299.69	296.44	293.26	290.14	287.09
7.00	DISCHG	284.10	281.17	278.10	274.59	270.57	266.19	261.62	256.99	252.39	247.88
8.00	DISCHG	243.47	239.12	234.60	230.06	224.88	218.95	212.60	206.16	199.90	193.95
9.00	DISCHG	188.38	183.23	178.48	174.12	170.14	166.49	162.83	158.86	154.77	150.84
10.00	DISCHG	147.26	144.12	141.43	139.16	137.28	135.73	134.46	133.43	132.59	131.92
11.00	DISCHG	131.39	130.96	130.63	130.38	130.18	130.04	129.94	129.87	129.82	129.80
12.00	DISCHG	129.80	129.81	129.83	129.86	129.90	129.95	129.99	130.05	130.10	130.15
13.00	DISCHG	130.21	130.27	130.32	130.38	130.43	130.49	130.54	130.59	130.64	130.69
14.00	DISCHG	130.73	130.78	130.82	130.86	130.90	130.93	130.97	131.00	131.03	131.06
15.00	DISCHG	131.08	131.11	131.13	131.15	131.16	131.18	131.19	131.20	131.21	131.21
16.00	DISCHG	131.21	131.22	131.21	131.21	131.21	131.20	131.19	131.17	131.16	131.14
17.00	DISCHG	131.12	131.10	131.07	131.04	131.01	130.98	130.95	130.91	130.87	130.82
18.00	DISCHG	130.78	130.73	130.68	130.62	130.56	130.51	130.44	130.38	130.31	130.24
19.00	DISCHG	130.17	130.10	130.02	129.94	129.86	129.78	129.69	129.60	129.51	129.42
20.00	DISCHG	129.32	129.22	129.12	129.01	128.90	128.79	128.68	128.56	128.44	128.32
21.00	DISCHG	128.19	128.06	127.93	127.81	127.70	127.58	127.45	127.31	127.16	126.99
22.00	DISCHG	126.83	126.65	126.48	126.30	126.13	125.95	125.77	125.58	125.40	125.21
23.00	DISCHG	125.02	124.83	124.64	124.44	124.24	124.04	123.84	123.63	123.41	123.19
24.00	DISCHG	122.96	122.73	122.49	122.25	122.00	121.74	121.47	121.19	120.91	120.62
25.00	DISCHG	120.33	120.02	119.71	119.40	119.08	118.75	118.41	118.07	117.72	117.37
26.00	DISCHG	117.01	116.65	116.28	115.89	115.49	115.07	114.64	114.19	113.72	113.24
27.00	DISCHG	112.75	112.25	111.73	111.22	110.69	110.16	109.62	109.08	108.53	107.98
28.00	DISCHG	107.43	106.87	106.31	105.75	105.19	104.63	104.07	103.51	102.94	102.38
29.00	DISCHG	101.82	101.26	100.69	100.13	99.57	99.01	98.45	97.89	97.08	94.74

RUNOFF VOLUME ABOVE BASEFLOW = 2.26 WATERSHED INCHES, 6428.55 CFS-HRS, 531.26 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 12 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 11

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.59	111.20	(RUNOFF)
1.95	8.09	(RUNOFF)

*** WARNING REACH 10 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

```
OPERATION RUNOFF   CROSS SECTION  10

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .60                         285.95                       (RUNOFF)
              1.95                          21.56                       (RUNOFF)


OPERATION ADDHYD   CROSS SECTION  12

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .62                         367.76                      5797.69


OPERATION ADDHYD   CROSS SECTION  12

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
              1.21                        1053.55                      5799.54
             16.10                         131.22*                     5795.64    * FIRST POINT OF FLAT PEAK


OPERATION RUNOFF   CROSS SECTION  12

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .69                         255.41                       (RUNOFF)


OPERATION ADDHYD   CROSS SECTION  12

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .74                        1080.54                      5799.63
              1.14                        1140.45                      5799.83
             16.10                         131.22*                     5795.64    * FIRST POINT OF FLAT PEAK

     *** WARNING  REACH   6 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT  ***


OPERATION RUNOFF   CROSS SECTION   6

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .67                         176.81                       (RUNOFF)


OPERATION ADDHYD   CROSS SECTION   6
```

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.73	1246.54	5773.45	
1.10	1205.22	5773.39	
16.10	131.22*	5771.07	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 8

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.69	173.89	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.72	1418.23	5773.68	
1.06	1278.89	5773.49	
16.10	131.22*	5771.07	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 9

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.65	123.51	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 8

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.71	1535.88	(NULL)	
16.10	131.22*	(NULL)	* FIRST POINT OF FLAT PEAK

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
1.69	980.08	5778.69	
16.60	131.18*	5772.21	* FIRST POINT OF FLAT PEAK

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 4.84 SQ.MI.

.00	DISCHG	.00	.00	.09	3.88	32.45	135.73	287.81	447.83	582.80	677.51
1.00	DISCHG	754.74	820.67	876.77	920.46	950.64	968.97	978.04	980.02	976.36	968.28
2.00	DISCHG	956.83	941.91	921.86	896.82	869.20	840.83	812.92	786.21	760.82	736.68
3.00	DISCHG	713.71	691.82	670.62	649.88	629.80	610.53	592.20	572.95	554.87	538.18
4.00	DISCHG	522.78	508.53	495.30	482.97	471.44	460.65	450.56	441.13	432.31	424.05
5.00	DISCHG	416.30	408.97	402.03	395.43	389.13	383.11	377.24	371.43	365.73	360.19
6.00	DISCHG	354.83	349.67	344.71	339.92	335.31	330.87	326.57	322.42	317.79	312.51
7.00	DISCHG	307.64	303.12	298.87	294.79	290.77	286.72	282.59	278.38	274.09	269.76

8.00	DISCHG	265.40	261.04	256.66	252.26	247.78	243.10	238.15	232.95	227.53	222.00
9.00	DISCHG	216.42	210.88	205.83	200.93	196.15	191.54	187.08	182.73	178.43	174.18
10.00	DISCHG	170.01	165.98	162.13	158.51	155.15	152.05	149.24	146.70	144.43	142.41
11.00	DISCHG	140.63	139.06	137.69	136.50	135.47	134.58	133.82	133.17	132.62	132.15
12.00	DISCHG	131.76	131.44	131.17	130.95	130.77	130.63	130.52	130.44	130.38	130.34
13.00	DISCHG	130.31	130.30	130.30	130.31	130.32	130.35	130.37	130.40	130.44	130.48
14.00	DISCHG	130.51	130.55	130.60	130.64	130.68	130.72	130.75	130.79	130.83	130.86
15.00	DISCHG	130.90	130.93	130.96	130.99	131.02	131.04	131.07	131.09	131.11	131.12
16.00	DISCHG	131.14	131.15	131.16	131.17	131.18	131.18	131.18	131.18	131.18	131.17
17.00	DISCHG	131.17	131.16	131.15	131.13	131.11	131.09	131.07	131.05	131.02	130.99
18.00	DISCHG	130.96	130.93	130.89	130.85	130.81	130.76	130.71	130.66	130.61	130.56
19.00	DISCHG	130.50	130.44	130.38	130.31	130.24	130.17	130.10	130.02	129.95	129.87
20.00	DISCHG	129.78	129.70	129.61	129.52	129.43	129.33	129.23	129.13	129.03	128.92
21.00	DISCHG	128.81	128.69	128.58	128.46	128.34	128.23	128.11	127.99	127.86	127.73
22.00	DISCHG	127.60	127.45	127.31	127.16	127.00	126.84	126.68	126.51	126.34	126.17
23.00	DISCHG	126.00	125.82	125.64	125.46	125.27	125.08	124.89	124.70	124.51	124.31
24.00	DISCHG	124.10	123.89	123.68	123.46	123.24	123.01	122.78	122.54	122.29	122.04
25.00	DISCHG	121.78	121.51	121.24	120.96	120.68	120.38	120.08	119.78	119.47	119.15
26.00	DISCHG	118.82	118.49	118.16	117.81	117.46	117.10	116.73	116.34	115.95	115.54
27.00	DISCHG	115.12	114.68	114.24	113.78	113.31	112.83	112.34	111.85	111.34	110.83
28.00	DISCHG	110.31	109.57	108.58	107.73	106.98	106.29	105.64	105.03	104.43	103.84
29.00	DISCHG	103.26	102.69	102.11	101.55	100.98	100.42	99.85	99.29	98.69	97.76

RUNOFF VOLUME ABOVE BASEFLOW = 2.26 WATERSHED INCHES, 7050.97 CFS-HRS, 582.69 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 4 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.66	191.34	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
1.67	1000.00	5730.50	
16.60	131.18*	5728.11	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 3

*** WARNING-MAIN TIME INCREMENT MAY BE TOO LARGE.
COMPUTED PEAK(192.16) AT XSECTION 3 EXCEEDS MAX. ADJACENT HYDROGRAPH COORDINATE BY 6 %.

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.65	192.16	(RUNOFF)

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .09 SQ.MI.

.00	DISCHG	.00	.00	.00	.52	14.51	84.81	181.24	178.08	131.91	98.58
1.00	DISCHG	76.96	66.76	55.17	40.14	29.09	22.39	20.09	19.35	19.10	19.01
2.00	DISCHG	18.99	15.19	6.64	2.24	.76	.25	.07	.01		

OPERATION ADDHYD CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
1.65	1019.57	5730.53	
16.60	131.18*	5728.11	* FIRST POINT OF FLAT PEAK

*** WARNING REACH 2 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.68	326.84	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.74	1153.84	5728.96	
1.20	1096.79	5728.60	
16.60	131.18*	5721.99	* FIRST POINT OF FLAT PEAK

*** WARNING REACH 2 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 1

*** WARNING-MAIN TIME INCREMENT MAY BE TOO LARGE.
COMPUTED PEAK(97.21) AT XSECTION 1 EXCEEDS MAX. ADJACENT HYDROGRAPH COORDINATE BY 6 %.

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.65	97.21	(RUNOFF)

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .04 SQ.MI.

.00	DISCHG	.00	.00	.00	.26	7.34	42.90	91.69	90.09	66.73	49.87
1.00	DISCHG	38.93	33.77	27.91	20.30	14.72	11.33	10.16	9.79	9.66	9.62
2.00	DISCHG	9.60	7.68	3.36	1.13	.39	.13	.04	.00		

OPERATION ADDHYD CROSS SECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.73	1238.55	5725.42	
1.17	1125.63	5722.37	
16.60	131.18*	5715.79	* FIRST POINT OF FLAT PEAK

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 5.21 SQ.MI.

.00	DISCHG	.00	.00	.09	6.32	92.15	473.45	1036.99	1228.24	1178.10	1124.23
1.00	DISCHG	1102.38	1117.91	1124.70	1103.48	1083.58	1070.37	1067.15	1064.79	1059.59	1050.85
2.00	DISCHG	1039.20	1010.11	955.14	909.08	873.74	842.47	813.47	786.35	760.83	736.68
3.00	DISCHG	713.71	691.82	670.62	649.88	629.80	610.53	592.20	572.95	554.87	538.18
4.00	DISCHG	522.78	508.53	495.30	482.97	471.44	460.65	450.56	441.13	432.31	424.05
5.00	DISCHG	416.30	408.97	402.03	395.43	389.13	383.11	377.24	371.43	365.73	360.19
6.00	DISCHG	354.83	349.67	344.71	339.92	335.31	330.87	326.57	322.42	317.79	312.51
7.00	DISCHG	307.64	303.12	298.87	294.79	290.77	286.72	282.59	278.38	274.09	269.76
8.00	DISCHG	265.40	261.04	256.66	252.26	247.78	243.10	238.15	232.95	227.53	222.00
9.00	DISCHG	216.42	210.88	205.83	200.93	196.15	191.54	187.08	182.73	178.43	174.18
10.00	DISCHG	170.01	165.98	162.13	158.51	155.15	152.05	149.24	146.70	144.43	142.41
11.00	DISCHG	140.63	139.06	137.69	136.50	135.47	134.58	133.82	133.17	132.62	132.15
12.00	DISCHG	131.76	131.44	131.17	130.95	130.77	130.63	130.52	130.44	130.38	130.34
13.00	DISCHG	130.31	130.30	130.30	130.31	130.32	130.35	130.37	130.40	130.44	130.48
14.00	DISCHG	130.51	130.55	130.60	130.64	130.68	130.72	130.75	130.79	130.83	130.86
15.00	DISCHG	130.90	130.93	130.96	130.99	131.02	131.04	131.07	131.09	131.11	131.12
16.00	DISCHG	131.14	131.15	131.16	131.17	131.18	131.18	131.18	131.18	131.18	131.17
17.00	DISCHG	131.17	131.16	131.15	131.13	131.11	131.09	131.07	131.05	131.02	130.99
18.00	DISCHG	130.96	130.93	130.89	130.85	130.81	130.76	130.71	130.66	130.61	130.56
19.00	DISCHG	130.50	130.44	130.38	130.31	130.24	130.17	130.10	130.02	129.95	129.87
20.00	DISCHG	129.78	129.70	129.61	129.52	129.43	129.33	129.23	129.13	129.03	128.92
21.00	DISCHG	128.81	128.69	128.58	128.46	128.34	128.23	128.11	127.99	127.86	127.73
22.00	DISCHG	127.60	127.45	127.31	127.16	127.00	126.84	126.68	126.51	126.34	126.17
23.00	DISCHG	126.00	125.82	125.64	125.46	125.27	125.08	124.89	124.70	124.51	124.31
24.00	DISCHG	124.10	123.89	123.68	123.46	123.24	123.01	122.78	122.54	122.29	122.04
25.00	DISCHG	121.78	121.51	121.24	120.96	120.68	120.38	120.08	119.78	119.47	119.15
26.00	DISCHG	118.82	118.49	118.16	117.81	117.46	117.10	116.73	116.34	115.95	115.54
27.00	DISCHG	115.12	114.68	114.24	113.78	113.31	112.83	112.34	111.85	111.34	110.83
28.00	DISCHG	110.31	109.57	108.58	107.73	106.98	106.29	105.64	105.03	104.43	103.84
29.00	DISCHG	103.26	102.69	102.11	101.55	100.98	100.42	99.85	99.29	98.69	97.76

RUNOFF VOLUME ABOVE BASEFLOW = 2.24 WATERSHED INCHES, 7532.50 CFS-HRS, 622.49 ACRE-FEET; BASEFLOW = .00 CFS

EXECUTIVE CONTROL OPERATION ENDCMP COMPUTATIONS COMPLETED FOR PASS 1 RECORD ID

EXECUTIVE CONTROL OPERATION ENDJOB RECORD ID

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 60	RUNOFF	.08	8	3	.10	.0	3.05	2.00	2.51	---	.67	223.41	2659.6
XSECTION 58	RUNOFF	.06	8	3	.10	.0	3.05	2.00	2.51	---	.64	183.21	2908.1
XSECTION 56	REACH	.06	8	3	.10	.0	3.05	2.00	2.52	5930.98	.77	165.35	2624.6
XSECTION 56	RUNOFF	.15	8	3	.10	.0	3.05	2.00	2.51	---	.62	447.73	3025.2
XSECTION 56	ADDHYD	.21	8	3	.10	.0	3.05	2.00	2.51	5932.02	.66	544.66	2581.3
XSECTION 56	ADDHYD	.29	8	3	.10	.0	3.05	2.00	2.51	5932.64	.66	767.82	2602.8
STRUCTURE 30	RESVOR	.29	8	3	.10	.0	3.05	2.00	2.51	5930.54	1.19	231.18	783.7
XSECTION 54	REACH	.29	8	3	.10	.0	3.05	2.00	2.52	5890.99	1.33	230.02	779.7
XSECTION 54	RUNOFF	.12	8	3	.10	.0	3.05	2.00	2.08	---	.68	257.28	2199.0
XSECTION 54	ADDHYD	.41	8	3	.10	.0	3.05	2.00	2.39	5881.31	.73	372.72	904.7
XSECTION 44	REACH	2.47	8	3	.10	.0	3.05	2.00	2.21	5880.89	14.70*	131.25*	53.2
XSECTION 44	RUNOFF	.02	8	3	.10	.0	3.05	2.00	2.65	---	.59	72.36	3445.9
XSECTION 44	ADDHYD	2.49	8	3	.10	.0	3.05	2.00	2.21	5880.89	14.70*	131.25*	52.8
XSECTION 54	ADDHYD	2.90	8	3	.10	.0	3.05	2.00	2.24	5881.48	.73	447.02	154.2
XSECTION 39	REACH	2.90	8	3	.10	.0	3.05	2.00	2.24	5852.85	1.36	407.12	140.4
XSECTION 36	RUNOFF	.09	8	3	.10	.0	3.05	2.00	2.59	---	.60	297.11	3376.2
XSECTION 36	REACH	.09	8	3	.10	.0	3.05	2.00	2.59	5859.29	.60	297.11	3376.2
XSECTION 39	REACH	.09	8	3	.10	.0	3.05	2.00	2.60	5852.33	.72	269.87	3066.7
XSECTION 36	RUNOFF	.10	8	3	.10	.0	3.05	2.00	2.53	---	.80	208.71	2108.1
XSECTION 36	ADDHYD	.19	8	3	.10	.0	3.05	2.00	2.56	5859.72	.74	467.22	2498.5
XSECTION 39	ADDHYD	3.09	8	3	.10	.0	3.05	2.00	2.26	5853.66	.82	709.16	229.8
XSECTION 42	RUNOFF	.08	8	3	.10	.0	3.05	2.00	2.01	---	.67	179.54	2137.4
XSECTION 40	REACH	.08	8	3	.10	.0	3.05	2.00	2.01	5863.06	.67	179.54	2137.4
XSECTION 39	REACH	.08	8	3	.10	.0	3.05	2.00	2.02	5851.88	.84	149.56	1780.5
XSECTION 40	RUNOFF	.14	8	3	.10	.0	3.05	2.00	1.83	---	.81	212.70	1508.5
XSECTION 40	ADDHYD	.22	8	3	.10	.0	3.05	2.00	1.90	5863.42	.82	361.51	1606.7
XSECTION 39	ADDHYD	3.31	8	3	.10	.0	3.05	2.00	2.23	5854.40	.82	1070.61	323.3
XSECTION 39	RUNOFF	.04	8	3	.10	.0	3.05	2.00	2.13	---	.61	117.63	2735.7
XSECTION 39	ADDHYD	3.35	8	3	.10	.0	3.05	2.00	2.23	5854.48	.81	1127.62	336.2
XSECTION 100	DIVERT	.67	8	3	.10	.0	3.05	2.00	4.97	5858.26	.81	182.21	271.6
XSECTION 101	DIVERT	2.68	8	3	.10	.0	3.05	2.00	1.55	5858.26	.81	945.41	352.3
XSECTION 39	REACH	.67	8	3	.10	.0	3.05	2.00	4.96	5851.97	1.00	174.37	259.9

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 30	RUNOFF	.14	8	3	.10	.0	3.05	2.00	2.59	---	.66	386.31	2779.2
XSECTION 28	REACH	.14	8	3	.10	.0	3.05	2.00	2.59	5925.44	.66	386.31	2779.2
XSECTION 28	RUNOFF	.11	8	3	.10	.0	3.05	2.00	2.59	---	.63	325.38	3012.8
XSECTION 28	ADDHYD	.25	8	3	.10	.0	3.05	2.00	2.59	5926.01	.64	717.97	2906.8
STRUCTURE 40	RESVOR	.25	8	3	.10	.0	3.05	2.00	2.59	5932.86	1.09	230.28	932.3
XSECTION 27	REACH	.25	8	3	.10	.0	3.05	2.00	2.59	5873.03	1.09	230.28	932.3
XSECTION 27	RUNOFF	.04	8	3	.10	.0	3.05	2.00	2.67	---	.61	115.30	3294.3
XSECTION 27	ADDHYD	.28	8	3	.10	.0	3.05	2.00	2.60	5873.11	.88	265.45	941.3
XSECTION 26	RUNOFF	.11	8	3	.10	.0	3.05	2.00	2.67	---	.62	352.45	3233.5
XSECTION 27	ADDHYD	.39	8	3	.10	.0	3.05	2.00	2.62	5873.86	.64	597.92	1529.2
XSECTION 26	REACH	.39	8	3	.10	.0	3.05	2.00	2.62	5868.97	.64	597.92	1529.2
XSECTION 39	ADDHYD	3.07	8	3	.10	.0	3.05	2.00	1.68	5854.89	.75	1423.87	463.2
STRUCTURE 29	RESVOR	3.07	8	3	.10	.0	3.05	2.00	1.68	5858.38	2.40	359.62	116.7
XSECTION 32	ADDHYD	3.74	8	3	.10	.0	3.05	2.00	2.27	5817.41	2.30	475.62	127.0
XSECTION 32	REACH	3.74	8	3	.10	.0	3.05	2.00	2.27	5817.40	2.44	474.40	126.7
XSECTION 25	RUNOFF	.05	8	3	.10	.0	3.05	2.00	2.52	---	.60	164.17	3283.3
XSECTION 25	ADDHYD	3.79	8	3	.10	.0	3.05	2.00	2.27	5831.64	2.44	474.44	125.0
XSECTION 32	RUNOFF	.08	8	3	.10	.0	3.05	2.00	2.31	---	.75	175.05	2109.0
XSECTION 24	ADDHYD	3.88	8	3	.10	.0	3.05	2.00	2.27	5832.11	1.09	553.85	142.8
XSECTION 24	REACH	3.88	8	3	.10	.0	3.05	2.00	2.27	5832.10	1.21	551.85	142.3
XSECTION 24	RUNOFF	.14	8	3	.10	.0	3.05	2.00	2.54	---	.63	430.12	3007.8
XSECTION 24	ADDHYD	4.02	8	3	.10	.0	3.05	2.00	2.28	5832.56	.75	722.35	179.6
XSECTION 18	RUNOFF	.10	8	3	.10	.0	3.05	2.00	1.90	---	.76	162.78	1661.0
XSECTION 16	REACH	.10	8	3	.10	.0	3.05	2.00	1.90	5851.96	1.07	107.16	1093.4
XSECTION 16	RUNOFF	.06	8	3	.10	.0	3.05	2.00	2.59	---	.63	198.92	3060.3
XSECTION 16	ADDHYD	.16	8	3	.10	.0	3.05	2.00	2.17	5852.84	.67	210.40	1290.9
XSECTION 34	RUNOFF	.07	8	3	.10	.0	3.05	2.00	1.86	---	.71	122.09	1822.2
XSECTION 33	REACH	.07	8	3	.10	.0	3.05	2.00	1.86	5848.63	.84	114.15	1703.7
XSECTION 33	RUNOFF	.08	8	3	.10	.0	3.05	2.00	2.39	---	.64	222.70	2749.4
XSECTION 33	ADDHYD	.15	8	3	.10	.0	3.05	2.00	2.15	5849.01	.71	282.06	1905.8
XSECTION 33	ADDHYD	.31	8	3	.10	.0	3.05	2.00	2.16	5849.48	.70	490.53	1577.3
XSECTION 14	REACH	.31	8	3	.10	.0	3.05	2.00	2.17	5853.22	.98	384.61	1236.7
XSECTION 14	RUNOFF	.07	8	3	.10	.0	3.05	2.00	2.26	---	.70	156.41	2300.1
XSECTION 14	ADDHYD	.38	8	3	.10	.0	3.05	2.00	2.18	5854.00	.90	476.34	1256.8

XSECTION	24	ADDHYD	4.40	8	3	.10	.0	3.05	2.00	2.27	5833.55	.35	1178.16	267.8
STRUCTURE	2	RESVOR	4.40	8	3	.10	.0	3.05	2.00	2.26	5825.28	1.30	984.29	223.7

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 12	REACH	4.40	8	3	.10	.0	3.05	2.00	2.26	5799.33	1.30	984.29	223.7
XSECTION 11	RUNOFF	.03	8	3	.10	.0	3.05	2.00	2.68	---	.59	111.20	3474.9
XSECTION 10	REACH	.03	8	3	.10	.0	3.05	2.00	2.69	5806.43	.70	107.61	3362.9
XSECTION 13	RUNOFF	.09	8	3	.10	.0	3.05	2.00	2.55	---	.60	285.95	3325.0
XSECTION 12	ADDHYD	.12	8	3	.10	.0	3.05	2.00	2.59	5797.69	.62	367.76	3116.6
XSECTION 12	ADDHYD	4.52	8	3	.10	.0	3.05	2.00	2.27	5799.54	1.21	1053.55	233.2
XSECTION 12	RUNOFF	.10	8	3	.10	.0	3.05	2.00	2.44	---	.69	255.41	2504.0
XSECTION 12	ADDHYD	4.62	8	3	.10	.0	3.05	2.00	2.28	5799.83	1.14	1140.45	246.9
XSECTION 6	REACH	4.62	8	3	.10	.0	3.05	2.00	2.28	5773.30	1.14	1140.45	246.9
XSECTION 6	RUNOFF	.08	8	3	.10	.0	3.05	2.00	1.99	---	.67	176.81	2104.9
XSECTION 6	ADDHYD	4.70	8	3	.10	.0	3.05	2.00	2.27	5773.45	.73	1246.54	265.0
XSECTION 8	RUNOFF	.08	8	3	.10	.0	3.05	2.00	2.02	---	.69	173.89	2070.1
XSECTION 6	ADDHYD	4.79	8	3	.10	.0	3.05	2.00	2.27	5773.68	.72	1418.23	296.2
XSECTION 9	RUNOFF	.05	8	3	.10	.0	3.05	2.00	2.20	---	.65	123.51	2375.2
XSECTION 8	ADDHYD	4.84	8	3	.10	.0	3.05	2.00	2.27	---	.71	1535.88	317.3
STRUCTURE 1	RESVOR	4.84	8	3	.10	.0	3.05	2.00	2.26	5778.69	1.69	980.08	202.5
XSECTION 4	REACH	4.84	8	3	.10	.0	3.05	2.00	2.26	5730.46	1.69	980.08	202.5
XSECTION 4	RUNOFF	.08	8	3	.10	.0	3.05	2.00	2.12	---	.66	191.34	2277.9
XSECTION 4	ADDHYD	4.92	8	3	.10	.0	3.05	2.00	2.26	5730.50	1.67	1000.00	203.1
XSECTION 3	RUNOFF	.09	8	3	.10	.0	3.05	2.00	2.00	---	.65	192.16	2260.7
XSECTION 4	ADDHYD	5.01	8	3	.10	.0	3.05	2.00	2.25	5730.53	1.65	1019.57	203.5
XSECTION 2	REACH	5.01	8	3	.10	.0	3.05	2.00	2.25	5728.12	1.65	1019.57	203.5
XSECTION 2	RUNOFF	.16	8	3	.10	.0	3.05	2.00	2.01	---	.68	326.84	2108.7
XSECTION 2	ADDHYD	5.16	8	3	.10	.0	3.05	2.00	2.24	5728.96	.74	1153.84	223.4
XSECTION 2	REACH	5.16	8	3	.10	.0	3.05	2.00	2.24	5728.96	.74	1153.84	223.4
XSECTION 1	RUNOFF	.04	8	3	.10	.0	3.05	2.00	2.00	---	.65	97.21	2260.7
XSECTION 1	ADDHYD	5.21	8	3	.10	.0	3.05	2.00	2.24	5725.42	.73	1238.55	237.9

SUMMARY TABLE 2 - SELECTED MODIFIED ATT-KIN REACH ROUTINGS IN ORDER OF STANDARD EXECUTIVE CONTROL INSTRUCTIONS
(A STAR(*) AFTER VOLUME ABOVE BASE(IN) INDICATES A HYDROGRAPH TRUNCATED AT A VALUE EXCEEDING BASE + 10% OF PEAK
A QUESTION MARK(?) AFTER COEFF.(C) INDICATES PARAMETERS OUTSIDE ACCEPTABLE LIMITS, SEE PREVIOUS WARNINGS)

		HYDROGRAPH INFORMATION							ROUTING PARAMETERS										PEAK	
		INFLOW		OUTFLOW		OUTFLOW+ INTERV.AREA						Q AND A EQUATION							TRAVEL TIME	
XSEC ID	REACH LENGTH (FT)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	BASE-FLOW (CFS)	VOLUME ABOVE BASE (IN)	MAIN TIME INCR (HR)	ITER-ATION #	COEFF (X)	POWER (M)	LENGTH FACTOR (K*)	PEAK RATIO O/I (Q*)	S/Q @PEAK (K) (SEC)	ATT-KIN COEFF (C)	STOR-AGE (HR)	KINE-MATIC (HR)
ALTERNATE	1	STORM	1																
56	2700	177	.6	163	.8	535	.7	0	2.51	.10	1	1.14	1.51	.093	.920	285	.77?	.20	.08
54	2380	231	1.2	230	1.3	369	.7	0	2.51	.10	1	.859	1.48	.016	.994	308	.74?	.10	.09
44	700	131	14.7	131	14.7	131	14.7	0	2.21*	.10	0	1.11	1.55	.000	1.000	74	1.00?	.00	.00
39	3400	445	.7	407	1.4	---	---	0	2.24*	.10	1	.217	1.49	.008	.914	857	.35	.70	.24
36	1080	297	.6	297	.6	---	---	0	2.59	.10	0	2.21	1.38	.026	1.000	91	1.00?	.00	.00
39	1050	297	.6	268	.7	708	.8	0	2.59	.10	1	.204	1.50	.126	.903	299	.75?	.10	.08
40	3120	177	.7	177	.7	---	---	0	2.01	.10	0	1.92	1.63	.035	1.000	174	1.00?	.00	.00
39	1450	177	.7	147	.8	1067	.8	0	2.01	.10	1	.189	1.52	.185	.831	482	.54	.10	.14
39	1200	182	.8	174	1.0	---	---	0	4.97	.10	1	.190	1.52	.002	.957	395	.63	.20	.11
28	1800	377	.7	377	.7	687	.6	0	2.59	.10	0	1.34	1.42	.046	1.000	178	1.00?	.00	.00
27	1400	230	1.1	230	1.1	265	.9	0	2.59	.10	0	1.46	1.48	.005	1.000	125	1.00?	.00	.00
26	1000	581	.6	581	.6	---	---	0	2.62	.10	0	1.22	1.38	.010	1.000	107	1.00?	.00	.00
32	1250	476	2.3	474	2.4	---	---	0	2.27	.10	1	.219	1.48	.001	.997	325	.71?	.10	.09
24	1250	554	1.1	552	1.2	707	.7	0	2.27*	.10	1	.256	1.47	.001	.996	281	.78?	.10	.08
16	3100	161	.8	107	1.1	209	.7	0	1.90	.10	1	.392	1.37	.474	.665	1138	.27	.30	.33
33	2700	122	.7	111	.8	281	.7	0	1.86	.10	1	.960	1.59	.076	.913	295	.76?	.10	.08
14	2800	491	.7	384	1.0	476	.9	0	2.16	.10	1	.405	1.36	.220	.783	770	.38	.30	.22
12	1350	984	1.3	984	1.3	---	---	0	2.26	.10	0	3.65	1.39	.000	1.000	55	1.00?	.00	.00
10	2300	111	.6	108	.7	---	---	0	2.68	.10	1	2.94	1.35	.090	.969	223	.89?	.10	.06
6	1400	1138	1.1	1138	1.1	1239	.7	0	2.28	.10	0	.360	1.53	.001	1.000	156	1.00?	.00	.00
4	2100	980	1.7	980	1.7	1000	1.7	0	2.26	.10	0	3.80	1.41	.000	1.000	78	1.00?	.00	.00
2	500	1019	1.7	1019	1.7	1138	.7	0	2.25	.10	0	5.14	1.29	.000	1.000	23	1.00?	.00	.00
2	1120	1138	.7	1138	.7	---	---	0	2.24	.10	0	6.15	1.22	.001	1.000	58	1.00?	.00	.00

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
STRUCTURE 40	.25	
ALTERNATE 1		230.28
STRUCTURE 30	.29	
ALTERNATE 1		231.10
STRUCTURE 29	3.07	
ALTERNATE 1		358.62
STRUCTURE 2	4.40	
ALTERNATE 1		984.29
STRUCTURE 1	4.84	
ALTERNATE 1		980.08
XSECTION 1	5.21	
ALTERNATE 1		1238.55
XSECTION 2	5.16	
ALTERNATE 1		1153.84
XSECTION 3	.09	
ALTERNATE 1		192.16
XSECTION 4	5.01	
ALTERNATE 1		1019.57
XSECTION 6	4.79	
ALTERNATE 1		1418.23
XSECTION 8	4.84	
ALTERNATE 1		1535.88
XSECTION 9	.05	
ALTERNATE 1		123.51
XSECTION 10	.09	
ALTERNATE 1		285.95
XSECTION 11	.03	
ALTERNATE 1		111.20

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 12	4.62	
ALTERNATE 1		1140.45
XSECTION 14	.38	
ALTERNATE 1		476.34
XSECTION 16	.16	
ALTERNATE 1		210.40
XSECTION 18	.10	
ALTERNATE 1		162.78
XSECTION 24	4.40	
ALTERNATE 1		1178.16
XSECTION 25	3.79	
ALTERNATE 1		474.44
XSECTION 26	.39	
ALTERNATE 1		597.92
XSECTION 27	.39	
ALTERNATE 1		597.92
XSECTION 28	.25	
ALTERNATE 1		717.97
XSECTION 30	.14	
ALTERNATE 1		386.31
XSECTION 32	.08	
ALTERNATE 1		175.05
XSECTION 33	.31	
ALTERNATE 1		490.53
XSECTION 34	.07	
ALTERNATE 1		122.09
XSECTION 36	.19	
ALTERNATE 1		467.22

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 38	.09	
ALTERNATE 1		297.11
XSECTION 39	3.07	
ALTERNATE 1		1423.87
XSECTION 40	.22	
ALTERNATE 1		361.51
XSECTION 42	.08	
ALTERNATE 1		179.54
XSECTION 44	2.49	
ALTERNATE 1		131.25
XSECTION 54	2.90	
ALTERNATE 1		447.02
XSECTION 56	.29	
ALTERNATE 1		767.82
XSECTION 58	.06	
ALTERNATE 1		183.21
XSECTION 60	.08	
ALTERNATE 1		223.41
XSECTION 100	.67	
ALTERNATE 1		182.21
XSECTION 101	2.68	
ALTERNATE 1		945.41

MAIN - UNEXPECTED RECORD FOUND(IGNORED) >>> <<<

```
*******************80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY******************

JOB TR-20                                          SUMMARY   NOPLOTS
TITLE 001  WINDMILL GULCH  TR20 RUN  24 HR. 10 YR. STORM
TITLE      FUTURE CONDITIONS W/ AMC II        W624FU2
 5 RAINFL 7                0.25
 8              0.0000     0.0005     0.0015     0.0030     0.0045
 8              0.0060     0.0080     0.0100     0.0120     0.0143
 8              0.0165     0.0188     0.0210     0.0233     0.0255
 8              0.0278     0.0320     0.0390     0.0460     0.0530
 8              0.0600     0.0750     0.1000     0.4000     0.7000
 8              0.7250     0.7500     0.7650     0.7800     0.7900
 8              0.8000     0.8100     0.8200     0.8250     0.8300
 8              0.8350     0.8400     0.8450     0.8500     0.8550
 8              0.8600     0.8638     0.8675     0.8713     0.8750
 8              0.8788     0.8825     0.8863     0.8900     0.8938
 8              0.8975     0.9013     0.9050     0.9083     0.9115
 8              0.9148     0.9180     0.9210     0.9240     0.9270
 8              0.9300     0.9325     0.9350     0.9375     0.9400
 8              0.9425     0.9450     0.9475     0.9500     0.9525
 8              0.9550     0.9575     0.9600     0.9625     0.9650
 8              0.9675     0.9700     0.9725     0.9750     0.9775
 8              0.9800     0.9813     0.9825     0.9838     0.9850
 8              0.9863     0.9875     0.9888     0.9900     0.9913
 8              0.9925     0.9938     0.9950     0.9963     0.9975
 8              0.9988     1.0000     1.0000     1.0000     1.0000
 9 ENDTBL
 2 XSECTN   001              1.0
 8                        5713.8        0.0        0.0
 8                        5714.8       35.0       3.93
 8                        5716.8      230.0      19.63
 8                        5718.8      580.0      39.27
 8                        5720.8     1000.0      58.90
 8                        5722.8     1160.0      74.60
 8                        5725.8     1250.0      79.00
 9 ENDTBL
 2 XSECTN   002              1.0
 8                        5720.0        0.0        0.0
 8                        5721.0       35.0       3.93
 8                        5723.0      230.0      19.63
 8                        5725.0      580.0      39.27
 8                        5728.0     1000.0      58.90
 8                        5729.0     1160.0      74.60
 8                        5732.0     1250.0      79.0
 9 ENDTBL
 2 XSECTN   004              1.0
 8                        5727.0        0.0        0.0
 8                        5727.3       10.0       2.25
```

```
8                    5727.7      50.0       6.37
8                    5728.0     100.0      10.16
8                    5729.4     500.0      31.36
8                    5730.5    1000.0      51.94
8                    5731.9    2000.0      86.88
9 ENDTBL
2 XSECTN   006         1.0
8                    5770.0       0.0       0.0
8                    5770.7      50.0      26.0
8                    5771.2     160.8      54.0
8                    5772.2     526.6     116.0
8                    5773.2    1070.1     186.0
8                    5774.2    1788.9     264.0
9 ENDTBL
2 XSECTN   010         1.0
8                    5805.0       0.0       0.0
8                    5806.0      50.0       8.10
8                    5806.4     100.0      13.51
8                    5807.9     500.0      44.28
8                    5808.9    1000.0      75.23
9 ENDTBL
2 XSECTN   012         1.0
8                    5793.4       0.0       0.0
8                    5794.4      40.0       4.52
8                    5797.4     260.0      22.60
8                    5799.4    1010.0      56.55
8                    5802.4    1920.0      93.87
8                    5804.4    2020.0     107.45
8                    5807.4    2200.0     115.00
9 ENDTBL
2 XSECTN   014         1.0
8                    5847.8       0.0       0.0
8                    5849.9      50.0      34.41
8                    5850.8     100.0      57.00
8                    5854.2     500.0     186.35
8                    5856.4    1000.0     310.53
9 ENDTBL
2 XSECTN   016         1.0
8                    5848.9       0.0       0.0
8                    5851.0      50.0      34.41
8                    5851.9     100.0      57.00
8                    5855.3     500.0     186.35
8                    5856.5    1000.0     310.53
9 ENDTBL
2 XSECTN   020         1.0
8                    5853.0       0.0       0.0
```

```
8                       5854.0       50.0       8.7
8                       5854.5      100.0      14.59
8                       5856.0      500.0      48.00
9 ENDTBL
2 XSECTN   024            1.0
8                       5830.0        0.0       0.0
8                       5830.6       50.0      35.69
8                       5830.9      100.0      56.02
8                       5833.3     1000.0     276.50
8                       5834.7     2000.0     457.72
9 ENDTBL
2 XSECTN   025            1.0
8                       5830.0        0.0       0.0
8                       5830.5       50.0      10.81
8                       5830.7      100.0      17.15
8                       5831.7      500.0      51.93
8                       5832.5     1000.0      85.25
8                       5833.5     2000.0     140.38
9 ENDTBL
2 XSECTN   026            1.0
8                       5865.0        0.0       0.0
8                       5866.1       50.0      14.68
8                       5866.6      100.0      24.08
8                       5868.7      500.0      77.00
8                       5870.1     1000.0     128.77
9 ENDTBL
2 XSECTN   027            1.0
8                       5872.0        0.0       0.0
8                       5872.5       50.0      10.81
8                       5872.7      100.0      17.15
8                       5873.7      500.0      51.93
8                       5874.5     1000.0      85.25
8                       5875.5     2000.0     140.38
9 ENDTBL
2 XSECTN   028            1.0
8                       5924.0        0.0       0.0
8                       5924.5       50.0      12.79
8                       5924.8      100.0      20.62
8                       5925.7      500.0      64.86
8                       5926.4     1000.0     107.50
8                       5927.4     2000.0     178.86
9 ENDTBL
2 XSECTN   032            1.0
8                       5815.0        0.0       0.0
8                       5815.7       50.0      39.80
8                       5816.0      100.0      62.94
```

```
8                       5817.5      500.0      188.77
8                       5818.6     1000.0      311.58
8                       5820.1     2000.0      516.73
9 ENDTBL
2 XSECTN   033            1.0
8                       5848.0        0.0        0.0
8                       5848.4       50.0       12.04
8                       5848.6      100.0       18.61
8                       5849.5      500.0       52.69
8                       5850.2     1000.0       84.12
9 ENDTBL
2 XSECTN   036            1.0
8                       5858.0        0.0        0.0
8                       5858.3       10.0        3.09
8                       5858.6       50.0        9.41
8                       5858.8      100.0       15.54
8                       5859.8      500.0       50.93
8                       5860.5     1000.0       85.65
9 ENDTBL
2 XSECTN   039            1.0
8                       5850.8        0.0        0.0
8                       5851.1       10.0       13.62
8                       5851.5       50.0       38.01
8                       5853.2      500.0      180.82
8                       5854.3     1000.0      293.74
8                       5855.7     2000.0      483.89
9 ENDTBL
2 XSECTN   040            1.0
8                       5862.4        0.0        0.0
8                       5862.7       50.0        7.41
8                       5862.9      100.0       11.34
8                       5863.7      500.0       30.51
8                       5864.4     1000.0       47.25
9 ENDTBL
2 XSECTN   044            1.0
8                       5880.0        0.0        0.0
8                       5880.2       10.0        4.16
8                       5880.5       50.0       11.47
8                       5880.8      100.0       17.96
8                       5881.9      500.0       53.20
8                       5882.8     1000.0       86.99
9 ENDTBL
2 XSECTN   046            1.0
8                       5898.0        0.0        0.0
8                       5898.5       50.0       12.12
8                       5898.7      100.0       19.52
```

```
8                       5899.7       500.0       60.70
9 ENDTBL
2 XSECTN   050            1.0
8                       5898.0         0.0         0.0
8                       5898.2        10.0        4.06
8                       5898.5        50.0       11.93
8                       5898.7       100.0       19.23
8                       5899.7       500.0       59.99
9 ENDTBL
2 XSECTN   054            1.0
8                       5880.0         0.0         0.0
8                       5880.5        50.0       15.56
8                       5880.7       100.0       24.65
8                       5881.6       500.0       75.57
9 ENDTBL
2 XSECTN   056            1.0
8                       5930.0         0.0         0.0
8                       5930.2        10.0        4.32
8                       5930.5        50.0       11.96
8                       5930.8       100.0       19.04
8                       5931.9       500.0       57.76
9 ENDTBL
2 XSECTN   060            1.0
8                       5930.0         0.0         0.0
8                       5930.9        50.0       10.46
8                       5931.2       100.0       17.36
8                       5932.3       500.0       58.34
9 ENDTBL
2 XSECTN   100            1.0
8                       5854.5         0.0         0.0
8                       5856.0        45.0        12.0
8                       5857.0        98.0        25.0
8                       5858.0       162.0        28.0
8                       5860.0       320.0        44.0
9 ENDTBL
2 XSECTN   101            1.0
8                       5856.0         0.0         0.0
8                       5857.0       137.0        62.5
8                       5858.0       712.0       187.5
8                       5860.0      2537.0       437.5
9 ENDTBL
3 STRUCT      01
8                       5770.0         0.0         0.0
8                       5771.0        50.0        1.24
8                       5772.0       110.0        2.48
8                       5773.0       210.0        7.05
```

```
8                    5774.0      320.0      11.62
8                    5776.0      590.0      27.55
8                    5778.0      875.0      46.69
8                    5780.0     1180.0      67.21
8                    5782.0     1500.0      89.71
8                    5783.0     1795.0     101.86
9 ENDTBL
3 STRUCT      02
8                    5815.0        0.0       0.0
8                    5817.0       85.0       0.85
8                    5819.0      240.0       3.19
8                    5820.0      340.0       4.90
8                    5821.0      420.0       7.08
8                    5822.0      520.0       9.73
8                    5823.0      [illegible].0      12.97
8                    5825.0      925.0      21.76
8                    5827.0     1346.0      33.95
8                    5829.0     1860.0      50.59
8                    5830.0     3600.0      60.93
9 ENDTBL
3 STRUCT      29
8                    5844.0        0.0       0.0
8                    5846.0       30.0       0.62
8                    5848.0       90.0       3.13
8                    5850.0      155.0       9.11
8                    5852.0      205.0      20.08
8                    5856.0      290.0      57.59
8                    5858.0      320.0      81.28
8                    5860.0      525.0     106.44
8                    5862.0      870.0     135.0
9 ENDTBL
3 STRUCT      30
8                    5922.0        0.0       0.0
8                    5924.0       50.0       0.52
8                    5926.0      105.0       3.15
8                    5928.0      160.0       9.12
8                    5930.0      205.0      17.34
8                    5934.0      400.0      35.98
9 ENDTBL
3 STRUCT      40
8                    5926.0        0.0       0.0
8                    5928.0       50.0       0.5
8                    5930.0      105.0       4.7
8                    5934.0      280.0      20.7
8                    5938.0      485.0      39.3
8                    5940.0      690.0      49.3
```

```
9 ENDTBL
6 RUNOFF 1 060       7     0.084      88.0     0.28        1
6 RUNOFF 1 058       6     0.063      88.0     0.24        1
6 REACH  3 056   6   5  2700.
6 RUNOFF 1 056       4     0.148      88.0     0.22        1
6 ADDHYD 4 056   4 5 6                                      1
6 ADDHYD 4 056   7 6 5                                      1 1   1
6 RESVOR 2    30 5   4  5922.0                              1 1   1
6 REACH  3 054   4   6  2380.
6 RUNOFF 1 054       7     0.117      79.4     0.26        1
6 ADDHYD 4 054   6 7 4                                      1
6 REACH  3 044   1   7   700.                               1
6 RUNOFF 1 044       5     0.021      91.4     0.17        1
6 ADDHYD 4 044   7 5 6                                      1
6 ADDHYD 4 054   6 4 5                                      1
6 REACH  3 039   5   3  3400.
6 RUNOFF 1 038       7     0.088      90.0     0.17        1
6 REACH  3 036   7   5  1080.
6 REACH  3 039   5   6  1050.
6 RUNOFF 1 036       4     0.099      88.3     0.46        1
6 ADDHYD 4 036   4 6 7                                      1
6 ADDHYD 4 039   3 7 5                                      1
6 RUNOFF 1 042       6     0.084      78.1     0.25        1
6 REACH  3 040   6   7  3120.
6 REACH  3 039   7   3  1450.
6 RUNOFF 1 040       4     0.141      74.5     0.42        1
6 ADDHYD 4 040   3 4 6                                      1
6 ADDHYD 4 039   5 6 7                                      1
6 RUNOFF 1 039       4     0.043      80.3     0.17        1
6 ADDHYD 4 039   7 4 5                                      1 1   1
6 DIVERT 6 100   5 6 2                0.2     101.         1
6 REACH  3 039   6   1  1200.                               1
6 RUNOFF 1 030       5     0.139      90.0     0.27        1
6 REACH  3 028   5   7  1800.
6 RUNOFF 1 028       4     0.108      90.0     0.24        1
6 ADDHYD 4 028   4 7 5                                      1
6 RESVOR 2    40 5   7   5926.0                             1 1   1
6 REACH  3 027   7   4  1400.
6 RUNOFF 1 027       7     0.035      92.0     0.21        1
6 ADDHYD 4 027   4 7 5                                      1
6 RUNOFF 1 026       4     0.109      92.0     0.22        1
6 ADDHYD 4 027   4 5 7                                      1
6 REACH  3 026   7   5  1000.0
6 ADDHYD 4 039   5 2 7                                      1
6 RESVOR 2    29 7   4  5844.0                              1 1   1
6 ADDHYD 4 032   4 1 5                                      1
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)*********************

 6 REACH  3 032   5   6  1250.
 6 RUNOFF 1 025       4     0.050      88.2     0.17        1
 6 ADDHYD 4 025   6 4 5                                      1
 6 RUNOFF 1 032       7     0.083      83.5     0.38        1
 6 ADDHYD 4 024   5 7 4                                      1
 6 REACH  3 024   4   6  1250.
 6 RUNOFF 1 024       7     0.143      88.9     0.23        1
 6 ADDHYD 4 024   6 7 5                                      1
 6 RUNOFF 1 018       6     0.098      75.8     0.37        1
 6 REACH  3 016   6   7  3100.
 6 RUNOFF 1 016       6     0.065      89.9     0.23        1
 6 ADDHYD 4 016   6 7 3                                      1
 6 RUNOFF 1 034       6     0.067      75.0     0.30        1
 6 REACH  3 033   6   7  2700.
 6 RUNOFF 1 033       6     0.081      85.0     0.24
 6 ADDHYD 4 033   7 6 1                                      1
 6 ADDHYD 4 033   3 1 4                                      1
 6 REACH  3 014   4   6  2800.
 6 RUNOFF 1 014       4     0.068      82.7     0.30        1
 6 ADDHYD 4 014   4 6 7                                      1
 6 ADDHYD 4 024   7 5 4                                      1
 6 RESVOR 2    02 4   6   5815.0                             1 1   1
 6 REACH  3 012   6   7  1350.
 6 RUNOFF 1 011       5     0.032      92.0     0.17        1
 6 REACH  3 010   5   4  2300.
 6 RUNOFF 1 010       5     0.086      89.0     0.17        1
 6 ADDHYD 4 012   4 5 6                                      1
 6 ADDHYD 4 012   6 7 5                                      1
 6 RUNOFF 1 012       7     0.102      86.1     0.30        1
 6 ADDHYD 4 012   7 5 6                                      1
 6 REACH  3 006   6   7  1400.
 6 RUNOFF 1 006       5     0.084      77.6     0.25        1
 6 ADDHYD 4 006   5 7 6                                      1
 6 RUNOFF 1 008       7     0.084      78.2     0.28        1
 6 ADDHYD 4 006   7 6 5                                      1
 6 RUNOFF 1 009       6     0.052      81.6     0.25        1
 6 ADDHYD 4 008   5 6 4                                      1
 6 RESVOR 2    01 4   7   5770.0                             1 1   1
 6 REACH  3 004   7   6  2100.
 6 RUNOFF 1 004       5     0.084      80.2     0.25        1
 6 ADDHYD 4 004   5 6 7                                      1
 6 RUNOFF 1 003       5     0.085      78.0     0.23        1
 6 ADDHYD 4 004   7 5 4                                      1
 6 REACH  3 002   4   6   500.
 6 RUNOFF 1 002       7     0.155      78.0     0.26        1
 6 ADDHYD 4 002   7 6 4                                      1
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)**********************

6 REACH  3 002   4   6  1120.
6 RUNOFF 1 001       5     0.043      78.0     0.23        1
6 ADDHYD 4 001   6 5 7                                    1 1   1
  ENDATA
7 READHD 8     1                                                   STR   50
7 READHD 9        .0000       .1000      2.4660       .0000          A 1  S 1
8                   .00         .00         .00         .00         .00      1
8                   .00         .00         .00         .00         .00      2
8                   .00         .00         .00         .00         .00      3
8                   .00         .00         .00         .00         .00      4
8                   .00         .00         .00         .00         .01      5
8                   .01         .01         .02         .03         .03      6
8                   .04         .05         .06         .07         .08      7
8                   .10         .11         .12         .14         .16      8
8                   .17         .19         .21         .23         .25      9
8                   .28         .30         .32         .34         .37     10
8                   .39         .42         .45         .47         .50     11
8                   .54         .75        1.88        5.32       10.69     12
8                 17.64       26.88       37.07       47.25       58.38     13
8                 66.44       72.08       76.03       78.87       80.96     14
8                 82.52       83.75       84.77       85.62       86.35     15
8                 86.99       87.59       88.18       88.79       89.42     16
8                 90.09       90.79       91.50       92.18       92.81     17
8                 93.14       93.34       93.52       93.70       93.88     18
8                 94.06       94.25       94.43       94.62       94.82     19
8                 95.01       95.21       95.42       95.62       95.83     20
8                 96.05       96.26       96.48       96.69       96.90     21
8                 97.11       97.31       97.51       97.71       97.91     22
8                 98.12       98.32       98.53       98.74       98.95     23
8                 99.16       99.37       99.59       99.80      100.02     24
8                100.23      100.45      100.67      100.89      101.11     25
8                101.33      101.55      101.77      101.99      102.22     26
8                102.44      102.66      102.88      103.09      103.31     27
8                103.52      103.72      103.93      104.13      104.33     28
8                104.53      104.73      104.92      105.12      105.31     29
8                105.50      105.68      105.87      106.05      106.23     30
8                106.41      106.58      106.76      106.93      107.09     31
8                107.26      107.41      107.57      107.72      107.87     32
8                108.02      108.16      108.31      108.45      108.59     33
8                108.73      108.87      109.00      109.13      109.26     34
8                109.39      109.52      109.64      109.77      109.89     35
8                110.01      110.12      110.24      110.35      110.46     36
8                110.56      110.67      110.77      110.87      110.96     37
8                111.06      111.15      111.24      111.32      111.41     38
8                111.49      111.56      111.64      111.71      111.78     39
8                111.85      111.91      111.97      112.03      112.08     40
```

**********80-80 LIST OF INPUT DATA (CONTINUED)**********

```
8                112.14     112.19     112.23     112.26     112.29     41
8                112.30     112.31     112.31     112.30     112.29     42
8                112.28     112.27     112.25     112.22     112.20     43
8                112.17     112.14     112.11     112.07     112.04     44
8                112.00     111.95     111.90     111.86     111.80     45
8                111.75     111.69     111.63     111.57     111.51     46
8                111.44     111.37     111.29     111.22     111.14     47
8                111.06     110.98     110.89     110.80     110.71     48
8                110.62     110.52     110.42     110.31     110.18     49
8                110.05     109.91     109.77     109.62     109.46     50
8                109.30     109.13     108.95     108.76     108.56     51
8                108.35     108.14     107.91     107.68     107.44     52
8                107.20     106.95     106.69     106.42     106.15     53
8                105.87     105.58     105.29     104.99     104.69     54
8                104.38     104.06     103.74     103.42     103.09     55
8                102.76     102.42     102.07     101.72     101.37     56
8                101.01     100.65     100.29      99.92      99.55     57
8                 99.17      98.79      98.41      98.02      97.63     58
8                 97.24      96.85      96.45      96.05      95.64     59
8                 95.24      94.83      94.42      94.01      93.59     60
9 ENDTBL
7 INCREM 6                0.10
7 COMPUT 7 060   001      0.0         3.00       1.0    7 2  01  01
  ENDCMP 1
  ENDJOB 2
```

**********END OF 80-80 LIST**********

EXECUTIVE CONTROL OPERATION READHD DISCHARGE HYDROGRAPH, HYDROGRAPH LOCATION 1 RECORD ID STR 50

STARTING TIME= .00 TIME INCREMENT= .10 DRAINAGE AREA= 2.47 BASE FLOW= .00

```
8                 .00        .00        .00        .00        .00
8                 .00        .00        .00        .00        .00
8                 .00        .00        .00        .00        .00
8                 .00        .00        .00        .00        .00
8                 .00        .00        .00        .00        .01
8                 .01        .01        .02        .03        .03
8                 .04        .05        .06        .07        .08
8                 .10        .11        .12        .14        .16
8                 .17        .19        .21        .23        .25
8                 .28        .30        .32        .34        .37
8                 .39        .42        .45        .47        .50
8                 .54        .75       1.88       5.32      10.69
8                17.64      26.88      37.07      47.25      58.38
8                66.44      72.08      76.03      78.87      80.96
8                82.52      83.75      84.77      85.62      86.35
8                86.99      87.59      88.18      88.79      89.42
8                90.09      90.79      91.50      92.18      92.81
8                93.14      93.34      93.52      93.70      93.88
8                94.06      94.25      94.43      94.62      94.82
8                95.01      95.21      95.42      95.62      95.83
```

8	96.05	96.26	96.48	96.69	96.90
8	97.11	97.31	97.51	97.71	97.91
8	98.12	98.32	98.53	98.74	98.95
8	99.16	99.37	99.59	99.80	100.02
8	100.23	100.45	100.67	100.89	101.11
8	101.33	101.55	101.77	101.99	102.22
8	102.44	102.66	102.88	103.09	103.31
8	103.52	103.72	103.93	104.13	104.33
8	104.53	104.73	104.92	105.12	105.31
8	105.50	105.68	105.87	106.05	106.23
8	106.41	106.58	106.76	106.93	107.09
8	107.26	107.41	107.57	107.72	107.87
8	108.02	108.16	108.31	108.45	108.59
8	108.73	108.87	109.00	109.13	109.26
8	109.39	109.52	109.64	109.77	109.89
8	110.01	110.12	110.24	110.35	110.46
8	110.56	110.67	110.77	110.87	110.96
8	111.06	111.15	111.24	111.32	111.41
8	111.49	111.56	111.64	111.71	111.78
8	111.85	111.91	111.97	112.03	112.08
8	112.14	112.19	112.23	112.26	112.29
8	112.30	112.31	112.31	112.30	112.29
8	112.28	112.27	112.25	112.22	112.20

```
B              112.17     112.14     112.11     112.07     112.04
B              112.00     111.95     111.90     111.86     111.80
B              111.75     111.69     111.63     111.57     111.51
B              111.44     111.37     111.29     111.22     111.14
B              111.06     110.98     110.89     110.80     110.71
B              110.62     110.52     110.42     110.31     110.18
B              110.05     109.91     109.77     109.62     109.46
B              109.30     109.13     108.95     108.76     108.56
B              108.35     108.14     107.91     107.68     107.44
B              107.20     106.95     106.69     106.42     106.15
B              105.87     105.58     105.29     104.99     104.69
B              104.38     104.06     103.74     103.42     103.09
B              102.76     102.42     102.07     101.72     101.37
B              101.01     100.65     100.29      99.92      99.55
B               99.17      98.79      98.41      98.02      97.63
B               97.24      96.85      96.45      96.05      95.64
B               95.24      94.83      94.42      94.01      93.59
9 ENDTBL


EXECUTIVE CONTROL OPERATION INCREM     MAIN TIME INCREMENT =   .10 HOURS                                    RECORD ID


EXECUTIVE CONTROL OPERATION COMPUT     FROM XSECTION  60  TO XSECTION   1                                   RECORD ID
       STARTING TIME =   .00    RAIN DEPTH =  3.00    RAIN DURATION=  1.00    RAIN TABLE NO.= 7    ANT. MOIST. COND= 2
       ALTERNATE NO.= 1         STORM NO.= 1    MAIN TIME INCREMENT =   .10 HOURS


OPERATION RUNOFF   CROSS SECTION  60

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
              6.04                         126.25                       (RUNOFF)
              7.91                           5.52                       (RUNOFF)


OPERATION RUNOFF   CROSS SECTION  58

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
              6.02                          98.88                       (RUNOFF)
              7.95                           4.19                       (RUNOFF)

     ***  WARNING  REACH  56 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT  ***


OPERATION RUNOFF   CROSS SECTION  56
```

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.00	237.95	(RUNOFF)
7.93	9.73	(RUNOFF)
9.95	4.96	(RUNOFF)
19.87	2.53	(RUNOFF)
23.78	1.31	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.03	313.37	5931.39
7.95	14.00	5930.23
9.95	7.06	5930.14
19.88	3.61	5930.07
23.80	1.85	5930.04

OPERATION ADDHYD CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.04	439.54	5931.73
7.94	19.39	5930.27
9.95	9.86	5930.20
12.81	7.50	5930.15
19.87	5.05	5930.10
23.80	2.59	5930.05

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .29 SQ.MI.

5.00	DISCHG	.00	.00	.00	.00	.00	.24	17.68	105.57	232.54	347.53
6.00	DISCHG	433.05	419.33	268.86	150.80	91.85	65.46	51.67	40.30	33.65	30.65
7.00	DISCHG	29.47	27.64	24.01	21.43	20.19	19.66	19.46	19.39	19.38	19.39
8.00	DISCHG	19.39	18.01	14.49	11.92	10.67	10.12	9.90	9.81	9.78	9.77
9.00	DISCHG	9.77	9.78	9.78	9.79	9.79	9.80	9.80	9.81	9.81	9.82
10.00	DISCHG	9.82	9.48	8.62	8.00	7.64	7.45	7.38	7.42	7.45	7.41
11.00	DISCHG	7.36	7.36	7.42	7.46	7.43	7.37	7.37	7.43	7.47	7.44
12.00	DISCHG	7.39	7.39	7.45	7.49	7.46	7.40	7.40	7.46	7.50	7.47
13.00	DISCHG	7.41	7.27	6.96	6.74	6.58	6.47	6.44	6.49	6.53	6.50
14.00	DISCHG	6.44	6.35	6.19	6.08	6.03	6.01	6.00	6.00	6.00	6.00
15.00	DISCHG	6.00	5.85	5.49	5.23	5.10	5.04	5.02	5.01	5.01	5.01
16.00	DISCHG	5.01	5.01	5.01	5.01	5.01	5.01	5.02	5.02	5.02	5.02
17.00	DISCHG	5.02	5.02	5.02	5.02	5.02	5.03	5.03	5.03	5.03	5.03
18.00	DISCHG	5.03	5.03	5.03	5.03	5.03	5.04	5.04	5.04	5.04	5.04
19.00	DISCHG	5.04	5.04	5.04	5.04	5.04	5.05	5.05	5.05	5.05	5.05
20.00	DISCHG	5.05	4.69	3.81	3.17	2.79	2.59	2.52	2.55	2.59	2.55
21.00	DISCHG	2.49	2.48	2.54	2.58	2.55	2.49	2.48	2.54	2.58	2.55
22.00	DISCHG	2.49	2.49	2.55	2.58	2.55	2.49	2.49	2.55	2.59	2.55
23.00	DISCHG	2.49	2.49	2.55	2.59	2.55	2.49	2.49	2.55	2.59	2.55

24.00	DISCHG	2.49	2.10	1.20	.55	.23	.09	.03	.01	.00

RUNOFF VOLUME ABOVE BASEFLOW = 1.82 WATERSHED INCHES, 346.31 CFS-HRS, 28.62 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION RESVOR STRUCTURE 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.30	163.14	5928.14
9.95	9.83	5922.39
13.86	6.51	5922.26
19.93	5.05	5922.20
23.89	2.56	5922.10

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .29 SQ.MI.

5.00	DISCHG	.00	.00	.00	.00	.00	.07	5.13	37.26	67.40	102.82
6.00	DISCHG	125.08	147.16	160.97	163.13	161.28	156.07	148.91	141.37	133.71	126.26
7.00	DISCHG	119.20	112.56	106.19	94.31	82.62	72.65	64.20	57.08	51.08	35.84
8.00	DISCHG	26.48	22.05	18.75	15.60	13.15	11.59	10.69	10.21	9.97	9.86
9.00	DISCHG	9.81	9.79	9.79	9.79	9.79	9.79	9.80	9.80	9.81	9.81
10.00	DISCHG	9.82	9.72	9.34	8.76	8.23	7.84	7.60	7.49	7.46	7.44
11.00	DISCHG	7.41	7.38	7.39	7.42	7.43	7.41	7.39	7.40	7.43	7.45
12.00	DISCHG	7.43	7.41	7.41	7.44	7.46	7.44	7.42	7.43	7.46	7.47
13.00	DISCHG	7.45	7.39	7.23	7.02	6.82	6.65	6.54	6.50	6.51	6.51
14.00	DISCHG	6.49	6.43	6.34	6.22	6.13	6.07	6.03	6.01	6.00	6.00
15.00	DISCHG	6.00	5.96	5.79	5.55	5.33	5.18	5.10	5.05	5.03	5.02
16.00	DISCHG	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.02	5.02	5.02
17.00	DISCHG	5.02	5.02	5.02	5.02	5.02	5.02	5.03	5.03	5.03	5.03
18.00	DISCHG	5.03	5.03	5.03	5.03	5.03	5.03	5.04	5.04	5.04	5.04
19.00	DISCHG	5.04	5.04	5.04	5.04	5.04	5.04	5.05	5.05	5.05	5.05
20.00	DISCHG	5.05	4.95	4.55	3.95	3.40	3.00	2.74	2.63	2.59	2.58
21.00	DISCHG	2.54	2.51	2.51	2.54	2.55	2.53	2.51	2.51	2.54	2.55
22.00	DISCHG	2.53	2.51	2.51	2.54	2.56	2.54	2.51	2.51	2.54	2.56
23.00	DISCHG	2.54	2.51	2.51	2.54	2.56	2.54	2.51	2.52	2.55	2.56
24.00	DISCHG	2.54	2.40	1.97	1.35	.81	.44	.23	.11	.05	.02
25.00	DISCHG	.01	.00								

RUNOFF VOLUME ABOVE BASEFLOW = 1.82 WATERSHED INCHES, 345.97 CFS-HRS, 28.59 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 54 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.06	120.34	(RUNOFF)
7.95	6.10	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.11	229.99	5880.99
9.96	12.93	5880.13
12.93	9.85	5880.10
19.95	6.72	5880.07
23.88	3.38	5880.03

*** WARNING REACH 44 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 44 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 95.64 CFS, 85.16 % OF PEAK.

OPERATION REACH CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
20.65	112.31	5880.83

OPERATION RUNOFF CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.97	41.12	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.03	58.61	5880.55
20.69	112.51	5880.83
20.00	112.52	5880.83

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.10	284.94	5881.12
6.52	248.78	5881.03
10.06	109.77	5880.72
19.98	119.23	5880.74

*** WARNING - REACH 39 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 95.64 CFS, 33.57 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 38

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.97	163.58	(RUNOFF)
7.95	6.18	(RUNOFF)

*** WARNING REACH 36 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING REACH 39 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 36

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.13	124.70	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 36

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.11	274.77	5859.24
9.96	6.37	5858.19
19.88	3.26	5858.10
23.88	1.66	5858.05

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.17	431.86	5852.94
10.10	115.65	5851.75
20.06	122.34	5851.77

OPERATION RUNOFF CROSS SECTION 42

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.06	81.52	(RUNOFF)
7.95	4.20	(RUNOFF)

*** WARNING REACH 40 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.15	83.94	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.27	109.51	5862.92
9.96	5.31	5862.43
12.93	4.12	5862.42
19.95	2.88	5862.42
23.84	1.46	5862.41

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.18	537.32	5853.29
10.08	120.93	5851.77
20.03	125.16	5851.78

OPERATION RUNOFF CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.00	51.75	(RUNOFF)
7.95	2.34	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.16	556.27	5853.32
10.05	122.05	5851.77
19.98	125.78	5851.79

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 3.35 SQ.MI.

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01
3.00	DISCHG	.02	.02	.03	.04	.05	.06	.07	.08	.09	.11
4.00	DISCHG	.12	.14	.15	.17	.19	.21	.23	.25	.27	.29
5.00	DISCHG	.32	.34	.36	.40	.47	.94	4.43	40.38	140.91	277.80
6.00	DISCHG	427.63	543.13	550.19	483.06	425.73	382.41	352.07	328.02	308.87	294.83
7.00	DISCHG	284.02	274.60	264.64	254.54	245.64	236.59	227.15	217.70	208.64	200.27
8.00	DISCHG	192.71	183.12	171.46	159.96	150.45	142.85	136.81	132.14	128.66	126.14
9.00	DISCHG	124.37	123.17	122.39	121.90	121.63	121.52	121.50	121.56	121.67	121.82
10.00	DISCHG	121.99	122.00	121.57	120.89	120.26	119.64	119.10	118.71	118.46	118.28
11.00	DISCHG	118.17	118.15	118.23	118.38	118.53	118.66	118.82	119.04	119.28	119.49
12.00	DISCHG	119.68	119.87	120.12	120.37	120.60	120.80	121.01	121.25	121.52	121.75
13.00	DISCHG	121.95	122.09	122.07	121.95	121.84	121.70	121.61	121.60	121.65	121.71
14.00	DISCHG	121.77	121.83	121.84	121.81	121.81	121.84	121.88	121.95	122.04	122.16
15.00	DISCHG	122.29	122.36	122.25	122.03	121.85	121.69	121.56	121.47	121.43	121.43
16.00	DISCHG	121.47	121.55	121.64	121.75	121.87	122.00	122.13	122.27	122.41	122.54
17.00	DISCHG	122.68	122.81	122.95	123.08	123.21	123.34	123.47	123.59	123.72	123.84
18.00	DISCHG	123.96	124.07	124.19	124.30	124.41	124.51	124.62	124.72	124.82	124.91

19.00	DISCHG	125.00	125.10	125.18	125.27	125.35	125.43	125.51	125.58	125.65	125.72
20.00	DISCHG	125.78	125.66	125.05	124.17	123.33	122.50	121.74	121.14	120.66	120.27
21.00	DISCHG	119.94	119.70	119.56	119.47	119.39	119.28	119.20	119.18	119.17	119.13
22.00	DISCHG	119.06	119.00	118.98	118.97	118.93	118.85	118.78	118.74	118.73	118.68
23.00	DISCHG	118.58	118.50	118.45	118.42	118.36	118.25	118.15	118.10	118.05	117.97
24.00	DISCHG	117.85	117.53	116.74	115.67	114.68	113.73	112.86	112.09	111.45	110.91
25.00	DISCHG	110.48	110.11	109.81	109.54	109.29	109.07	108.84	108.62	108.40	108.18
26.00	DISCHG	107.95	107.71	107.48	107.23	106.98	106.72	106.46	106.18	105.91	105.62
27.00	DISCHG	105.33	105.04	104.73	104.42	104.11	103.79	103.47	103.14	102.81	102.47
28.00	DISCHG	102.13	101.78	101.43	101.07	100.72	100.35	99.99	99.61	99.24	98.86
29.00	DISCHG	98.48	98.09	97.71	97.32	96.92	96.52	66.55	45.88	31.64	21.81

RUNOFF VOLUME ABOVE BASEFLOW = 1.52 WATERSHED INCHES, 3281.21 CFS-HRS, 271.16 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION DIVERT CROSS SECTION 100

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.16	130.18	5857.50
10.05	66.49	5856.41
19.98	67.53	5856.43

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.16	426.10	5857.50
10.05	55.55	5856.41
19.98	58.25	5856.43

*** WARNING - REACH 39 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 21.81 CFS, 16.83 % OF PEAK.

OPERATION REACH CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.34	125.19	5851.78
10.17	66.47	5851.56
20.11	67.52	5851.57

OPERATION RUNOFF CROSS SECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.03	230.45	(RUNOFF)
7.91	9.54	(RUNOFF)
9.92	4.82	(RUNOFF)
19.86	2.46	(RUNOFF)
23.80	1.26	(RUNOFF)

*** WARNING REACH 28 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 28

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.01	184.78	(RUNOFF)
7.95	7.50	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 28

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	396.93	5925.47
7.95	17.05	5924.17
9.95	8.58	5924.09
19.95	4.39	5924.04
23.85	2.23	5924.02

OPERATION RESVOR STRUCTURE 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.34	154.78	5931.14
9.96	8.57	5926.34
13.90	5.65	5926.23
19.95	4.38	5926.18
23.93	2.21	5926.09

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .25 SQ.MI.

5.00	DISCHG	.00	.00	.00	.00	.09	.48	4.72	28.14	56.44	74.87
6.00	DISCHG	101.22	126.12	145.43	154.05	152.95	146.84	139.08	130.89	122.64	114.61
7.00	DISCHG	107.03	99.04	91.30	84.09	77.40	71.27	65.72	60.72	56.23	52.20
8.00	DISCHG	41.92	27.13	20.15	15.81	12.73	10.75	9.63	9.05	8.77	8.63
9.00	DISCHG	8.57	8.55	8.54	8.54	8.54	8.54	8.55	8.55	8.55	8.56
10.00	DISCHG	8.56	8.51	8.29	7.85	7.35	6.95	6.68	6.54	6.50	6.48
11.00	DISCHG	6.47	6.44	6.43	6.45	6.47	6.46	6.45	6.44	6.45	6.48
12.00	DISCHG	6.47	6.45	6.45	6.46	6.48	6.48	6.46	6.45	6.47	6.49
13.00	DISCHG	6.49	6.45	6.35	6.18	5.99	5.83	5.72	5.65	5.65	5.65
14.00	DISCHG	5.65	5.61	5.54	5.45	5.35	5.29	5.24	5.22	5.21	5.21
15.00	DISCHG	5.21	5.19	5.09	4.91	4.70	4.54	4.44	4.39	4.37	4.36
16.00	DISCHG	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35
17.00	DISCHG	4.35	4.35	4.35	4.35	4.36	4.36	4.36	4.36	4.36	4.36
18.00	DISCHG	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.37
19.00	DISCHG	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.37
20.00	DISCHG	4.37	4.32	4.09	3.64	3.12	2.71	2.44	2.30	2.25	2.23
21.00	DISCHG	2.21	2.18	2.17	2.19	2.21	2.20	2.18	2.17	2.19	2.21
22.00	DISCHG	2.20	2.18	2.17	2.19	2.21	2.20	2.18	2.17	2.19	2.21
23.00	DISCHG	2.20	2.18	2.17	2.19	2.21	2.21	2.18	2.17	2.19	2.21
24.00	DISCHG	2.21	2.13	1.87	1.39	.88	.48	.25	.12	.05	.02

25.00 DISCHG .01 .00

RUNOFF VOLUME ABOVE BASEFLOW = 1.98 WATERSHED INCHES, 315.75 CFS-HRS, 26.09 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 27 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.98	67.03	(RUNOFF)
7.89	2.50	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.10	180.80	5872.90
9.95	9.83	5872.10
12.90	7.44	5872.07
19.91	5.01	5872.05
23.89	2.53	5872.03

OPERATION RUNOFF CROSS SECTION 26

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.99	206.41	(RUNOFF)
7.89	7.78	(RUNOFF)
19.86	1.99	(RUNOFF)
23.78	1.02	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.02	376.19	5873.39
9.95	13.77	5872.14
12.82	10.41	5872.10
13.77	9.07	5872.09
19.88	7.00	5872.07
23.81	3.54	5872.04

*** WARNING REACH 26 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.10	769.17	5853.79
9.98	69.26	5851.57
13.02	65.85	5851.56
15.00	64.07	5851.55
19.96	65.28	5851.56
23.75	56.23	5851.52

OPERATION RESVOR STRUCTURE 29

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.41	233.87	5853.36
20.06	64.99	5847.17

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 3.07 SQ.MI.

5.00	DISCHG	.00	.02	.12	.36	.86	1.82	8.18	33.38	69.71	109.50
6.00	DISCHG	150.82	174.50	194.73	207.74	213.73	218.48	222.31	225.37	227.80	229.73
7.00	DISCHG	231.26	232.44	233.25	233.72	233.87	233.74	233.37	232.78	231.98	231.01
8.00	DISCHG	229.81	228.28	226.40	224.27	221.95	219.50	216.98	214.42	211.85	209.28
9.00	DISCHG	206.72	203.40	198.46	193.69	189.08	184.64	180.36	176.24	172.27	168.46
10.00	DISCHG	164.78	161.25	157.81	153.75	146.22	139.24	132.80	126.87	121.42	116.42
11.00	DISCHG	111.84	107.65	103.82	100.33	97.15	94.25	91.60	88.33	83.93	80.35
12.00	DISCHG	77.43	75.06	73.15	71.62	70.40	69.42	68.64	68.03	67.57	67.23
13.00	DISCHG	66.97	66.76	66.56	66.34	66.09	65.83	65.58	65.35	65.16	65.02
14.00	DISCHG	64.90	64.80	64.69	64.58	64.46	64.35	64.26	64.18	64.12	64.09
15.00	DISCHG	64.08	64.07	64.02	63.90	63.72	63.52	63.31	63.11	62.93	62.78
16.00	DISCHG	62.66	62.56	62.50	62.45	62.44	62.44	62.45	62.49	62.53	62.59
17.00	DISCHG	62.65	62.72	62.79	62.87	62.95	63.03	63.12	63.21	63.29	63.38
18.00	DISCHG	63.47	63.56	63.64	63.73	63.81	63.90	63.98	64.06	64.14	64.22
19.00	DISCHG	64.29	64.37	64.44	64.51	64.58	64.65	64.72	64.78	64.84	64.90
20.00	DISCHG	64.96	64.97	64.83	64.48	63.96	63.33	62.63	61.94	61.30	60.70
21.00	DISCHG	60.16	59.67	59.24	58.88	58.58	58.31	58.08	57.88	57.72	57.59
22.00	DISCHG	57.47	57.36	57.27	57.20	57.13	57.07	57.00	56.94	56.90	56.86
23.00	DISCHG	56.81	56.76	56.70	56.66	56.63	56.58	56.52	56.47	56.42	56.38
24.00	DISCHG	56.33	56.21	55.94	55.45	54.80	54.05	53.25	52.46	51.70	50.99
25.00	DISCHG	50.34	49.76	49.23	48.76	48.35	47.98	47.64	47.34	47.06	46.80
26.00	DISCHG	46.56	46.34	46.12	45.91	45.71	45.51	45.31	45.11	44.92	44.72
27.00	DISCHG	44.52	44.32	44.11	43.90	43.69	43.48	43.26	43.04	42.82	42.60
28.00	DISCHG	42.37	42.13	41.90	41.66	41.41	41.17	40.92	40.66	40.41	40.15
29.00	DISCHG	39.89	39.63	39.36	39.09	38.82	38.54	38.35	31.27	22.04	14.69

RUNOFF VOLUME ABOVE BASEFLOW = 1.07 WATERSHED INCHES, 2127.87 CFS-HRS, 175.85 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION ADDHYD CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.53	338.34	5816.89
15.10	130.61	5816.11
20.07	132.50	5816.12

*** WARNING - REACH 32 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 53.62 CFS, 15.85 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.98	86.55	(RUNOFF)
7.95	3.38	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.65	343.23	5831.31
20.00	133.20	5830.78

OPERATION RUNOFF CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.10	89.95	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.49	362.52	5831.60
19.99	134.50	5830.99

*** WARNING REACH 24 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 24 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 77.24 CFS, 21.31 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.01	236.31	(RUNOFF)
7.95	9.71	(RUNOFF)
9.95	4.88	(RUNOFF)
19.87	2.49	(RUNOFF)
23.79	1.28	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.11	469.78	5831.89
19.99	136.87	5831.00

OPERATION RUNOFF CROSS SECTION 18

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.12	65.40	(RUNOFF)
7.95	4.48	(RUNOFF)

***WARNING - LACK OF LOW FLOW DEFINITION FOR XSECT TABLE 16. MAX.FLOW LESS THAN 2ND TABLE VALUE.

OPERATION RUNOFF CROSS SECTION 16

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.00	112.04	(RUNOFF)
7.95	4.51	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 16

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.02	114.98	5852.03
12.79	3.50	5849.05
19.92	2.40	5849.00
23.78	1.22	5848.95

OPERATION RUNOFF CROSS SECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.09	50.08	(RUNOFF)
7.96	2.98	(RUNOFF)

***WARNING - LACK OF LOW FLOW DEFINITION FOR XSECT TABLE 33. MAX.FLOW LESS THAN 2ND TABLE VALUE.

OPERATION ADDHYD CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	137.04	5848.68
7.95	7.96	5848.06
19.95	2.16	5848.02
23.81	1.10	5848.01

OPERATION ADDHYD CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.05	250.84	5848.94
12.80	6.62	5848.05
19.95	4.57	5848.04
23.80	2.32	5848.02

OPERATION RUNOFF CROSS SECTION 14

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	79.17	(RUNOFF)
7.95	3.92	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 14

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.42	196.39	5851.62
12.77	8.10	5848.14
19.95	5.58	5848.03
23.75	2.82	5847.92

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.14	611.90	5832.27
6.40	581.93	5832.19
19.98	142.45	5831.01

OPERATION RESVOR STRUCTURE 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.68	529.76	5822.12
20.06	142.32	5817.74

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 4.40 SQ.MI.

3.00	DISCHG	.00	.00	.00	.00	.01	.01	.02	.02	.03	.04

4.00	DISCHG	.05	.06	.07	.08	.10	.11	.13	.14	.16	.17
5.00	DISCHG	.19	.21	.23	.26	.31	.55	5.45	34.01	98.35	176.30
6.00	DISCHG	278.42	370.37	429.86	470.18	498.99	520.12	527.91	529.70	526.30	519.05
7.00	DISCHG	505.75	491.61	477.21	463.11	449.99	438.14	427.57	418.27	410.23	403.06
8.00	DISCHG	396.55	390.34	383.92	377.14	370.28	363.41	356.49	349.54	342.67	334.07
9.00	DISCHG	325.34	318.03	311.78	306.29	301.14	296.02	290.89	285.81	280.84	276.04
10.00	DISCHG	271.43	266.96	262.48	258.00	253.63	249.33	244.68	239.24	232.70	226.05
11.00	DISCHG	219.50	213.22	207.32	201.86	196.81	192.17	187.92	184.08	180.60	177.35
12.00	DISCHG	174.04	170.56	167.10	163.84	160.90	158.32	156.12	154.32	152.86	151.67
13.00	DISCHG	150.71	149.93	149.25	148.64	148.11	147.63	147.19	146.78	146.40	146.03
14.00	DISCHG	145.66	145.31	144.97	144.64	144.34	144.08	143.84	143.62	143.43	143.25
15.00	DISCHG	143.10	142.95	142.75	142.48	142.22	141.97	141.70	141.41	141.09	140.77
16.00	DISCHG	140.45	140.15	139.87	139.64	139.44	139.29	139.18	139.11	139.07	139.07
17.00	DISCHG	139.09	139.13	139.19	139.26	139.35	139.45	139.55	139.66	139.78	139.89
18.00	DISCHG	140.02	140.14	140.26	140.39	140.51	140.63	140.76	140.88	141.00	141.12
19.00	DISCHG	141.23	141.35	141.46	141.57	141.68	141.79	141.89	141.99	142.09	142.18
20.00	DISCHG	142.28	142.30	142.11	141.69	141.19	140.62	139.93	139.12	138.22	137.24
21.00	DISCHG	136.19	135.16	134.19	133.30	132.49	131.75	131.10	130.55	130.10	129.72
22.00	DISCHG	129.37	129.07	128.83	128.65	128.49	128.33	128.19	128.08	128.00	127.92
23.00	DISCHG	127.83	127.73	127.67	127.62	127.56	127.48	127.40	127.34	127.30	127.24
24.00	DISCHG	127.16	127.01	126.63	126.04	125.37	124.63	123.78	122.80	121.72	120.56
25.00	DISCHG	119.37	118.20	117.07	116.02	115.06	114.19	113.41	112.72	112.10	111.56
26.00	DISCHG	111.07	110.64	110.24	109.87	109.53	109.21	108.91	108.62	108.33	108.05
27.00	DISCHG	107.78	107.50	107.23	106.95	106.67	106.39	106.11	105.82	105.53	105.23
28.00	DISCHG	104.93	104.63	104.32	104.00	103.68	103.36	103.03	102.69	102.35	102.01
29.00	DISCHG	101.67	101.31	100.96	100.60	100.24	99.87	99.50	99.13	98.55	96.74

RUNOFF VOLUME ABOVE BASEFLOW = 1.55 WATERSHED INCHES, 4399.04 CFS-HRS, 363.54 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 12 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 12 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 96.74 CFS, 18.26 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 11

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.97	64.02	(RUNOFF)
7.95	2.34	(RUNOFF)

*** WARNING REACH 10 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 10

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.98	153.75	(RUNOFF)
7.95	5.92	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.99	208.43	5796.70
7.95	8.20	5793.60
9.94	4.07	5793.50
19.86	2.08	5793.45
23.78	1.07	5793.43

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.12	540.77	5798.15
6.62	546.11	5798.16
19.98	144.36	5795.82

OPERATION RUNOFF CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.06	140.46	(RUNOFF)
7.95	6.45	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.10	676.26	5798.51
6.55	564.56	5798.21
19.97	146.06	5795.85

*** WARNING REACH 6 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 6 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 96.74 CFS, 14.31 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.06	79.25	(RUNOFF)
7.95	4.13	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.17	723.84	5772.56
6.63	573.70	5772.29
20.05	147.15	5771.14

OPERATION RUNOFF CROSS SECTION 8

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	78.08	(RUNOFF)
7.95	4.20	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.15	784.86	5772.68
6.60	584.07	5772.31
20.01	148.23	5771.14
23.77	130.43	5771.06

OPERATION RUNOFF CROSS SECTION 9

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.05	59.74	(RUNOFF)
7.95	2.91	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 8

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.14	841.81	(NULL)
6.58	591.13	(NULL)
19.99	149.01	(NULL)
23.78	130.83	(NULL)

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.20	526.19	5775.53
20.14	148.51	5772.39

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 4.84 SQ.MI.

3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.01	.02
4.00	DISCHG	.02	.03	.04	.04	.05	.06	.08	.09	.10	.11
5.00	DISCHG	.13	.14	.16	.18	.22	.31	.62	6.63	39.06	119.75

6.00	DISCHG	190.38	288.59	366.32	415.25	444.75	464.65	481.02	495.05	506.28	514.86
7.00	DISCHG	521.13	524.98	526.19	524.85	521.38	516.37	510.30	503.52	496.33	488.94
8.00	DISCHG	481.52	474.13	466.59	458.69	450.52	442.30	434.18	426.18	418.31	410.56
9.00	DISCHG	402.81	394.94	387.06	379.32	371.83	364.62	357.68	350.98	344.50	338.20
10.00	DISCHG	332.09	326.16	320.33	312.47	304.95	297.90	291.30	285.07	279.07	273.07
11.00	DISCHG	266.96	260.75	254.51	248.30	242.20	236.24	230.48	224.95	219.70	214.75
12.00	DISCHG	210.08	206.01	202.07	198.21	194.44	190.78	187.26	183.92	180.82	177.97
13.00	DISCHG	175.36	173.00	170.84	168.86	167.05	165.41	163.94	162.64	161.48	160.46
14.00	DISCHG	159.55	158.70	157.92	157.18	156.48	155.83	155.24	154.71	154.22	153.78
15.00	DISCHG	153.39	153.02	152.65	152.25	151.82	151.38	150.97	150.57	150.19	149.83
16.00	DISCHG	149.47	149.12	148.77	148.44	148.12	147.81	147.53	147.28	147.05	146.85
17.00	DISCHG	146.68	146.54	146.43	146.35	146.29	146.25	146.24	146.24	146.27	146.31
18.00	DISCHG	146.36	146.42	146.49	146.58	146.67	146.76	146.86	146.97	147.07	147.18
19.00	DISCHG	147.30	147.41	147.53	147.64	147.75	147.87	147.98	148.09	148.20	148.31
20.00	DISCHG	148.42	148.51	148.49	148.30	147.94	147.48	146.97	146.43	145.86	145.24
21.00	DISCHG	144.57	143.83	143.04	142.22	141.39	140.55	139.72	138.90	138.13	137.42
22.00	DISCHG	136.74	136.11	135.53	135.01	134.55	134.13	133.74	133.39	133.09	132.83
23.00	DISCHG	132.60	132.37	132.17	132.00	131.86	131.72	131.59	131.46	131.36	131.27
24.00	DISCHG	131.18	131.06	130.94	130.43	129.87	129.23	128.55	127.83	127.08	126.28
25.00	DISCHG	125.43	124.53	123.58	122.59	121.59	120.59	119.60	118.64	117.71	116.84
26.00	DISCHG	116.01	115.23	114.50	113.83	113.20	112.62	112.09	111.58	111.12	110.68
27.00	DISCHG	110.27	109.75	109.05	108.49	108.02	107.62	107.26	106.92	106.60	106.29
28.00	DISCHG	105.99	105.69	105.39	105.08	104.77	104.46	104.15	103.83	103.51	103.18
29.00	DISCHG	102.85	102.51	102.17	101.83	101.48	101.13	100.77	100.41	100.04	99.64

RUNOFF VOLUME ABOVE BASEFLOW = 1.53 WATERSHED INCHES, 4789.12 CFS-HRS, 395.77 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 4 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 4 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 99.64 CFS, 18.94 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.05	91.42	(RUNOFF)
7.95	4.50	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.16	531.62	5729.47
20.04	149.65	5728.17

OPERATION RUNOFF CROSS SECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.04	81.86	(RUNOFF)
7.95	4.25	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.13	537.11	5729.48
20.00	150.79	5728.18

*** WARNING REACH 2 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMEN. ***

*** WARNING - REACH 2 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 99.64 CFS, 18.56 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.06	147.47	(RUNOFF)
7.95	7.71	(RUNOFF)
19.95	2.13	(RUNOFF)
23.80	1.09	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.12	598.55	5725.13
7.10	547.58	5724.81
19.98	152.91	5722.21

*** WARNING REACH 2 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 2 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 99.64 CFS, 16.71 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.04	41.41	(RUNOFF)
7.95	2.15	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.11	636.47	5719.07
7.10	550.47	5718.63
19.97	153.50	5716.02

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 5.21 SQ.MI.

3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.01	.02
4.00	DISCHG	.02	.03	.04	.04	.05	.06	.08	.09	.10	.11
5.00	DISCHG	.13	.14	.16	.18	.22	.31	1.30	32.83	155.69	354.61
6.00	DISCHG	531.20	635.68	564.47	515.61	509.33	515.90	524.44	529.24	535.46	542.48
7.00	DISCHG	548.25	550.47	547.86	544.26	540.01	534.74	528.60	521.83	514.68	507.34
8.00	DISCHG	499.96	491.[illegible]	479.61	469.36	460.33	451.80	443.57	435.53	427.66	419.92
9.00	DISCHG	412.19	404.33	396.46	388.73	381.25	374.05	367.13	360.45	353.97	347.69
10.00	DISCHG	341.59	335.27	328.49	320.05	312.25	305.06	298.44	292.27	286.31	280.27
11.00	DISCHG	274.10	267.90	261.74	255.57	249.43	243.41	237.66	232.21	227.01	222.01
12.00	DISCHG	217.28	213.23	209.36	205.55	201.74	198.01	194.50	191.25	188.19	185.29
13.00	DISCHG	182.63	180.11	177.61	175.43	173.48	171.75	170.27	169.04	167.93	166.86
14.00	DISCHG	165.88	164.95	163.99	163.15	162.41	161.76	161.16	160.63	160.15	159.72
15.00	DISCHG	159.32	158.79	158.01	157.35	156.83	156.36	155.94	155.54	155.16	154.80
16.00	DISCHG	154.44	154.09	153.75	153.42	153.10	152.80	152.52	152.27	152.04	151.85
17.00	DISCHG	151.68	151.54	151.43	151.35	151.30	151.26	151.25	151.26	151.29	151.33
18.00	DISCHG	151.38	151.45	151.52	151.61	151.70	151.80	151.90	152.01	152.12	152.23
19.00	DISCHG	152.35	152.46	152.58	152.69	152.81	152.93	153.04	153.16	153.27	153.38
20.00	DISCHG	153.49	153.17	152.12	151.29	150.64	150.02	149.48	149.00	148.46	147.80
21.00	DISCHG	147.06	146.32	145.61	144.83	143.95	143.04	142.21	141.48	140.75	139.98
22.00	DISCHG	139.24	138.61	138.10	137.63	137.11	136.62	136.24	135.97	135.71	135.40
23.00	DISCHG	135.09	134.88	134.76	134.63	134.43	134.22	134.10	134.05	133.98	133.84
24.00	DISCHG	133.67	133.11	131.84	130.80	130.01	129.28	128.56	127.83	127.08	126.28
25.00	DISCHG	125.43	124.53	123.58	122.59	121.59	120.59	119.60	118.64	117.71	116.84
26.00	DISCHG	116.01	115.23	114.50	113.83	113.20	112.62	112.09	111.58	111.12	110.68
27.00	DISCHG	110.27	109.75	109.05	108.49	108.02	107.62	107.26	106.92	106.60	106.29
28.00	DISCHG	105.99	105.69	105.39	105.08	104.77	104.46	104.15	103.83	103.51	103.18
29.00	DISCHG	102.85	102.51	102.17	101.83	101.48	101.13	100.77	100.41	100.04	99.64

RUNOFF VOLUME ABOVE BASEFLOW = 1.51 WATERSHED INCHES, 5064.18 CFS-HRS, 418.50 ACRE-FEET; BASEFLOW = .00 CFS

EXECUTIVE CONTROL OPERATION ENDCMP COMPUTATIONS COMPLETED FOR PASS 1 RECORD ID

EXECUTIVE CONTROL OPERATION ENDJOB RECORD ID

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 60	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.82	---	6.04	126.25	1503.0
XSECTION 58	RUNOFF	.06	7	2	.10	.0	3.00	24.00	1.82	---	6.02	98.88	1569.6
XSECTION 56	REACH	.06	7	2	.10	.0	3.00	24.00	1.81	5930.76	6.15	92.59	1469.7
XSECTION 56	RUNOFF	.15	7	2	.10	.0	3.00	24.00	1.82	---	6.00	237.95	1607.6
XSECTION 56	ADDHYD	.21	7	2	.10	.0	3.00	24.00	1.82	5931.39	6.03	313.37	1485.2
XSECTION 56	ADDHYD	.29	7	2	.10	.0	3.00	24.00	1.82	5931.73	6.04	439.54	1490.0
STRUCTURE 30	RESVDR	.29	7	2	.10	.0	3.00	24.00	1.82	5928.14	6.30	163.14	553.0
XSECTION 54	REACH	.29	7	2	.10	.0	3.00	24.00	1.82	5880.84	6.47	161.16	546.3
XSECTION 54	RUNOFF	.12	7	2	.10	.0	3.00	24.00	1.22	---	6.06	120.34	1028.5
XSECTION 54	ADDHYD	.41	7	2	.10	.0	3.00	24.00	1.65	5880.99	6.11	229.99	558.2
XSECTION 44	REACH	2.47	7	2	.10	.0	3.00	24.00	1.51	5880.83	20.65	112.31	45.5
XSECTION 44	RUNOFF	.02	7	2	.10	.0	3.00	24.00	2.11	---	5.97	41.12	1958.3
XSECTION 44	ADDHYD	2.49	7	2	.10	.0	3.00	24.00	1.52	5880.83	20.00	112.52	45.2
XSECTION 54	ADDHYD	2.90	7	2	.10	.0	3.00	24.00	1.53	5881.12	6.10	284.94	98.3
XSECTION 39	REACH	2.90	7	2	.10	.0	3.00	24.00	1.53	5852.21	6.81	238.70	82.3
XSECTION 38	RUNOFF	.09	7	2	.10	.0	3.00	24.00	1.99	---	5.97	163.58	1858.9
XSECTION 36	REACH	.09	7	2	.10	.0	3.00	24.00	1.99	5858.96	5.97	163.58	1858.9
XSECTION 39	REACH	.09	7	2	.10	.0	3.00	24.00	1.98	5851.88	6.10	151.10	1717.1
XSECTION 36	RUNOFF	.10	7	2	.10	.0	3.00	24.00	1.84	---	6.13	124.70	1259.6
XSECTION 36	ADDHYD	.19	7	2	.10	.0	3.00	24.00	1.91	5859.24	6.11	274.77	1469.3
XSECTION 39	ADDHYD	3.09	7	2	.10	.0	3.00	24.00	1.56	5852.94	6.17	431.86	139.9
XSECTION 42	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.14	---	6.06	81.52	970.5
XSECTION 40	REACH	.08	7	2	.10	.0	3.00	24.00	1.13	5862.82	6.17	79.15	942.2
XSECTION 39	REACH	.08	7	2	.10	.0	3.00	24.00	1.13	5851.54	6.42	61.34	730.3
XSECTION 40	RUNOFF	.14	7	2	.10	.0	3.00	24.00	.93	---	6.15	83.94	595.3
XSECTION 40	ADDHYD	.22	7	2	.10	.0	3.00	24.00	1.01	5862.92	6.27	109.51	486.7
XSECTION 39	ADDHYD	3.31	7	2	.10	.0	3.00	24.00	1.52	5853.28	6.18	537.32	162.3
XSECTION 39	RUNOFF	.04	7	2	.10	.0	3.00	24.00	1.27	---	6.00	51.75	1203.4
XSECTION 39	ADDHYD	3.35	7	2	.10	.0	3.00	24.00	1.52	5853.32	6.16	556.27	165.9
XSECTION 100	DIVERT	.67	7	2	.10	.0	3.00	24.00	3.85	5857.50	6.16	130.18	194.1
XSECTION 101	DIVERT	2.68	7	2	.10	.0	3.00	24.00	.93	5857.50	6.16	426.10	158.8
XSECTION 39	REACH	.67	7	2	.10	.0	3.00	24.00	3.83	5851.78	6.34	125.19	186.6

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 30	RUNOFF	.14	7	2	.10	.0	3.00	24.00	1.98	---	6.03	230.45	1657.3
XSECTION 28	REACH	.14	7	2	.10	.0	3.00	24.00	1.98	5925.09	6.13	228.60	1644.6
XSECTION 28	RUNOFF	.11	7	2	.10	.0	3.00	24.00	1.99	---	6.01	184.78	1710.9
XSECTION 28	ADDHYD	.25	7	2	.10	.0	3.00	24.00	1.98	5925.47	6.07	396.93	1607.0
STRUCTURE 40	RESVOR	.25	7	2	.10	.0	3.00	24.00	1.98	5931.14	6.34	154.78	626.6
XSECTION 27	REACH	.25	7	2	.10	.0	3.00	24.00	1.98	5872.84	6.34	154.78	626.6
XSECTION 27	RUNOFF	.04	7	2	.10	.0	3.00	24.00	2.16	---	5.98	67.03	1915.1
XSECTION 27	ADDHYD	.28	7	2	.10	.0	3.00	24.00	2.00	5872.90	6.10	180.80	641.1
XSECTION 26	RUNOFF	.11	7	2	.10	.0	3.00	24.00	2.17	---	5.99	206.41	1893.7
XSECTION 27	ADDHYD	.39	7	2	.10	.0	3.00	24.00	2.05	5873.39	6.02	376.19	962.1
XSECTION 26	REACH	.39	7	2	.10	.0	3.00	24.00	2.05	5868.05	6.02	376.19	962.1
XSECTION 39	ADDHYD	3.07	7	2	.10	.0	3.00	24.00	1.07	5853.79	6.10	769.17	250.2
STRUCTURE 29	RESVOR	3.07	7	2	.10	.0	3.00	24.00	1.07	5853.36	7.41	233.87	76.1
XSECTION 32	ADDHYD	3.74	7	2	.10	.0	3.00	24.00	1.57	5816.89	6.53	338.34	90.3
XSECTION 32	REACH	3.74	7	2	.10	.0	3.00	24.00	1.56	5816.89	6.80	337.50	90.1
XSECTION 25	RUNOFF	.05	7	2	.10	.0	3.00	24.00	1.84	---	5.98	86.55	1731.1
XSECTION 25	ADDHYD	3.79	7	2	.10	.0	3.00	24.00	1.57	5831.31	6.65	343.23	90.4
XSECTION 32	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.48	---	6.10	89.95	1083.7
XSECTION 24	ADDHYD	3.88	7	2	.10	.0	3.00	24.00	1.56	5831.60	6.49	362.52	93.5
XSECTION 24	REACH	3.88	7	2	.10	.0	3.00	24.00	1.56	5831.60	6.62	361.61	93.2
XSECTION 24	RUNOFF	.14	7	2	.10	.0	3.00	24.00	1.90	---	6.01	236.31	1652.5
XSECTION 24	ADDHYD	4.02	7	2	.10	.0	3.00	24.00	1.57	5831.89	6.11	469.78	116.8
XSECTION 18	RUNOFF	.10	7	2	.10	.0	3.00	24.00	1.00	---	6.12	68.40	698.0
XSECTION 16	REACH	.10	7	2	.10	.0	3.00	24.00	1.00	5850.48	6.48	37.59	383.5
XSECTION 16	RUNOFF	.06	7	2	.10	.0	3.00	24.00	1.98	---	6.00	112.04	1723.6
XSECTION 16	ADDHYD	.16	7	2	.10	.0	3.00	24.00	1.39	5852.03	6.02	114.98	705.4
XSECTION 34	RUNOFF	.07	7	2	.10	.0	3.00	24.00	.96	---	6.09	50.98	747.5
XSECTION 33	REACH	.07	7	2	.10	.0	3.00	24.00	.96	5848.35	6.22	43.45	648.5
XSECTION 33	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.59	---	6.03	110.72	1366.9
XSECTION 33	ADDHYD	.15	7	2	.10	.0	3.00	24.00	1.30	5848.68	6.07	137.04	925.9
XSECTION 33	ADDHYD	.31	7	2	.10	.0	3.00	24.00	1.35	5848.94	6.05	250.84	806.6
XSECTION 14	REACH	.31	7	2	.10	.0	3.00	24.00	1.35	5851.48	6.44	180.23	579.5
XSECTION 14	RUNOFF	.07	7	2	.10	.0	3.00	24.00	1.43	---	6.07	79.17	1164.2
XSECTION 14	ADDHYD	.38	7	2	.10	.0	3.00	24.00	1.36	5851.62	6.42	196.39	518.2

XSECTION	24	ADDHYD	4.40	7	2	.10	.0	3.00	24.00	1.55	5832.27	6.14	611.90	139.1
STRUCTURE	2	RESVOR	4.40	7	2	.10	.0	3.00	24.00	1.55	5822.12	6.68	529.76	120.4

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 12	REACH	4.40	7	2	.10	.0	3.00	24.00	1.55	5798.12	6.68	529.76	120.4
XSECTION 11	RUNOFF	.03	7	2	.10	.0	3.00	24.00	2.16	---	5.97	64.02	2000.5
XSECTION 10	REACH	.03	7	2	.10	.0	3.00	24.00	2.16	5806.10	6.08	62.18	1943.1
XSECTION 10	RUNOFF	.09	7	2	.10	.0	3.00	24.00	1.90	---	5.98	153.75	1787.7
XSECTION 12	ADDHYD	.12	7	2	.10	.0	3.00	24.00	1.97	5796.70	5.99	208.43	1766.3
XSECTION 12	ADDHYD	4.52	7	2	.10	.0	3.00	24.00	1.56	5798.16	6.62	546.11	120.9
XSECTION 12	RUNOFF	.10	7	2	.10	.0	3.00	24.00	1.67	---	6.06	140.46	1377.1
XSECTION 12	ADDHYD	4.62	7	2	.10	.0	3.00	24.00	1.56	5798.51	6.10	676.26	146.4
XSECTION 6	REACH	4.62	7	2	.10	.0	3.00	24.00	1.56	5772.47	6.20	675.83	146.3
XSECTION 6	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.11	---	6.06	79.25	943.4
XSECTION 6	ADDHYD	4.70	7	2	.10	.0	3.00	24.00	1.55	5772.56	6.17	723.84	153.9
XSECTION 8	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.14	---	6.07	78.08	929.5
XSECTION 6	ADDHYD	4.79	7	2	.10	.0	3.00	24.00	1.54	5772.68	6.15	784.86	163.9
XSECTION 9	RUNOFF	.05	7	2	.10	.0	3.00	24.00	1.35	---	6.05	59.74	1148.8
XSECTION 8	ADDHYD	4.84	7	2	.10	.0	3.00	24.00	1.54	---	6.14	841.81	173.9
STRUCTURE 1	RESVOR	4.84	7	2	.10	.0	3.00	24.00	1.53	5775.53	7.20	526.19	108.7
XSECTION 4	REACH	4.84	7	2	.10	.0	3.00	24.00	1.53	5729.46	7.20	526.19	108.7
XSECTION 4	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.26	---	6.05	91.42	1088.3
XSECTION 4	ADDHYD	4.92	7	2	.10	.0	3.00	24.00	1.53	5729.47	7.16	531.62	108.0
XSECTION 3	RUNOFF	.09	7	2	.10	.0	3.00	24.00	1.13	---	6.04	81.86	963.1
XSECTION 4	ADDHYD	5.01	7	2	.10	.0	3.00	24.00	1.52	5729.48	7.13	537.11	107.2
XSECTION 2	REACH	5.01	7	2	.10	.0	3.00	24.00	1.52	5724.75	7.13	537.11	107.2
XSECTION 2	RUNOFF	.16	7	2	.10	.0	3.00	24.00	1.13	---	6.06	147.47	951.4
XSECTION 2	ADDHYD	5.16	7	2	.10	.0	3.00	24.00	1.51	5725.13	6.12	598.55	115.9
XSECTION 2	REACH	5.16	7	2	.10	.0	3.00	24.00	1.51	5725.13	6.12	598.55	115.9
XSECTION 1	RUNOFF	.04	7	2	.10	.0	3.00	24.00	1.13	---	6.04	41.41	963.1
XSECTION 1	ADDHYD	5.21	7	2	.10	.0	3.00	24.00	1.51	5719.07	6.11	636.47	122.2

SUMMARY TABLE 2 - SELECTED MODIFIED ATT-KIN REACH ROUTINGS IN ORDER OF STANDARD EXECUTIVE CONTROL INSTRUCTIONS
(A STAR(*) AFTER VOLUME ABOVE BASE(IN) INDICATES A HYDROGRAPH TRUNCATED AT A VALUE EXCEEDING BASE + 10% OF PEAK
A QUESTION MARK(?) AFTER COEFF.(C) INDICATES PARAMETERS OUTSIDE ACCEPTABLE LIMITS, SEE PREVIOUS WARNINGS)

		HYDROGRAPH INFORMATION							ROUTING PARAMETERS										PEAK	
		INFLOW		OUTFLOW		OUTFLOW+ INTERV.AREA						Q AND A EQUATION							TRAVEL TIME	
XSEC ID	REACH LENGTH (FT)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	BASE-FLOW (CFS)	VOLUME ABOVE BASE (IN)	MAIN TIME INCR (HR)	ITER-ATION #	COEFF (X)	POWER (M)	LENGTH FACTOR (K*)	PEAK RATIO Q/I (Q*)	S/Q @PEAK (K) (SEC)	ATT-KIN COEFF (C)	STOR-AGE (HR)	KINE-MATIC (HR)
ALTERNATE		1	STORM	1															
56	2700	99	6.0	90	6.1	309	6.0	0	1.82	.10	1	1.08	1.54	.079	.916	336	.70?	.10	.09
54	2380	163	6.3	161	6.5	230	6.1	0	1.82	.10	1	.830	1.49	.018	.987	339	.69?	.20	.09
44	700	112	20.6	112	20.6	113	20.0	0	1.51*	.10	0	1.09	1.56	.000	1.000	78	1.00?	.00	.00
39	3400	285	6.1	239	6.8	---	---	0	1.53*	.10	1	.202	1.51	.008	.838	979	.31	.70	.28
36	1080	162	6.0	162	6.0	---	---	0	1.99	.10	0	2.12	1.40	.019	1.000	106	1.00?	.00	.00
39	1050	162	6.0	151	6.1	428	6.2	0	1.99	.10	1	.187	1.53	.098	.935	358	.67?	.10	.10
40	3120	78	6.1	77	6.2	---	---	0	1.14	.10	1	1.91	1.63	.039	.988	239	.86?	.10	.07
39	1450	77	6.2	61	6.4	536	6.2	0	1.13	.10	1	.173	1.55	.183	.787	617	.45	.10	.18
39	1200	130	6.2	125	6.3	---	---	0	3.85*	.10	1	.182	1.53	.002	.962	438	.58	.10	.12
28	1800	229	6.0	226	6.1	392	6.1	0	1.98	.10	1	1.29	1.43	.039	.989	204	.94?	.10	.06
27	1400	154	6.3	154	6.3	181	6.1	0	1.98	.10	0	1.43	1.49	.005	1.000	141	1.00?	.00	.00
26	1000	374	6.0	374	6.0	---	---	0	2.05	.10	0	1.19	1.39	.009	1.000	120	1.00?	.00	.00
32	1250	338	6.5	337	6.8	---	---	0	1.57*	.10	1	.211	1.48	.002	.998	360	.67	.30	.10
24	1250	362	6.5	362	6.6	469	6.1	0	1.56*	.10	1	.239	1.49	.001	.997	317	.72?	.10	.09
16	3100	68	6.1	38	6.5	115	6.0	0	1.00	.10	1	.388	1.37	.478	.552	1429	.22	.30	.43
33	2700	50	6.1	43	6.2	135	6.1	0	.96	.10	1	.953	1.59	.088	.863	409	.61	.10	.12
14	2800	242	6.1	177	6.4	196	6.4	0	1.35	.10	1	.396	1.37	.205	.734	925	.33	.10	.27
12	1350	530	6.7	530	6.7	---	---	0	1.55*	.10	0	5.27	1.28	.001	1.000	73	1.00?	.00	.00
10	2300	63	6.0	62	6.1	---	---	0	2.16	.10	1	2.94	1.35	.068	.980	259	.82?	.10	.07
6	1400	676	6.1	676	6.2	720	6.2	0	1.56*	.10	1	.323	1.55	.001	.999	183	.99?	.10	.05
4	2100	526	7.2	526	7.2	531	7.2	0	1.53*	.10	0	3.46	1.44	.000	1.000	90	1.00?	.00	.00
2	500	537	7.1	537	7.1	596	6.1	0	1.52*	.10	0	5.65	1.26	.000	1.000	27	1.00?	.00	.00
2	1120	596	6.1	596	6.1	---	---	0	1.51*	.10	0	5.48	1.27	.000	1.000	59	1.00?	.00	.00

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
STRUCTURE 40	.25	
ALTERNATE 1		154.78
STRUCTURE 30	.29	
ALTERNATE 1		163.14
STRUCTURE 29	3.07	
ALTERNATE 1		233.87
STRUCTURE 2	4.40	
ALTERNATE 1		529.76
STRUCTURE 1	4.84	
ALTERNATE 1		526.19
XSECTION 1	5.21	
ALTERNATE 1		636.47
XSECTION 2	5.16	
ALTERNATE 1		598.55
XSECTION 3	.09	
ALTERNATE 1		81.86
XSECTION 4	5.01	
ALTERNATE 1		537.11
XSECTION 6	4.79	
ALTERNATE 1		784.86
XSECTION 8	4.84	
ALTERNATE 1		841.81
XSECTION 9	.05	
ALTERNATE 1		59.74
XSECTION 10	.09	
ALTERNATE 1		153.75
XSECTION 11	.03	
ALTERNATE 1		64.02

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 12	4.62	
ALTERNATE 1		676.26
XSECTION 14	.38	
ALTERNATE 1		196.39
XSECTION 16	.16	
ALTERNATE 1		114.98
XSECTION 18	.10	
ALTERNATE 1		68.40
XSECTION 24	4.40	
ALTERNATE 1		611.90
XSECTION 25	3.79	
ALTERNATE 1		343.23
XSECTION 26	.39	
ALTERNATE 1		376.19
XSECTION 27	.39	
ALTERNATE 1		376.19
XSECTION 28	.25	
ALTERNATE 1		396.93
XSECTION 30	.14	
ALTERNATE 1		230.45
XSECTION 32	.08	
ALTERNATE 1		89.95
XSECTION 33	.31	
ALTERNATE 1		250.84
XSECTION 34	.07	
ALTERNATE 1		50.08
XSECTION 36	.19	
ALTERNATE 1		274.77

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 38	.09	
ALTERNATE 1		163.58
XSECTION 39	3.07	
ALTERNATE 1		[illegible].17
XSECTION 40	.22	
ALTERNATE 1		109.51
XSECTION 42	.08	
ALTERNATE 1		81.52
XSECTION 44	2.49	
ALTERNATE 1		112.52
XSECTION 54	2.90	
ALTERNATE 1		284.94
XSECTION 56	.29	
ALTERNATE 1		439.54
XSECTION 58	.06	
ALTERNATE 1		98.88
XSECTION 60	.08	
ALTERNATE 1		126.25
XSECTION 100	.67	
ALTERNATE 1		130.18
XSECTION 101	2.68	
ALTERNATE 1		426.10

MAIN - UNEXPECTED RECORD FOUND(IGNORED) >>> <<<

```
*****************80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY*****************

JOB TR-20                                                  SUMMARY   NOPLOTS
TITLE 001  WINDMILL GULCH  TR20 RUN  24 HR. 100 YR. STORM
TITLE      FUTURE CONDITIONS W/ AMC II          WG24FU1
 5 RAINFL 7                 0.25
 8              0.0000     0.0005     0.0015     0.0030     0.0045
 8              0.0060     0.0080     0.0100     0.0120     0.0143
 8              0.0165     0.0188     0.0210     0.0233     0.0255
 8              0.0278     0.0320     0.0390     0.0460     0.0530
 8              0.0600     0.0750     0.1000     0.4000     0.7000
 8              0.7250     0.7500     0.7650     0.7800     0.7900
 8              0.8000     0.8100     0.8200     0.8250     0.8300
 8              0.8350     0.8400     0.8450     0.8500     0.8550
 8              0.8600     0.8638     0.8675     0.8713     0.8750
 8              0.8788     0.8825     0.8863     0.8900     0.8938
 8              0.8975     0.9013     0.9050     0.9083     0.9115
 8              0.9148     0.9180     0.9210     0.9240     0.9270
 8              0.9300     0.9325     0.9350     0.9375     0.9400
 8              0.9425     0.9450     0.9475     0.9500     0.9525
 8              0.9550     0.9575     0.9600     0.9625     0.9650
 8              0.9675     0.9700     0.9725     0.9750     0.9775
 8              0.9800     0.9813     0.9825     0.9838     0.9850
 8              0.9863     0.9875     0.9888     0.9900     0.9913
 8              0.9925     0.9938     0.9950     0.9963     0.9975
 8              0.9988     1.0000     1.0000     1.0000     1.0000
 9 ENDTBL
 2 XSECTN   001              1.0
 8                        5713.8        0.0        0.0
 8                        5714.8       35.0       3.93
 8                        5716.8      230.0      19.63
 8                        5718.8      580.0      39.27
 8                        5720.8     1000.0      58.90
 8                        5722.8     1160.0      74.60
 8                        5725.8     1250.0      79.00
 9 ENDTBL
 2 XSECTN   002              1.0
 8                        5720.0        0.0        0.0
 8                        5721.0       35.0       3.93
 8                        5723.0      230.0      19.63
 8                        5725.0      580.0      39.27
 8                        5728.0     1000.0      58.90
 8                        5729.0     1160.0      74.60
 8                        5732.0     1250.0      79.0
 9 ENDTBL
 2 XSECTN   004              1.0
 8                        5727.0        0.0        0.0
 8                        5727.3       10.0       2.25
```

```
8                    5727.7      50.0       6.37
8                    5728.0     100.0      10.16
8                    5729.4     500.0      31.36
8                    5730.5    1000.0      51.94
8                    5731.9    2000.0      86.88
9 ENDTBL
2 XSECTN   006         1.0
8                    5770.0       0.0       0.0
8                    5770.7      50.0      26.0
8                    5771.2     160.8      54.0
8                    5772.2     526.6     116.0
8                    5773.2    1070.1     186.0
8                    5774.2    1768.9     264.0
9 ENDTBL
2 XSECTN   010         1.0
8                    5805.0       0.0       0.0
8                    5806.0      50.0       8.10
8                    5806.4     100.0      13.51
8                    5807.9     500.0      44.28
8                    5808.9    1000.0      75.23
9 ENDTBL
2 XSECTN   012         1.0
8                    5793.4       0.0       0.0
8                    5794.4      40.0       4.52
8                    5797.4     260.0      22.60
8                    5799.4    1010.0      56.55
8                    5802.4    1920.0      93.87
8                    5804.4    2020.0     107.45
8                    5807.4    2200.0     115.00
9 ENDTBL
2 XSECTN   014         1.0
8                    5847.8       0.0       0.0
8                    5849.9      50.0      34.41
8                    5850.8     100.0      57.00
8                    5854.2     500.0     186.35
8                    5856.4    1000.0     310.53
9 ENDTBL
2 XSECTN   016         1.0
8                    5848.9       0.0       0.0
8                    5851.0      50.0      34.41
8                    5851.9     100.0      57.00
8                    5855.3     500.0     186.35
8                    5856.5    1000.0     310.53
9 ENDTBL
2 XSECTN   020         1.0
8                    5853.0       0.0       0.0
```

```
8                       5854.0       50.0       8.7
8                       5854.5      100.0      14.59
8                       5856.0      500.0      48.00
9 ENDTBL
2 XSECTN   024             1.0
8                       5830.0        0.0       0.0
8                       5830.6       50.0      35.69
8                       5830.9      100.0      56.02
8                       5833.3     1000.0     276.50
8                       5834.7     2000.0     457.72
9 ENDTBL
2 XSECTN   025             1.0
8                       5830.0        0.0       0.0
8                       5830.5       50.0      10.81
8                       5830.7      100.0      17.15
8                       5831.7      500.0      51.93
8                       5832.5     1000.0      85.25
8                       5833.5     2000.0     140.38
9 ENDTBL
2 XSECTN   026             1.0
8                       5865.0        0.0       0.0
8                       5866.1       50.0      14.68
8                       5866.6      100.0      24.08
8                       5868.7      500.0      77.00
8                       5870.1     1000.0     128.77
9 ENDTBL
2 XSECTN   027             1.0
8                       5872.0        0.0       0.0
8                       5872.5       50.0      10.81
8                       5872.7      100.0      17.15
8                       5873.7      500.0      51.93
8                       5874.5     1000.0      85.25
8                       5875.5     2000.0     140.38
9 ENDTBL
2 XSECTN   028             1.0
8                       5924.0        0.0       0.0
8                       5924.5       50.0      12.79
8                       5924.8      100.0      20.62
8                       5925.7      500.0      64.86
8                       5926.4     1000.0     107.50
8                       5927.4     2000.0     178.86
9 ENDTBL
2 XSECTN   032             1.0
8                       5815.0        0.0       0.0
8                       5815.7       50.0      39.80
8                       5816.0      100.0      62.94
```

```
8                       5817.5      500.0      188.77
8                       5818.6     1000.0      311.58
8                       5820.1     2000.0      516.73
9 ENDTBL
2 XSECTN   033             1.0
8                       5848.0        0.0        0.0
8                       5848.4       50.0       12.04
8                       5848.6      100.0       18.61
8                       5849.5      500.0       52.69
8                       5850.2     1000.0       84.12
9 ENDTBL
2 XSECTN   036             1.0
8                       5856.0        0.0        0.0
8                       5858.3       10.0        3.09
8                       5858.6       50.0        9.41
8                       5858.8      100.0       15.54
8                       5859.8      500.0       50.93
8                       5860.5     1000.0       85.65
9 ENDTBL
2 XSECTN   039             1.0
8                       5850.8        0.0        0.0
8                       5851.1       10.0       13.62
8                       5851.5       50.0       38.01
8                       5853.2      500.0      180.82
8                       5854.3     1000.0      293.74
8                       5855.7     2000.0      483.89
9 ENDTBL
2 XSECTN   040             1.0
8                       5862.4        0.0        0.0
8                       5862.7       50.0        7.41
8                       5862.9      100.0       11.34
8                       5863.7      500.0       30.51
8                       5864.4     1000.0       47.25
9 ENDTBL
2 XSECTN   044             1.0
8                       5880.0        0.0        0.0
8                       5880.2       10.0        4.16
8                       5880.5       50.0       11.47
8                       5880.8      100.0       17.96
8                       5881.9      500.0       53.20
8                       5882.8     1000.0       86.99
9 ENDTBL
2 XSECTN   046             1.0
8                       5898.0        0.0        0.0
8                       5898.5       50.0       12.12
8                       5898.7      100.0       19.52
```

```
8                       5899.7       500.0       60.70
9 ENDTBL
2 XSECTN   050            1.0
8                       5898.0         0.0         0.0
8                       5898.2        10.0        4.06
8                       5898.5        50.0       11.93
8                       5898.7       100.0       19.23
8                       5899.7       500.0       59.99
9 ENDTBL
2 XSECTN   054            1.0
8                       5880.0         0.0         0.0
8                       5880.5        50.0       15.56
8                       5880.7       100.0       24.65
8                       5881.6       500.0       75.57
9 ENDTBL
2 XSECTN   056            1.0
8                       5930.0         0.0         0.0
8                       5930.2        10.0        4.32
8                       5930.5        50.0       11.96
8                       5930.8       100.0       19.04
8                       5931.9       500.0       57.76
9 ENDTBL
2 XSECTN   060            1.0
8                       5930.0         0.0         0.0
8                       5930.9        50.0       10.46
8                       5931.2       100.0       17.36
8                       5932.3       500.0       58.34
9 ENDTBL
2 XSECTN   100            1.0
8                       5854.5         0.0         0.0
8                       5856.0        45.0        12.0
8                       5857.0        98.0        25.0
8                       5858.0       162.0        28.0
8                       5860.0       320.0        44.0
9 ENDTBL
2 XSECTN   101            1.0
8                       5856.0         0.0         0.0
8                       5857.0       137.0        62.5
8                       5858.0       712.0       187.5
8                       5860.0      2537.0       437.5
9 ENDTBL
3 STRUCT      01
8                       5770.0         0.0         0.0
8                       5771.0        50.0        1.24
8                       5772.0       110.0        2.48
8                       5773.0       210.0        7.05
```

```
8                    5774.0      320.0      11.62
8                    5776.0      590.0      27.55
8                    5778.0      875.0      46.69
8                    5780.0     1180.0      67.21
8                    5782.0     1500.0      89.71
8                    5783.0     1795.0     101.86
9 ENDTBL
3 STRUCT      02
8                    5815.0        0.0       0.0
8                    5817.0       85.0       0.85
8                    5819.0      240.0       3.19
8                    5820.0      340.0       4.90
8                    5821.0      420.0       7.08
8                    5822.0      520.0       9.73
8                    5823.0      600.0      12.97
8                    5825.0      925.0      21.76
8                    5827.0     1346.0      33.95
8                    5829.0     1860.0      50.59
8                    5830.0     3600.0      60.93
9 ENDTBL
3 STRUCT      29
8                    5844.0        0.0       0.0
8                    5846.0       30.0       0.62
8                    5848.0       90.0       3.13
8                    5850.0      155.0       9.11
8                    5852.0      205.0      20.08
8                    5856.0      290.0      57.59
8                    5858.0      320.0      81.28
8                    5860.0      525.0     106.44
8                    5862.0      870.0     135.0
9 ENDTBL
3 STRUCT      30
8                    5922.0        0.0       0.0
8                    5924.0       50.0       0.52
8                    5926.0      105.0       3.15
8                    5928.0      160.0       9.12
8                    5930.0      205.0      17.34
8                    5934.0      400.0      35.98
9 ENDTBL
3 STRUCT      40
8                    5926.0        0.0       0.0
8                    5928.0       50.0       0.5
8                    5930.0      105.0       4.7
8                    5934.0      280.0      20.7
8                    5938.0      485.0      39.3
8                    5940.0      690.0      49.3
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)*********************

 9 ENDTBL
 6 RUNOFF 1 060       7     0.084      88.0     0.28        1
 6 RUNOFF 1 058       6     0.063      88.0     0.24        1
 6 REACH  3 056   6   5  2700.
 6 RUNOFF 1 056       4     0.148      88.0     0.22        1
 6 ADDHYD 4 056   4 5 6                                      1
 6 ADDHYD 4 056   7 6 5                                      1 1   1
 6 RESVOR 2    30 5   4  5922.0                              1 1   1
 6 REACH  3 054   4   6  2380.
 6 RUNOFF 1 054       7     0.117      79.4     0.26        1
 6 ADDHYD 4 054   6 7 4                                      1
 6 REACH  3 044   1   7   700.                               1
 6 RUNOFF 1 044       5     0.021      91.4     0.17        1
 6 ADDHYD 4 044   7 5 6                                      1
 6 ADDHYD 4 054   6 4 5                                      1
 6 REACH  3 039   5   3  3400.
 6 RUNOFF 1 038       7     0.088      90.0     0.17        1
 6 REACH  3 036   7   5  1080.
 6 REACH  3 039   5   6  1050.
 6 RUNOFF 1 036       4     0.099      88.3     0.46        1
 6 ADDHYD 4 036   4 6 7                                      1
 6 ADDHYD 4 039   3 7 5                                      1
 6 RUNOFF 1 042       6     0.084      78.1     0.25        1
 6 REACH  3 040   6   7  3120.
 6 REACH  3 039   7   3  1450.
 6 RUNOFF 1 040       4     0.141      74.5     0.42        1
 6 ADDHYD 4 040   3 4 6                                      1
 6 ADDHYD 4 039   5 6 7                                      1
 6 RUNOFF 1 039       4     0.043      80.3     0.17        1
 6 ADDHYD 4 039   7 4 5                                      1 1   1
 6 DIVERT 6 100   5 6 2                0.2     101.         1
 6 REACH  3 039   6   1  1200.                               1
 6 RUNOFF 1 030       5     0.139      90.0     0.27        1
 6 REACH  3 028   5   7  1800.
 6 RUNOFF 1 028       4     0.108      90.0     0.24        1
 6 ADDHYD 4 028   4 7 5                                      1
 6 RESVOR 2    40 5   7   5926.0                             1 1   1
 6 REACH  3 027   7   4  1400.
 6 RUNOFF 1 027       7     0.035      92.0     0.21        1
 6 ADDHYD 4 027   4 7 5                                      1
 6 RUNOFF 1 026       4     0.109      92.0     0.22        1
 6 ADDHYD 4 027   4 5 7                                      1
 6 REACH  3 026   7   5  1000.0
 6 ADDHYD 4 039   5 2 7                                      1
 6 RESVOR 2    29 7   4  5844.0                              1 1   1
 6 ADDHYD 4 032   4 1 5                                      1
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)**********************

 6 REACH  3 032   5   6  1250.
 6 RUNOFF 1 025       4     0.050      88.2     0.17        1
 6 ADDHYD 4 025   6 4 5                                      1
 6 RUNOFF 1 032       7     0.083      83.5     0.38        1
 6 ADDHYD 4 024   5 7 4                                      1
 6 REACH  3 024   4   6  1250.
 6 RUNOFF 1 024       7     0.143      88.9     0.23        1
 6 ADDHYD 4 024   6 7 5                                      1
 6 RUNOFF 1 018       6     0.098      75.8     0.37        1
 6 REACH  3 016   6   7  3100.
 6 RUNOFF 1 016       6     0.065      89.9     0.23        1
 6 ADDHYD 4 016   7 6 3
 6 RUNOFF 1 034       6     0.067      75.0     0.30        1
 6 REACH  3 033   6   7  2700.
 6 RUNOFF 1 033       6     0.081      85.0     0.24        1
 6 ADDHYD 4 033   7 6 1                                      1
 6 ADDHYD 4 033   3 1 4                                      1
 6 REACH  3 014   4   6  2800.
 6 RUNOFF 1 014       4     0.068      82.7     0.30        1
 6 ADDHYD 4 014   4 6 7                                      1
 6 ADDHYD 4 024   7 5 4                                      1
 6 RESVOR 2    02 4   6   5815.0                             1 1   1
 6 REACH  3 012   6   7  1350.
 6 RUNOFF 1 011       5     0.032      92.0     0.17        1
 6 REACH  3 010   5   4  2300.
 6 RUNOFF 1 010       5     0.086      89.0     0.17        1
 6 ADDHYD 4 012   4 5 6                                      1
 6 ADDHYD 4 012   6 7 5                                      1
 6 RUNOFF 1 012       7     0.102      86.1     0.30        1
 6 ADDHYD 4 012   7 5 6                                      1
 6 REACH  3 006   6   7  1400.
 6 RUNOFF 1 006       5     0.084      77.6     0.25        1
 6 ADDHYD 4 006   5 7 6                                      1
 6 RUNOFF 1 008       7     0.084      78.2     0.28        1
 6 ADDHYD 4 006   7 6 5                                      1
 6 RUNOFF 1 009       6     0.052      81.6     0.25        1
 6 ADDHYD 4 008   5 6 4                                      1
 6 RESVOR 2    01 4   7   5770.0                             1 1   1
 6 REACH  3 004   7   6  2100.
 6 RUNOFF 1 004       5     0.084      80.2     0.25        1
 6 ADDHYD 4 004   5 6 7                                      1
 6 RUNOFF 1 003       5     0.085      78.0     0.23        1
 6 ADDHYD 4 004   7 5 4                                      1
 6 REACH  3 002   4   6   500.
 6 RUNOFF 1 002       7     0.155      78.0     0.26        1
 6 ADDHYD 4 002   7 6 4                                      1
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)**********************

 6 REACH  3 002   4   6  1120.
 6 RUNOFF 1 001       5     0.043      78.0     0.23        1
 6 ADDHYD 4 001   6 5 7                                    1 1   1
   ENDATA
 7 READHD 8     1                                                   STR   50
 7 READHD 9        .0000       .1000      2.4660       .0000          A 1  5 1
 8                   .00         .00         .00         .00         .00      1
 8                   .00         .00         .00         .00         .00      2
 8                   .00         .00         .00         .00         .00      3
 8                   .01         .07         .18         .34         .48      4
 8                   .58         .65         .69         .71         .73      5
 8                   .74         .75         .76         .77         .78      6
 8                   .79         .81         .83         .85         .87      7
 8                   .89         .92         .95         .98        1.01      8
 8                  1.05        1.09        1.13        1.17        1.21      9
 8                  1.26        1.31        1.36        1.41        1.46     10
 8                  1.51        1.58        1.66        1.77        1.96     11
 8                  2.26        3.12        6.14       11.54       20.41     12
 8                 33.71       53.22       79.88       96.80      103.40     13
 8                108.27      111.78      114.26      115.73      116.86     14
 8                117.75      118.47      119.09      119.61      120.07     15
 8                120.47      120.85      121.20      121.54      121.89     16
 8                122.23      122.57      122.90      123.21      123.49     17
 8                123.74      123.97      124.19      124.41      124.63     18
 8                124.84      125.06      125.29      125.52      125.75     19
 8                125.98      126.22      126.46      126.71      126.96     20
 8                127.21      127.47      127.73      127.98      128.22     21
 8                128.46      128.70      128.93      129.17      129.40     22
 8                129.64      129.88      130.11      130.35      130.60     23
 8                130.84      131.08      131.31      131.55      131.78     24
 8                132.02      132.25      132.49      132.73      132.97     25
 8                133.21      133.45      133.69      133.93      134.17     26
 8                134.41      134.65      134.89      135.13      135.36     27
 8                135.60      135.82      136.05      136.28      136.50     28
 8                136.73      136.95      137.18      137.40      137.62     29
 8                137.84      138.05      138.27      138.51      138.75     30
 8                139.00      139.27      139.54      139.81      140.08     31
 8                140.35      140.62      140.89      141.16      141.43     32
 8                141.69      141.96      142.21      142.47      142.72     33
 8                142.97      143.21      143.45      143.68      143.91     34
 8                144.13      144.35      144.56      144.77      144.96     35
 8                145.16      145.34      145.52      145.69      145.86     36
 8                146.02      146.17      146.32      146.46      146.60     37
 8                146.74      146.88      147.01      147.13      147.25     38
 8                147.36      147.48      147.59      147.70      147.81     39
 8                147.92      148.03      148.13      148.24      148.34     40
```

```
**********************80-80 LIST OF INPUT DATA (CONTINUED)********************

 8                148.45      148.55      148.64      148.73      148.81      41
 8                148.89      148.95      149.01      149.07      149.12      42
 8                149.18      149.23      149.28      149.32      149.37      43
 8                149.41      149.45      149.50      149.54      149.57      44
 8                149.61      149.65      149.68      149.71      149.74      45
 8                149.77      149.80      149.83      149.85      149.88      46
 8                149.90      149.92      149.94      149.96      149.97      47
 8                149.99      150.00      150.01      150.02      150.02      48
 8                150.03      150.03      150.03      150.02      150.00      49
 8                149.97      149.94      149.90      149.85      149.81      50
 8                149.76      149.70      149.65      149.59      149.54      51
 8                149.48      149.42      149.35      149.29      149.22      52
 8                149.15      149.08      149.01      148.94      148.86      53
 8                148.79      148.71      148.63      148.54      148.46      54
 8                148.37      148.[illegible]      148.19      148.10      148.01      55
 8                147.91      147.82      147.72      147.62      147.51      56
 8                147.41      147.30      147.19      147.08      146.96      57
 8                146.83      146.70      146.56      146.43      146.29      58
 8                146.14      146.00      145.85      145.71      145.55      59
 8                145.40      145.25      145.09      144.93      144.77      60
 9 ENDTBL
 7 INCREM 6                0.10
 7 COMPUT 7 060   001       0.0         4.50        1.0    7 2  01  01
   ENDCMP 1
   ENDJOB 2


*****************************END OF 80-80 LIST******************************


EXECUTIVE CONTROL OPERATION READHD     DISCHARGE HYDROGRAPH, HYDROGRAPH LOCATION 1                          RECORD ID STR   50

  STARTING TIME=   .00     TIME INCREMENT=   .10     DRAINAGE AREA=   2.47     BASE FLOW=    .00

8                  .00         .00         .00         .00         .00
8                  .00         .00         .00         .00         .00
8                  .00         .00         .00         .00         .00
8                  .01         .07         .18         .34         .48
8                  .58         .65         .69         .71         .73
8                  .74         .75         .76         .77         .78
8                  .79         .81         .83         .85         .87
8                  .89         .92         .95         .98        1.01
8                 1.05        1.09        1.13        1.17        1.21
8                 1.26        1.31        1.36        1.41        1.46
8                 1.51        1.58        1.66        1.77        1.96
8                 2.26        3.12        6.14       11.54       20.41
8                33.71       53.22       79.88       96.80      103.40
8               108.27      111.78      114.26      115.73      116.86
8               117.75      118.47      119.09      119.61      120.07
8               120.47      120.85      121.20      121.54      121.89
8               122.23      122.57      122.90      123.21      123.49
8               123.74      123.97      124.19      124.41      124.63
8               124.84      125.06      125.29      125.52      125.75
8               125.98      126.22      126.46      126.71      126.96
```

8	127.21	127.47	127.73	127.98	128.22
8	128.46	128.70	128.93	129.17	129.40
8	129.64	129.88	130.11	130.35	130.60
8	130.84	131.08	131.31	131.55	131.78
8	132.02	132.25	132.49	132.73	132.97
8	133.21	133.45	133.69	133.93	134.17
8	134.41	134.65	134.89	135.13	135.36
8	135.60	135.82	136.05	136.28	136.50
8	136.73	136.95	137.18	137.40	137.62
8	137.84	138.05	138.27	138.51	138.75
8	139.00	139.27	139.54	139.81	140.08
8	140.35	140.62	140.89	141.16	141.43
8	141.69	141.96	142.21	142.47	142.72
8	142.97	143.21	143.45	143.68	143.91
8	144.13	144.35	144.56	144.77	144.96
8	145.16	145.34	145.52	145.69	145.86
8	146.02	146.17	146.32	146.46	146.60
8	146.74	146.88	147.01	147.13	147.25
8	147.36	147.48	147.59	147.70	147.81
8	147.92	148.03	148.13	148.24	148.34
8	148.45	148.55	148.64	148.73	148.81
8	148.89	148.95	149.01	149.07	149.12
8	149.18	149.23	149.28	149.32	149.37

8	149.41	149.45	149.50	149.54	149.57
8	149.61	149.65	149.68	149.71	149.74
8	149.77	149.80	149.83	149.85	149.88
8	149.90	149.92	149.94	149.96	149.97
8	149.99	150.00	150.01	150.02	150.02
8	150.03	150.03	150.03	150.02	150.00
8	149.97	149.94	149.90	149.85	149.81
8	149.76	149.70	149.65	149.59	149.54
8	149.48	149.42	149.35	149.29	149.22
8	149.15	149.08	149.01	148.94	148.86
8	148.79	148.71	148.63	148.54	148.46
8	148.37	148.28	148.19	148.10	148.01
8	147.91	147.82	147.72	147.62	147.51
8	147.41	147.30	147.19	147.08	146.96
8	146.83	146.70	146.56	146.43	146.29
8	146.14	146.00	145.85	145.71	145.55
8	145.40	145.25	145.09	144.93	144.77

9 ENDTBL

EXECUTIVE CONTROL OPERATION INCREM MAIN TIME INCREMENT = .10 HOURS RECORD ID

EXECUTIVE CONTROL OPERATION COMPUT FROM XSECTION 60 TO XSECTION 1 RECORD ID
STARTING TIME = .00 RAIN DEPTH = 4.50 RAIN DURATION= 1.00 RAIN TABLE NO.= 7 ANT. MOIST. COND= 2
ALTERNATE NO.= 1 STORM NO.= 1 MAIN TIME INCREMENT = .10 HOURS

OPERATION RUNOFF CROSS SECTION 60

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.03	221.81	(RUNOFF)
7.85	8.94	(RUNOFF)
9.92	4.50	(RUNOFF)
19.86	2.29	(RUNOFF)
23.81	1.17	(RUNOFF)

OPERATION RUNOFF CROSS SECTION 58

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.00	173.03	(RUNOFF)
7.95	6.78	(RUNOFF)

*** WARNING REACH 56 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.99	415.06	(RUNOFF)
7.90	15.75	(RUNOFF)
9.95	7.98	(RUNOFF)
19.86	4.03	(RUNOFF)
23.78	2.08	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.02	557.72	5932.06
7.89	22.45	5930.29
9.95	11.36	5930.21
12.80	8.59	5930.17
14.87	6.85	5930.14
19.86	5.74	5930.11
23.80	2.94	5930.06

OPERATION ADDHYD CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.02	779.44	5932.67
7.88	31.39	5930.36
9.95	15.88	5930.24
12.81	12.02	5930.22
14.87	9.58	5930.19
19.86	8.03	5930.16
23.80	4.11	5930.08

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .29 SQ.MI.

5.00	DISCHG	.00	.07	.65	1.99	4.92	9.80	64.25	259.21	486.83	662.49
6.00	DISCHG	776.30	726.60	457.89	249.15	147.53	104.41	82.85	64.90	54.27	49.54
7.00	DISCHG	47.77	44.87	38.94	34.67	32.65	31.83	31.51	31.40	31.38	31.39
8.00	DISCHG	31.37	29.13	23.38	19.14	17.11	16.27	15.94	15.81	15.77	15.76
9.00	DISCHG	15.77	15.77	15.78	15.78	15.79	15.79	15.80	15.80	15.81	15.81
10.00	DISCHG	15.81	15.26	13.87	12.84	12.26	11.95	11.86	11.92	11.97	11.92
11.00	DISCHG	11.83	11.82	11.91	11.98	11.93	11.84	11.83	11.93	11.99	11.94
12.00	DISCHG	11.85	11.84	11.94	12.01	11.95	11.86	11.86	11.95	12.02	11.97
13.00	DISCHG	11.87	11.63	11.14	10.78	10.52	10.35	10.31	10.39	10.45	10.39
14.00	DISCHG	10.30	10.15	9.90	9.72	9.63	9.60	9.58	9.58	9.58	9.58
15.00	DISCHG	9.58	9.35	8.76	8.33	8.13	8.04	8.01	8.00	7.99	7.99
16.00	DISCHG	7.99	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
17.00	DISCHG	8.00	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01
18.00	DISCHG	8.01	8.01	8.02	8.02	8.02	8.02	8.02	8.02	8.02	8.02
19.00	DISCHG	8.02	8.02	8.02	8.03	8.03	8.03	8.03	8.03	8.03	8.03
20.00	DISCHG	8.02	7.46	6.05	5.00	4.41	4.09	4.00	4.06	4.11	4.05

21.00	DISCHG	3.95	3.95	4.04	4.10	4.05	3.95	3.95	4.04	4.11	4.05
22.00	DISCHG	3.96	3.95	4.04	4.11	4.05	3.96	3.95	4.04	4.11	4.05
23.00	DISCHG	3.96	3.95	4.04	4.11	4.05	3.96	3.95	4.05	4.11	4.05
24.00	DISCHG	3.95	3.33	1.89	.84	.34	.13	.04	.01	.00	

RUNOFF VOLUME ABOVE BASEFLOW = 3.20 WATERSHED INCHES, 608.80 CFS-HRS, 50.31 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION RESVOR STRUCTURE 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.32	240.29	5930.72
9.95	15.83	5922.63
12.89	11.97	5922.48
13.87	10.42	5922.42
19.89	8.03	5922.32
23.89	4.06	5922.16

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .29 SQ.MI.

5.00	DISCHG	.00	.02	.21	.84	2.33	5.19	23.29	64.55	108.98	143.13
6.00	DISCHG	175.32	200.81	229.59	239.86	236.42	227.27	216.19	204.68	198.26	191.78
7.00	DISCHG	185.45	179.30	173.22	167.18	161.28	152.65	143.78	135.54	127.90	120.82
8.00	DISCHG	114.26	108.10	98.70	86.38	75.52	66.16	58.20	51.47	34.96	24.05
9.00	DISCHG	19.34	17.31	16.44	16.06	15.90	15.84	15.81	15.80	15.80	15.81
10.00	DISCHG	15.81	15.65	15.03	14.08	13.21	12.58	12.20	12.02	11.98	11.96
11.00	DISCHG	11.91	11.86	11.86	11.91	11.94	11.91	11.87	11.87	11.92	11.95
12.00	DISCHG	11.92	11.88	11.89	11.94	11.96	11.93	11.89	11.90	11.95	11.97
13.00	DISCHG	11.94	11.83	11.58	11.23	10.90	10.64	10.46	10.40	10.41	10.41
14.00	DISCHG	10.38	10.29	10.14	9.95	9.79	9.69	9.63	9.60	9.59	9.58
15.00	DISCHG	9.58	9.51	9.25	8.85	8.50	8.26	8.13	8.06	8.02	8.01
16.00	DISCHG	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
17.00	DISCHG	8.00	8.00	8.00	8.01	8.01	8.01	8.01	8.01	8.01	8.01
18.00	DISCHG	8.01	8.01	8.01	8.02	8.02	8.02	8.02	8.02	8.02	8.02
19.00	DISCHG	8.02	8.02	8.02	8.02	8.02	8.03	8.03	8.03	8.03	8.03
20.00	DISCHG	8.03	7.87	7.24	6.26	5.38	4.74	4.34	4.16	4.12	4.10
21.00	DISCHG	4.04	3.99	3.99	4.04	4.06	4.03	3.98	3.99	4.04	4.06
22.00	DISCHG	4.03	3.98	3.99	4.04	4.06	4.03	3.99	3.99	4.04	4.06
23.00	DISCHG	4.03	3.99	3.99	4.04	4.06	4.03	3.99	3.99	4.04	4.06
24.00	DISCHG	4.03	3.81	3.13	2.13	1.25	.67	.34	.16	.07	.03
25.00	DISCHG	.01	.01	.00							

RUNOFF VOLUME ABOVE BASEFLOW = 3.19 WATERSHED INCHES, 607.67 CFS-HRS, 50.22 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 54 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.04	238.45	(RUNOFF)
7.95	10.88	(RUNOFF)
9.93	5.49	(RUNOFF)
19.91	2.85	(RUNOFF)
23.80	1.47	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.08	394.66	5881.36
12.91	16.12	5880.16
19.93	10.88	5880.11
23.89	5.47	5880.05

*** WARNING REACH 44 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 44 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 145.55 CFS, 97.01 % OF PEAK.

OPERATION REACH CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
24.00	150.03*	5880.94	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.96	67.54	(RUNOFF)
7.95	2.38	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.04	101.37	5880.80
23.95	150.33	5880.94

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.08	493.51	5881.59
10.04	149.69	5880.81
19.98	159.92	5880.83
23.84	155.79	5880.83

*** WARNING - REACH 39 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 145.55 CFS, 29.62 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 38

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.97	274.18	(RUNOFF)
7.95	9.82	(RUNOFF)
9.89	4.83	(RUNOFF)
19.85	2.44	(RUNOFF)
23.76	1.26	(RUNOFF)

*** WARNING REACH 36 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING REACH 37 ATT-KIN COEFF.(C) GREATER THAN 0.667. CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 36

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.12	222.14	(RUNOFF)
9.95	5.33	(RUNOFF)
12.90	4.03	(RUNOFF)
19.87	2.70	(RUNOFF)
23.89	1.37	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 36

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.09	482.32	5859.76
9.95	10.16	5858.30
12.88	7.70	5858.23
13.87	6.70	5858.20
19.90	5.14	5858.15
23.88	2.62	5858.08

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.15	793.43	5853.85
20.06	164.85	5851.93
23.90	158.37	5851.91

OPERATION RUNOFF CROSS SECTION 42

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.04	165.30	(RUNOFF)
7.95	7.61	(RUNOFF)
19.95	2.02	(RUNOFF)
23.79	1.03	(RUNOFF)

*** WARNING REACH 40 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.13	195.54	(RUNOFF)
9.95	5.97	(RUNOFF)
19.89	3.15	(RUNOFF)
23.87	1.61	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.20	309.75	5863.32
9.96	9.80	5862.46
13.89	6.57	5862.44
19.92	5.15	5862.43
23.92	2.61	5862.42

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.16	1098.95	5854.44
13.10	166.02	5851.94
15.10	164.47	5851.93
20.03	169.91	5851.95
23.91	160.98	5851.92

OPERATION RUNOFF CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.98	101.49	(RUNOFF)
7.95	4.13	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.14	1150.40	5854.51
13.07	167.51	5851.94
15.07	165.66	5851.94
19.98	170.96	5851.96
23.89	161.50	5851.92

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 3.35 SQ.MI.

1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.02	.08	.17
2.00	DISCHG	.28	.39	.48	.55	.61	.65	.68	.71	.73	.74
3.00	DISCHG	.75	.77	.78	.80	.82	.83	.85	.88	.90	.93
4.00	DISCHG	.96	.99	1.02	1.06	1.10	1.14	1.19	1.25	1.33	1.47
5.00	DISCHG	1.67	1.92	2.51	3.65	5.27	8.79	25.15	132.52	364.40	645.03
6.00	DISCHG	934.07	1131.87	1113.21	939.58	763.76	642.66	571.74	521.73	482.87	453.25
7.00	DISCHG	432.37	416.61	401.20	385.99	372.96	362.59	354.23	346.32	338.39	330.51
8.00	DISCHG	322.81	314.16	302.57	289.37	276.29	263.75	251.97	241.11	231.28	222.52
9.00	DISCHG	211.97	201.10	191.87	184.88	179.95	176.63	174.48	173.15	172.36	171.94
10.00	DISCHG	171.76	171.42	170.40	168.90	167.41	166.10	165.05	164.30	163.83	163.51
11.00	DISCHG	163.29	163.20	163.27	163.46	163.64	163.79	163.95	164.20	164.50	164.76
12.00	DISCHG	164.95	165.14	165.40	165.71	165.98	166.18	166.38	166.65	166.96	167.24
13.00	DISCHG	167.43	167.50	167.30	166.92	166.51	166.10	165.81	165.67	165.66	165.70
14.00	DISCHG	165.72	165.71	165.60	165.44	165.30	165.23	165.21	165.24	165.31	165.44
15.00	DISCHG	165.59	165.65	165.40	164.94	164.50	164.17	163.94	163.81	163.77	163.81
16.00	DISCHG	163.92	164.08	164.27	164.49	164.72	164.96	165.20	165.45	165.69	165.94
17.00	DISCHG	166.17	166.41	166.64	166.86	167.08	167.29	167.50	167.70	167.90	168.09
18.00	DISCHG	168.27	168.44	168.61	168.78	168.93	169.09	169.23	169.38	169.52	169.66
19.00	DISCHG	169.79	169.92	170.04	170.17	170.28	170.40	170.52	170.63	170.74	170.86
20.00	DISCHG	170.96	170.75	169.71	168.11	166.48	165.00	163.78	162.86	162.20	161.70
21.00	DISCHG	161.29	161.01	160.89	160.88	160.87	160.81	160.77	160.81	160.90	160.96
22.00	DISCHG	160.94	160.93	160.98	161.08	161.14	161.12	161.10	161.15	161.25	161.30
23.00	DISCHG	161.27	161.24	161.28	161.38	161.42	161.39	161.35	161.39	161.47	161.50
24.00	DISCHG	161.45	161.05	159.83	158.07	156.33	154.83	153.58	152.55	151.75	151.14
25.00	DISCHG	150.70	150.38	150.13	149.96	149.83	149.73	149.64	149.56	149.49	149.41
26.00	DISCHG	149.35	149.27	149.21	149.13	149.07	148.99	148.92	148.85	148.77	148.69
27.00	DISCHG	148.60	148.52	148.43	148.35	148.26	148.17	148.08	147.99	147.89	147.79
28.00	DISCHG	147.69	147.59	147.49	147.38	147.27	147.16	147.04	146.92	146.79	146.66
29.00	DISCHG	146.53	146.39	146.25	146.11	145.97	145.82	93.95	60.53	39.00	25.13

RUNOFF VOLUME ABOVE BASEFLOW = 2.25 WATERSHED INCHES, 4880.42 CFS-HRS, 403.32 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION DIVERT CROSS SECTION 100

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.14	184.02	5858.28
19.98	80.14	5856.66
23.89	77.50	5856.61

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.14	966.38	5858.28
13.07	88.33	5856.64
15.07	87.01	5856.64
19.98	90.83	5856.66
23.89	84.01	5856.61

*** WARNING - REACH 39 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 25.13 CFS, 13.76 % OF PEAK.

OPERATION REACH CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.30	176.98	5851.98
20.10	80.12	5851.61
24.02	77.49	5851.60

OPERATION RUNOFF CROSS SECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.01	392.15	(RUNOFF)
7.86	15.16	(RUNOFF)
9.89	7.62	(RUNOFF)
19.85	3.86	(RUNOFF)
23.80	1.98	(RUNOFF)

*** WARNING REACH 28 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 28

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.99	313.43	(RUNOFF)
7.95	11.91	(RUNOFF)
9.88	5.92	(RUNOFF)
19.95	3.03	(RUNOFF)
23.79	1.54	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 28

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.00	705.05	5925.99
7.90	26.94	5924.27
9.88	13.54	5924.14
12.80	10.29	5924.10
14.87	8.19	5924.08
19.86	6.85	5924.07
23.80	3.52	5924.04

OPERATION RESVOR STRUCTURE 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.27	251.61	5933.35
9.94	13.54	5926.54
12.89	10.25	5926.41
13.87	8.91	5926.36
19.87	6.85	5926.27
23.88	3.47	5926.14

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .25 SQ.MI.

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.04	.18
5.00	DISCHG	.44	.88	1.77	3.22	5.53	9.19	30.30	61.82	95.21	136.90
6.00	DISCHG	182.66	224.87	248.85	251.11	242.11	229.62	216.36	202.93	189.64	176.99
7.00	DISCHG	165.26	154.39	144.11	134.32	125.16	116.71	108.96	101.29	93.65	86.80
8.00	DISCHG	80.66	75.03	69.60	64.25	59.20	54.57	50.38	30.64	20.63	16.47
9.00	DISCHG	14.74	14.03	13.73	13.61	13.56	13.54	13.54	13.54	13.54	13.54
10.00	DISCHG	13.54	13.39	12.79	11.90	11.16	10.66	10.37	10.25	10.24	10.23
11.00	DISCHG	10.19	10.14	10.15	10.20	10.22	10.19	10.15	10.16	10.21	10.23
12.00	DISCHG	10.19	10.15	10.17	10.22	10.24	10.20	10.16	10.17	10.23	10.25
13.00	DISCHG	10.21	10.11	9.87	9.54	9.26	9.04	8.91	8.87	8.90	8.90
14.00	DISCHG	8.86	8.78	8.64	8.47	8.34	8.26	8.22	8.20	8.19	8.19
15.00	DISCHG	8.19	8.12	7.87	7.50	7.20	7.01	6.92	6.87	6.85	6.83
16.00	DISCHG	6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.83
17.00	DISCHG	6.83	6.83	6.83	6.84	6.84	6.84	6.84	6.84	6.84	6.84
18.00	DISCHG	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84
19.00	DISCHG	6.84	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85
20.00	DISCHG	6.85	6.69	6.09	5.19	4.43	3.92	3.63	3.51	3.50	3.49
21.00	DISCHG	3.44	3.39	3.40	3.45	3.47	3.43	3.39	3.40	3.45	3.47
22.00	DISCHG	3.43	3.39	3.40	3.45	3.47	3.43	3.39	3.40	3.45	3.47
23.00	DISCHG	3.43	3.39	3.40	3.45	3.47	3.43	3.39	3.40	3.45	3.47
24.00	DISCHG	3.43	3.22	2.58	1.65	.91	.46	.22	.10	.05	.02
25.00	DISCHG	.01	.00								

RUNOFF VOLUME ABOVE BASEFLOW = 3.39 WATERSHED INCHES, 540.40 CFS-HRS, 44.66 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 27 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.98	109.87	(RUNOFF)
7.87	3.90	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.10	312.56	5873.23
9.93	15.50	5872.15
12.86	11.72	5872.12
13.83	10.19	5872.10
19.87	7.84	5872.08
23.86	3.97	5872.04

OPERATION RUNOFF CROSS SECTION 26

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.98	338.81	(RUNOFF)
7.87	12.14	(RUNOFF)
9.91	6.09	(RUNOFF)
19.86	3.07	(RUNOFF)
23.78	1.58	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.02	630.45	5873.91
9.92	21.59	5872.22
12.82	16.34	5872.16
13.80	14.21	5872.14
19.86	10.91	5872.11
23.81	5.54	5872.06

*** WARNING REACH 26 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.09	1542.08	5855.06
12.97	104.50	5851.71
13.82	101.21	5851.69
14.98	99.99	5851.69
19.96	101.79	5851.70
23.84	89.53	5851.65

OPERATION RESVOR STRUCTURE 29

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.97	316.91	5857.79
20.06	101.29	5848.35

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 3.07 SQ.MI.

4.00	DISCHG	.00	.00	.00	.00	.02	.08	.22	.40	.63	.91
5.00	DISCHG	1.25	1.79	2.82	4.49	7.09	11.15	28.71	65.95	118.51	167.46
6.00	DISCHG	205.82	229.25	251.86	270.00	283.67	292.27	296.88	300.67	303.79	306.41
7.00	DISCHG	308.63	310.52	312.11	313.40	314.44	315.27	315.91	316.39	316.71	316.88
8.00	DISCHG	316.90	316.78	316.48	315.98	315.29	314.44	313.44	312.22	310.76	309.16
9.00	DISCHG	307.48	305.73	303.91	302.05	300.16	298.26	296.36	294.47	292.59	290.72
10.00	DISCHG	287.99	284.73	281.51	278.30	275.12	271.95	268.83	265.74	262.71	259.73
11.00	DISCHG	256.79	253.91	251.08	248.31	245.59	242.92	240.30	237.74	235.23	232.77
12.00	DISCHG	230.35	227.98	225.66	223.39	221.17	218.98	216.84	214.75	212.70	210.69
13.00	DISCHG	208.71	206.78	204.74	200.99	197.35	193.82	190.40	187.10	183.93	180.87
14.00	DISCHG	177.92	175.08	172.33	169.67	167.09	164.61	162.21	159.90	157.68	155.54
15.00	DISCHG	151.48	147.04	142.95	139.13	135.57	132.28	129.23	126.43	123.86	121.51
16.00	DISCHG	119.37	117.42	115.65	114.04	112.59	111.27	110.08	109.01	108.05	107.19
17.00	DISCHG	106.41	105.72	105.10	104.55	104.06	103.62	103.23	102.90	102.60	102.34
18.00	DISCHG	102.11	101.92	101.75	101.61	101.48	101.38	101.30	101.23	101.18	101.14
19.00	DISCHG	101.12	101.10	101.09	101.10	101.10	101.12	101.14	101.17	101.20	101.23
20.00	DISCHG	101.27	101.28	101.16	100.84	100.36	99.75	99.07	98.37	97.68	97.01
21.00	DISCHG	96.36	95.74	95.16	94.64	94.16	93.71	93.30	92.92	92.59	92.29
22.00	DISCHG	92.01	91.75	91.52	91.31	91.14	90.97	90.81	90.67	90.55	90.45
23.00	DISCHG	90.35	90.25	90.17	90.10	90.04	89.97	89.85	89.76	89.70	89.67
24.00	DISCHG	89.63	89.50	89.08	88.29	87.21	86.00	84.76	83.56	82.44	81.42
25.00	DISCHG	80.52	79.72	79.04	78.44	77.94	77.51	77.15	76.84	76.57	76.35
26.00	DISCHG	76.15	75.98	75.83	75.70	75.59	75.49	75.39	75.30	75.22	75.14
27.00	DISCHG	75.07	75.00	74.93	74.86	74.79	74.73	74.66	74.59	74.53	74.46
28.00	DISCHG	74.39	74.32	74.25	74.18	74.11	74.04	73.96	73.89	73.81	73.72
29.00	DISCHG	73.64	73.55	73.46	73.37	73.28	73.18	69.73	61.38	51.35	42.11

RUNOFF VOLUME ABOVE BASEFLOW = 1.88 WATERSHED INCHES, 3724.54 CFS-HRS, 307.80 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION ADDHYD CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.42	454.69	5817.33
20.07	181.41	5816.31

*** WARNING REACH 32 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 32 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 87.03 CFS, 19.15 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.97	149.05	(RUNOFF)
7.95	5.46	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.13	398.81	5831.45
6.55	463.29	5831.61
19.98	182.63	5830.91

OPERATION RUNOFF CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.09	172.61	(RUNOFF)
9.91	4.18	(RUNOFF)
19.86	2.14	(RUNOFF)
23.86	1.09	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.11	569.70	5832.15
19.97	184.78	5831.13

*** WARNING REACH 24 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 24 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 113.42 CFS, 19.92 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.99	407.03	(RUNOFF)
7.92	15.39	(RUNOFF)
9.93	7.75	(RUNOFF)
19.86	3.93	(RUNOFF)
23.79	2.02	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.09	838.86	5832.87
19.97	188.63	5831.14
23.67	171.21	5831.09

OPERATION RUNOFF CROSS SECTION 18

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.10	152.77	(RUNOFF)
9.95	4.28	(RUNOFF)
19.87	2.24	(RUNOFF)
23.86	1.15	(RUNOFF)

OPERATION RUNOFF CROSS SECTION 16

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.99	190.03	(RUNOFF)
7.91	7.08	(RUNOFF)

OPERATION RUNOFF CROSS SECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	111.75	(RUNOFF)
7.95	5.64	(RUNOFF)

*** WARNING REACH 33 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.01	203.31	(RUNOFF)
7.95	8.35	(RUNOFF)
9.90	4.17	(RUNOFF)
19.95	2.16	(RUNOFF)
23.79	1.10	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.06	279.01	5849.00
7.95	13.94	5848.11
9.95	7.06	5848.06
19.95	3.67	5848.03
23.82	1.86	5848.01

OPERATION ADDHYD CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.05	483.70	5849.46
12.81	11.34	5848.09
19.95	7.73	5848.06
23.80	3.91	5848.03

OPERATION RUNOFF CROSS SECTION 14

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.06	151.70	(RUNOFF)
7.95	6.72	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 14

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.27	432.57	5853.63
12.96	13.85	5848.38
19.95	9.43	5848.20
23.94	4.73	5848.00

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.12	1222.22	5833.61
19.96	198.06	5831.16
23.67	175.93	5831.10

OPERATION RESVOR STRUCTURE 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.49	915.80	5824.94
20.00	197.93	5818.46

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 4.40 SQ.MI.

2.00	DISCHG	.00	.01	.04	.09	.16	.24	.33	.42	.49	.56
3.00	DISCHG	.61	.65	.68	.70	.72	.74	.76	.77	.79	.81
4.00	DISCHG	.82	.84	.87	.89	.92	.94	.98	1.03	1.11	1.24
5.00	DISCHG	1.44	1.80	2.49	3.69	5.77	9.37	26.73	96.12	212.02	364.41
6.00	DISCHG	509.06	639.95	783.95	868.49	907.40	915.73	904.03	878.73	844.34	805.52
7.00	DISCHG	766.05	728.28	693.03	660.77	632.08	607.16	590.14	576.83	564.75	553.94
8.00	DISCHG	544.39	535.84	527.69	519.48	508.12	498.22	489.59	482.03	475.38	469.47
9.00	DISCHG	464.17	459.31	454.73	450.25	445.73	441.14	436.53	432.02	427.70	423.65
10.00	DISCHG	419.92	416.51	413.10	409.47	405.65	401.68	397.65	393.60	389.58	385.61
11.00	DISCHG	381.70	377.89	374.20	370.65	367.23	363.92	360.72	357.64	354.69	351.83
12.00	DISCHG	349.04	346.33	343.70	341.16	338.05	334.70	331.78	329.16	326.76	324.50
13.00	DISCHG	322.30	320.13	317.92	315.63	313.30	310.75	307.81	304.56	301.13	297.63
14.00	DISCHG	294.10	290.61	287.16	283.76	280.47	277.29	274.24	271.30	268.48	265.78
15.00	DISCHG	263.20	260.70	257.96	254.67	250.90	246.89	242.80	238.65	234.43	230.59
16.00	DISCHG	227.09	223.91	221.02	218.40	216.04	213.92	212.01	210.30	208.76	207.39
17.00	DISCHG	206.16	205.06	204.08	203.21	202.44	201.75	201.14	200.61	200.14	199.73
18.00	DISCHG	199.37	199.06	198.79	198.56	198.37	198.21	198.07	197.96	197.87	197.81
19.00	DISCHG	197.76	197.73	197.71	197.70	197.71	197.73	197.75	197.79	197.83	197.88
20.00	DISCHG	197.93	197.88	197.49	196.72	195.75	194.65	193.45	192.18	190.87	189.53
21.00	DISCHG	188.17	186.85	185.63	184.55	183.56	182.65	181.82	181.11	180.51	179.98
22.00	DISCHG	179.48	179.02	178.64	178.32	178.03	177.75	177.48	177.26	177.09	176.94
23.00	DISCHG	176.77	176.60	176.47	176.39	176.31	176.21	176.10	176.03	175.98	175.92
24.00	DISCHG	175.83	175.62	175.06	174.13	172.98	171.66	170.16	168.47	166.64	164.74
25.00	DISCHG	162.87	161.08	159.43	157.94	156.62	155.47	154.49	153.65	152.95	152.35
26.00	DISCHG	151.85	151.43	151.07	150.77	150.51	150.28	150.08	149.91	149.76	149.62
27.00	DISCHG	149.49	149.38	149.27	149.16	149.06	148.97	148.87	148.78	148.68	148.59
28.00	DISCHG	148.50	148.41	148.32	148.22	148.13	148.03	147.93	147.83	147.73	147.63
29.00	DISCHG	147.53	147.42	147.31	147.19	147.07	146.95	146.83	146.70	146.17	143.14

RUNOFF VOLUME ABOVE BASEFLOW = 2.42 WATERSHED INCHES, 6872.26 CFS-HRS, 567.92 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 12 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 12 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 143.14 CFS, 15.63 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 11

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.96	104.24	(RUNOFF)
7.95	3.57	(RUNOFF)

*** WARNING REACH 10 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 10

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.97	261.57	(RUNOFF)
7.95	9.48	(RUNOFF)
9.90	4.66	(RUNOFF)
19.85	2.36	(RUNOFF)
23.76	1.23	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
5.98	354.48	5797.65
7.95	13.05	5793.73
9.90	6.45	5793.56
19.85	3.27	5793.48
23.78	1.68	5793.44

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.46	950.36	5799.24
19.96	201.23	5796.60

OPERATION RUNOFF CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.05	250.51	(RUNOFF)
7.95	10.64	(RUNOFF)
9.95	5.35	(RUNOFF)
19.95	2.74	(RUNOFF)
23.82	1.39	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.09	1162.85	5799.90
19.96	203.97	5796.64
23.73	179.05	5796.30

*** WARNING REACH 6 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 6 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 143.14 CFS, 12.31 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.04	162.20	(RUNOFF)
7.95	7.53	(RUNOFF)
19.95	2.01	(RUNOFF)
23.79	1.02	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.08	1322.69	5773.55
19.96	205.97	5771.32
23.76	180.09	5771.25

OPERATION RUNOFF CROSS SECTION 8

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.06	161.98	(RUNOFF)
7.95	7.60	(RUNOFF)
19.87	2.01	(RUNOFF)
23.81	1.03	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	1483.71	5773.78
19.96	207.99	5771.33
23.77	181.12	5771.26

OPERATION RUNOFF CROSS SECTION 9

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.03	116.07	(RUNOFF)
7.95	5.05	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 8

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	1598.98	(NULL)
19.95	209.32	(NULL)
23.77	181.79	(NULL)

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.88	884.76	5778.06

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 4.84 SQ.MI.

2.00	DISCHG	.00	.00	.01	.02	.05	.10	.15	.22	.28	.35
3.00	DISCHG	.42	.48	.53	.58	.62	.65	.68	.70	.73	.75
4.00	DISCHG	.77	.79	.81	.83	.85	.88	.92	.98	1.06	1.16
5.00	DISCHG	1.32	1.58	2.08	2.99	4.60	7.45	22.01	93.55	187.67	331.52
6.00	DISCHG	468.15	608.44	707.10	769.17	809.20	838.75	860.98	875.80	883.31	884.61
7.00	DISCHG	880.84	872.68	860.47	844.94	827.22	808.27	789.02	770.22	752.13	734.81
8.00	DISCHG	718.32	702.48	686.80	671.15	655.73	640.69	626.24	612.51	599.54	586.99
9.00	DISCHG	574.12	562.27	551.36	541.28	531.94	523.22	515.05	507.35	500.08	493.21
10.00	DISCHG	486.74	480.59	474.60	468.70	462.96	457.39	451.99	446.78	441.73	436.82
11.00	DISCHG	432.02	427.34	422.79	418.38	414.09	409.90	405.83	401.89	398.09	394.41
12.00	DISCHG	390.82	387.33	383.97	380.72	377.52	374.31	371.10	367.96	364.91	361.96
13.00	DISCHG	359.09	356.28	353.47	350.66	347.86	345.07	342.27	339.44	336.56	333.60
14.00	DISCHG	330.55	327.42	324.20	320.92	316.69	312.28	308.10	304.13	300.36	296.78
15.00	DISCHG	293.36	290.07	286.78	283.41	279.94	276.37	272.70	268.94	265.10	261.23
16.00	DISCHG	257.40	253.65	250.04	246.58	243.29	240.20	237.30	234.60	232.09	229.78
17.00	DISCHG	227.65	225.69	223.90	222.27	220.78	219.43	218.21	217.11	216.11	215.22
18.00	DISCHG	214.42	213.70	213.06	212.50	211.99	211.55	211.16	210.82	210.52	210.27
19.00	DISCHG	210.05	209.87	209.72	209.60	209.50	209.41	209.35	209.30	209.27	209.24
20.00	DISCHG	209.23	209.15	208.79	208.09	207.19	206.17	205.10	204.00	202.89	201.73
21.00	DISCHG	200.53	199.29	198.06	196.86	195.69	194.53	193.41	192.36	191.40	190.50
22.00	DISCHG	189.65	188.84	188.12	187.47	186.88	186.32	185.80	185.33	184.94	184.57
23.00	DISCHG	184.23	183.90	183.61	183.37	183.16	182.95	182.74	182.57	182.44	182.31
24.00	DISCHG	182.18	181.94	181.42	180.56	179.50	178.35	177.13	175.84	174.47	173.01
25.00	DISCHG	171.49	169.91	168.31	166.71	165.15	163.64	162.20	160.85	159.60	158.45
26.00	DISCHG	157.40	156.44	155.58	154.81	154.11	153.50	152.95	152.46	152.02	151.64
27.00	DISCHG	151.29	150.98	150.71	150.46	150.24	150.03	149.85	149.68	149.52	149.37
28.00	DISCHG	149.24	149.11	148.98	148.87	148.75	148.64	148.53	148.42	148.32	148.21
29.00	DISCHG	148.11	148.00	147.90	147.79	147.68	147.57	147.46	147.34	147.19	146.77

RUNOFF VOLUME ABOVE BASEFLOW = 2.44 WATERSHED INCHES, 7612.77 CFS-HRS, 629.12 ACRE-FEET; BASEFLOW = .00 CFS

*** WARNING REACH 4 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 4 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 146.77 CFS, 16.59 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.03	178.53	(RUNOFF)
7.95	7.95	(RUNOFF)
9.95	4.02	(RUNOFF)
19.95	2.09	(RUNOFF)
23.79	1.07	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.86	896.93	5730.27

OPERATION RUNOFF CROSS SECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.02	169.83	(RUNOFF)
7.95	7.70	(RUNOFF)
19.88	2.02	(RUNOFF)
23.79	1.05	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.12	935.96	5730.36
6.85	908.56	5730.30

*** WARNING REACH 2 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 2 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 146.77 CFS, 15.74 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.05	299.85	(RUNOFF)
7.95	14.00	(RUNOFF)
9.94	7.07	(RUNOFF)
19.92	3.69	(RUNOFF)
23.80	1.90	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.09	1223.14	5731.10
6.64	933.09	5727.52

*** WARNING REACH 2 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

*** WARNING - REACH 2 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 146.77 CFS, 12.01 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.02	85.91	(RUNOFF)
7.95	3.90	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.08	1304.27	5727.61
6.62	941.41	5720.52

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 5.21 SQ.MI.

2.00	DISCHG	.00	.00	.01	.02	.05	.10	.15	.22	.28	.35
3.00	DISCHG	.42	.48	.53	.58	.62	.65	.68	.70	.73	.75
4.00	DISCHG	.77	.79	.81	.83	.85	.88	.92	.98	1.06	1.16
5.00	DISCHG	1.32	1.58	2.08	2.99	4.60	7.45	36.49	228.73	542.31	894.04
6.00	DISCHG	1190.18	1300.65	1094.42	962.71	931.45	934.26	941.16	938.63	936.76	933.09
7.00	DISCHG	930.32	919.10	899.88	880.20	861.00	841.54	822.14	803.32	785.26	768.00
8.00	DISCHG	751.54	732.93	710.21	690.33	673.35	657.74	643.09	629.29	616.30	603.77
9.00	DISCHG	590.91	579.08	568.18	558.11	548.78	540.08	531.92	524.23	516.97	510.12
10.00	DISCHG	503.65	496.82	489.12	482.18	475.95	470.12	464.68	459.58	454.60	449.61
11.00	DISCHG	444.70	440.03	435.62	431.28	426.91	422.61	418.56	414.75	411.03	407.26
12.00	DISCHG	403.56	400.09	396.86	393.69	390.41	387.09	383.89	380.88	377.91	374.88
13.00	DISCHG	371.90	368.81	365.41	362.23	359.18	356.22	353.41	350.71	347.89	344.85
14.00	DISCHG	341.69	338.40	334.87	331.41	327.12	322.69	318.50	314.53	310.77	307.18
15.00	DISCHG	303.77	300.19	296.17	292.36	288.73	285.09	281.40	277.64	273.80	269.93
16.00	DISCHG	266.10	262.36	258.75	255.29	252.01	248.92	246.02	243.32	240.82	238.51

17.00	DISCHG	236.38	234.42	232.64	231.01	229.52	228.18	226.96	225.86	224.87	223.98
18.00	DISCHG	223.18	222.46	221.83	221.26	220.76	220.32	219.94	219.60	219.30	219.05
19.00	DISCHG	218.83	218.66	218.51	218.39	218.29	218.21	218.15	218.10	218.07	218.05
20.00	DISCHG	218.04	217.24	215.08	213.29	211.87	210.58	209.45	208.46	207.41	206.17
21.00	DISCHG	204.84	203.61	202.51	201.39	200.12	198.85	197.74	196.82	195.93	194.94
22.00	DISCHG	193.97	193.18	192.58	192.00	191.33	190.65	190.13	189.80	189.47	189.02
23.00	DISCHG	188.55	188.23	188.08	187.91	187.61	187.28	187.09	187.04	186.98	186.77
24.00	DISCHG	186.50	185.50	183.15	181.20	179.74	178.44	177.16	175.85	174.47	173.01
25.00	DISCHG	171.49	169.91	168.31	166.71	165.15	163.64	162.20	160.85	159.60	158.45
26.00	DISCHG	157.40	156.44	155.58	154.81	154.11	153.50	152.95	152.46	152.02	151.64
27.00	DISCHG	151.29	150.98	150.71	150.46	150.24	150.03	149.85	149.68	149.52	149.37
28.00	DISCHG	149.24	149.11	148.98	148.87	148.75	148.64	148.53	148.42	148.32	148.21
29.00	DISCHG	148.11	148.00	147.90	147.79	147.68	147.57	147.46	147.34	147.19	146.77

RUNOFF VOLUME ABOVE BASEFLOW = 2.43 WATERSHED INCHES, 8166.93 CFS-HRS, 674.91 ACRE-FEET; BASEFLOW = .00 CFS

EXECUTIVE CONTROL OPERATION ENDCMP COMPUTATIONS COMPLETED FOR PASS 1 RECORD ID

EXECUTIVE CONTROL OPERATION ENDJOB RECORD ID

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 60	RUNOFF	.08	7	2	.10	.0	4.50	24.00	3.20	---	6.03	221.81	2640.6
XSECTION 58	RUNOFF	.06	7	2	.10	.0	4.50	24.00	3.20	---	6.00	173.03	2746.5
XSECTION 56	REACH	.06	7	2	.10	.0	4.50	24.00	3.19	5930.98	6.12	166.55	2643.7
XSECTION 56	RUNOFF	.15	7	2	.10	.0	4.50	24.00	3.20	---	5.99	415.06	2804.4
XSECTION 56	ADDHYD	.21	7	2	.10	.0	4.50	24.00	3.20	5932.06	6.02	557.72	2643.2
XSECTION 56	ADDHYD	.29	7	2	.10	.0	4.50	24.00	3.20	5932.67	6.02	779.44	2642.2
STRUCTURE 30	RESVOR	.29	7	2	.10	.0	4.50	24.00	3.19	5930.72	6.32	240.29	814.5
XSECTION 54	REACH	.29	7	2	.10	.0	4.50	24.00	3.19	5881.01	6.47	236.41	801.4
XSECTION 54	RUNOFF	.12	7	2	.10	.0	4.50	24.00	2.42	---	6.04	238.45	2038.1
XSECTION 54	ADDHYD	.41	7	2	.10	.0	4.50	24.00	2.97	5881.36	6.08	394.66	957.9
XSECTION 44	REACH	2.47	7	2	.10	.0	4.50	24.00	2.05	5880.94	24.00*	150.03*	60.8
XSECTION 44	RUNOFF	.02	7	2	.10	.0	4.50	24.00	3.54	---	5.96	67.54	3216.1
XSECTION 44	ADDHYD	2.49	7	2	.10	.0	4.50	24.00	2.06	5880.94	23.95	150.33	60.4
XSECTION 54	ADDHYD	2.90	7	2	.10	.0	4.50	24.00	2.19	5881.59	6.08	493.51	170.2
XSECTION 39	REACH	2.90	7	2	.10	.0	4.50	24.00	2.19	5852.78	6.44	388.32	133.9
XSECTION 38	RUNOFF	.09	7	2	.10	.0	4.50	24.00	3.40	---	5.97	274.18	3115.7
XSECTION 36	REACH	.09	7	2	.10	.0	4.50	24.00	3.40	5859.24	5.97	274.18	3115.7
XSECTION 39	REACH	.09	7	2	.10	.0	4.50	24.00	3.39	5852.30	6.08	261.99	2977.2
XSECTION 36	RUNOFF	.10	7	2	.10	.0	4.50	24.00	3.22	---	6.12	222.14	2243.9
XSECTION 36	ADDHYD	.19	7	2	.10	.0	4.50	24.00	3.30	5859.76	6.09	482.32	2579.2
XSECTION 39	ADDHYD	3.09	7	2	.10	.0	4.50	24.00	2.26	5853.85	6.15	793.43	257.1
XSECTION 42	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.30	---	6.04	165.30	1967.9
XSECTION 40	REACH	.08	7	2	.10	.0	4.50	24.00	2.29	5863.03	6.14	165.28	1967.6
XSECTION 39	REACH	.08	7	2	.10	.0	4.50	24.00	2.30	5851.86	6.28	144.35	1718.4
XSECTION 40	RUNOFF	.14	7	2	.10	.0	4.50	24.00	2.01	---	6.13	195.54	1386.8
XSECTION 40	ADDHYD	.22	7	2	.10	.0	4.50	24.00	2.12	5863.32	6.20	309.75	1376.7
XSECTION 39	ADDHYD	3.31	7	2	.10	.0	4.50	24.00	2.25	5854.44	6.16	1098.95	331.9
XSECTION 39	RUNOFF	.04	7	2	.10	.0	4.50	24.00	2.49	---	5.98	101.49	2360.2
XSECTION 39	ADDHYD	3.35	7	2	.10	.0	4.50	24.00	2.25	5854.51	6.14	1150.40	343.0
XSECTION 100	DIVERT	.67	7	2	.10	.0	4.50	24.00	4.66	5858.28	6.14	184.02	274.3
XSECTION 101	DIVERT	2.68	7	2	.10	.0	4.50	24.00	1.65	5858.28	6.14	966.38	360.2
XSECTION 39	REACH	.67	7	2	.10	.0	4.50	24.00	4.64	5851.98	6.30	176.98	263.8

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 30	RUNOFF	.14	7	2	.10	.0	4.50	24.00	3.40	---	6.01	392.15	2821.2
XSECTION 28	REACH	.14	7	2	.10	.0	4.50	24.00	3.40	5925.46	6.01	392.15	2821.2
XSECTION 28	RUNOFF	.11	7	2	.10	.0	4.50	24.00	3.40	---	5.99	313.43	2902.1
XSECTION 28	ADDHYD	.25	7	2	.10	.0	4.50	24.00	3.40	5925.99	6.00	705.05	2854.5
STRUCTURE 40	RESVOR	.25	7	2	.10	.0	4.50	24.00	3.39	5933.35	6.27	251.61	1018.7
XSECTION 27	REACH	.25	7	2	.10	.0	4.50	24.00	3.39	5873.08	6.27	251.61	1018.7
XSECTION 27	RUNOFF	.04	7	2	.10	.0	4.50	24.00	3.61	---	5.98	109.87	3139.2
XSECTION 27	ADDHYD	.28	7	2	.10	.0	4.50	24.00	3.42	5873.23	6.10	312.56	1108.4
XSECTION 26	RUNOFF	.11	7	2	.10	.0	4.50	24.00	3.61	---	5.98	338.81	3108.4
XSECTION 27	ADDHYD	.39	7	2	.10	.0	4.50	24.00	3.47	5873.91	6.02	630.45	1612.4
XSECTION 26	REACH	.39	7	2	.10	.0	4.50	24.00	3.47	5869.07	6.02	630.45	1612.4
XSECTION 39	ADDHYD	3.07	7	2	.10	.0	4.50	24.00	1.88	5855.06	6.09	1542.08	501.6
STRUCTURE 29	RESVOR	3.07	7	2	.10	.0	4.50	24.00	1.88	5857.79	7.97	316.91	103.1
XSECTION 32	ADDHYD	3.74	7	2	.10	.0	4.50	24.00	2.37	5817.33	6.42	454.69	121.4
XSECTION 32	REACH	3.74	7	2	.10	.0	4.50	24.00	2.37	5817.31	6.57	450.24	120.2
XSECTION 25	RUNOFF	.05	7	2	.10	.0	4.50	24.00	3.22	---	5.97	149.05	2980.9
XSECTION 25	ADDHYD	3.79	7	2	.10	.0	4.50	24.00	2.38	5831.61	6.55	463.29	122.1
XSECTION 32	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.77	---	6.09	172.61	2079.6
XSECTION 24	ADDHYD	3.88	7	2	.10	.0	4.50	24.00	2.39	5832.15	6.11	569.70	146.9
XSECTION 24	REACH	3.88	7	2	.10	.0	4.50	24.00	2.38	5832.12	6.23	556.09	143.4
XSECTION 24	RUNOFF	.14	7	2	.10	.0	4.50	24.00	3.29	---	5.99	407.03	2846.4
XSECTION 24	ADDHYD	4.02	7	2	.10	.0	4.50	24.00	2.41	5832.87	6.09	838.86	208.6
XSECTION 16	RUNOFF	.10	7	2	.10	.0	4.50	24.00	2.11	---	6.10	152.77	1558.8
XSECTION 16	REACH	.10	7	2	.10	.0	4.50	24.00	2.11	5851.86	6.43	97.65	996.4
XSECTION 16	RUNOFF	.06	7	2	.10	.0	4.50	24.00	3.39	---	5.99	190.03	2923.6
XSECTION 16	ADDHYD	.16	7	2	.10	.0	4.50	24.00	2.62	5852.79	6.03	204.68	1255.7
XSECTION 34	RUNOFF	.07	7	2	.10	.0	4.50	24.00	2.05	---	6.07	111.75	1667.9
XSECTION 33	REACH	.07	7	2	.10	.0	4.50	24.00	2.05	5848.61	6.19	105.14	1569.3
XSECTION 33	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.91	---	6.01	203.31	2510.0
XSECTION 33	ADDHYD	.15	7	2	.10	.0	4.50	24.00	2.52	5849.00	6.06	279.01	1885.2
XSECTION 33	ADDHYD	.31	7	2	.10	.0	4.50	24.00	2.57	5849.46	6.05	483.70	1555.3
XSECTION 14	REACH	.31	7	2	.10	.0	4.50	24.00	2.57	5853.18	6.33	379.44	1220.1
XSECTION 14	RUNOFF	.07	7	2	.10	.0	4.50	24.00	2.70	---	6.06	151.70	2230.9
XSECTION 14	ADDHYD	.38	7	2	.10	.0	4.50	24.00	2.59	5853.63	6.27	432.57	1141.3

XSECTION	24	ADDHYD	4.40	7	2	.10	.0	4.50	24.00	2.43	5833.61	6.12	1222.22	277.8
STRUCTURE	2	RESVOR	4.40	7	2	.10	.0	4.50	24.00	2.42	5824.94	6.49	915.80	208.1

SUMMARY TABLE 1 - SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL INSTRUCTIONS IN THE ORDER PERFORMED
(A STAR(*) AFTER THE PEAK DISCHARGE TIME AND RATE (CFS) VALUES INDICATES A FLAT TOP HYDROGRAPH
A QUESTION MARK(?) INDICATES A HYDROGRAPH WITH PEAK AS LAST POINT.)

SECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RAIN TABLE #	ANTEC MOIST COND	MAIN TIME INCREM (HR)	PRECIPITATION BEGIN (HR)	PRECIPITATION AMOUNT (IN)	PRECIPITATION DURATION (HR)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE ELEVATION (FT)	PEAK DISCHARGE TIME (HR)	PEAK DISCHARGE RATE (CFS)	PEAK DISCHARGE RATE (CSM)
ALTERNATE 1 STORM 1													
XSECTION 12	REACH	4.40	7	2	.10	.0	4.50	24.00	2.42	5799.15	6.49	915.80	208.1
XSECTION 11	RUNOFF	.03	7	2	.10	.0	4.50	24.00	3.60	---	5.96	104.24	3257.6
XSECTION 10	REACH	.03	7	2	.10	.0	4.50	24.00	3.59	5806.41	6.07	102.79	3212.2
XSECTION 10	RUNOFF	.09	7	2	.10	.0	4.50	24.00	3.30	---	5.97	261.57	3041.5
XSECTION 12	ADDHYD	.12	7	2	.10	.0	4.50	24.00	3.38	5797.65	5.98	354.48	3004.0
XSECTION 12	ADDHYD	4.52	7	2	.10	.0	4.50	24.00	2.45	5799.24	6.46	950.36	210.3
XSECTION 12	RUNOFF	.10	7	2	.10	.0	4.50	24.00	3.01	---	6.05	250.51	2456.0
XSECTION 12	ADDHYD	4.62	7	2	.10	.0	4.50	24.00	2.46	5799.90	6.09	1162.85	251.7
XSECTION 6	REACH	4.62	7	2	.10	.0	4.50	24.00	2.46	5773.33	6.09	1162.85	251.7
XSECTION 6	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.26	---	6.04	162.20	1931.0
XSECTION 6	ADDHYD	4.70	7	2	.10	.0	4.50	24.00	2.45	5773.55	6.08	1322.69	281.2
XSECTION 8	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.31	---	6.06	161.98	1928.3
XSECTION 6	ADDHYD	4.79	7	2	.10	.0	4.50	24.00	2.45	5773.78	6.07	1483.71	309.9
XSECTION 9	RUNOFF	.05	7	2	.10	.0	4.50	24.00	2.61	---	6.03	116.07	2232.2
XSECTION 8	ADDHYD	4.84	7	2	.10	.0	4.50	24.00	2.45	---	6.07	1598.98	330.4
STRUCTURE 1	RESVOR	4.84	7	2	.10	.0	4.50	24.00	2.44	5778.06	6.88	884.76	182.8
XSECTION 4	REACH	4.84	7	2	.10	.0	4.50	24.00	2.44	5730.25	6.88	884.76	182.8
XSECTION 4	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.48	---	6.03	178.53	2125.3
XSECTION 4	ADDHYD	4.92	7	2	.10	.0	4.50	24.00	2.44	5730.27	6.86	896.93	182.2
XSECTION 3	RUNOFF	.09	7	2	.10	.0	4.50	24.00	2.30	---	6.02	169.83	1998.0
XSECTION 4	ADDHYD	5.01	7	2	.10	.0	4.50	24.00	2.44	5730.36	6.12	935.96	186.9
XSECTION 2	REACH	5.01	7	2	.10	.0	4.50	24.00	2.44	5727.54	6.12	935.96	186.9
XSECTION 2	RUNOFF	.16	7	2	.10	.0	4.50	24.00	2.30	---	6.05	299.85	1934.5
XSECTION 2	ADDHYD	5.16	7	2	.10	.0	4.50	24.00	2.43	5731.10	6.09	1223.14	236.9
XSECTION 2	REACH	5.16	7	2	.10	.0	4.50	24.00	2.43	5731.10	6.09	1223.14	236.9
XSECTION 1	RUNOFF	.04	7	2	.10	.0	4.50	24.00	2.30	---	6.02	85.91	1998.0
XSECTION 1	ADDHYD	5.21	7	2	.10	.0	4.50	24.00	2.43	5727.61	6.08	1304.27	250.5

SUMMARY TABLE 2 - SELECTED MODIFIED ATT-KIN REACH ROUTINGS IN ORDER OF STANDARD EXECUTIVE CONTROL INSTRUCTIONS
(A STAR(*) AFTER VOLUME ABOVE BASE(IN) INDICATES A HYDROGRAPH TRUNCATED AT A VALUE EXCEEDING BASE + 10% OF PEAK
A QUESTION MARK(?) AFTER COEFF.(C) INDICATES PARAMETERS OUTSIDE ACCEPTABLE LIMITS, SEE PREVIOUS WARNINGS)

		HYDROGRAPH INFORMATION							ROUTING PARAMETERS										PEAK TRAVEL TIME	
		INFLOW		OUTFLOW		OUTFLOW+ INTERV.AREA						Q AND A EQUATION								
XSEC ID	REACH LENGTH (FT)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	PEAK (CFS)	TIME (HR)	BASE-FLOW (CFS)	VOLUME ABOVE BASE (IN)	MAIN TIME INCR (HR)	ITER-ATION #	COEFF (X)	POWER (M)	LENGTH FACTOR (K*)	PEAK RATIO Q/I (Q*)	S/Q @PEAK (K) (SEC)	ATT-KIN COEFF (C)	STOR-AGE (HR)	KINE-MATIC (HR)
ALTERNATE 1 STORM 1																				
56	2700	173	6.0	166	6.1	556	6.0	0	3.20	.10	1	1.14	1.51	.063	.958	287	.77?	.10	.06
54	2380	240	6.3	236	6.5	393	6.1	0	3.19	.10	1	.862	1.48	.012	.984	365	.74?	.20	.09
44	700	150	24.0	150	24.0	150	23.8	0	2.05*	.10	0	1.12	1.55	.000	1.000	71	1.00?	.00	.00
39	3400	491	6.1	388	6.4	---	---	0	2.19*	.10	1	.221	1.49	.009	.790	832	.36	.30	.24
36	1080	269	6.0	269	6.0	---	---	0	3.40	.10	0	2.19	1.38	.016	1.000	93	1.00?	.00	.00
39	1050	269	6.0	260	6.1	778	6.2	0	3.40	.10	1	.200	1.51	.075	.969	308	.74?	.10	.09
40	3120	162	6.0	162	6.1	---	---	0	2.30	.10	1	1.92	1.63	.026	1.000	180	1.00?	.10	.05
39	1450	162	6.1	144	6.3	1087	6.2	0	2.29	.10	1	.187	1.53	.138	.887	494	.53	.20	.14
39	1200	183	6.1	177	6.3	---	---	0	4.66*	.10	1	.190	1.52	.002	.969	395	.63	.20	.11
28	1800	392	6.0	392	6.0	705	6.0	0	3.40	.10	0	1.34	1.42	.032	1.000	176	1.00?	.00	.00
27	1400	251	6.3	251	6.3	313	6.1	0	3.39	.10	0	1.47	1.48	.004	1.000	122	1.00?	.00	.00
26	1000	629	6.0	629	6.0	---	---	0	3.47	.10	0	1.23	1.38	.008	1.000	105	1.00?	.00	.00
32	1250	455	6.4	450	6.6	---	---	0	2.37*	.10	1	.218	1.48	.001	.990	329	.71?	.20	.09
24	1250	569	6.1	552	6.2	838	6.1	0	2.39*	.10	1	.257	1.47	.001	.969	279	.78?	.10	.08
16	3100	153	6.1	97	6.4	203	6.0	0	2.11	.10	1	.391	1.37	.389	.634	1153	.27	.20	.34
33	2700	110	6.1	105	6.2	274	6.1	0	2.05	.10	1	.956	1.59	.058	.955	306	.74?	.10	.09
14	2800	469	6.1	376	6.3	431	6.3	0	2.57	.10	1	.404	1.36	.166	.801	779	.38	.10	.22
12	1350	916	6.5	916	6.5	---	---	0	2.42*	.10	0	3.83	1.38	.000	1.000	57	1.00?	.00	.00
10	2300	102	6.0	101	6.1	---	---	0	3.60	.10	1	2.94	1.35	.055	.993	228	.88?	.10	.06
6	1400	1162	6.1	1162	6.1	1317	6.1	0	2.46*	.10	0	.361	1.53	.001	1.000	155	1.00?	.00	.00
4	2100	885	6.9	885	6.9	897	6.9	0	2.44*	.10	0	3.74	1.42	.000	1.000	80	1.00?	.00	.00
2	500	932	6.1	932	6.1	1222	6.1	0	2.44*	.10	0	5.06	1.30	.000	1.000	23	1.00?	.00	.00
2	1120	1222	6.1	1222	6.1	---	---	0	2.43*	.10	0	6.24	1.21	.001	1.000	59	1.00?	.00	.00

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
STRUCTURE 40	.25	
ALTERNATE 1		251.61
STRUCTURE 30	.29	
ALTERNATE 1		240.29
STRUCTURE 29	3.07	
ALTERNATE 1		316.91
STRUCTURE 2	4.40	
ALTERNATE 1		915.80
STRUCTURE 1	4.84	
ALTERNATE 1		884.76
XSECTION 1	5.21	
ALTERNATE 1		1304.27
XSECTION 2	5.16	
ALTERNATE 1		1223.14
XSECTION 3	.09	
ALTERNATE 1		169.63
XSECTION 4	5.01	
ALTERNATE 1		935.96
XSECTION 6	4.79	
ALTERNATE 1		1483.71
XSECTION 8	4.84	
ALTERNATE 1		1598.98
XSECTION 9	.05	
ALTERNATE 1		116.07
XSECTION 10	.09	
ALTERNATE 1		261.57
XSECTION 11	.03	
ALTERNATE 1		104.24

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 12	4.62	
ALTERNATE 1		1162.85
XSECTION 14	.38	
ALTERNATE 1		432.57
XSECTION 16	.16	
ALTERNATE 1		204.68
XSECTION 18	.10	
ALTERNATE 1		152.77
XSECTION 24	4.40	
ALTERNATE 1		1222.22
XSECTION 25	3.79	
ALTERNATE 1		463.29
XSECTION 26	.39	
ALTERNATE 1		630.45
XSECTION 27	.39	
ALTERNATE 1		630.45
XSECTION 28	.25	
ALTERNATE 1		705.05
XSECTION 30	.14	
ALTERNATE 1		392.15
XSECTION 32	.08	
ALTERNATE 1		172.61
XSECTION 33	.31	
ALTERNATE 1		483.70
XSECTION 34	.07	
ALTERNATE 1		111.75
XSECTION 36	.19	
ALTERNATE 1		482.32

SUMMARY TABLE 3 - DISCHARGE (CFS) AT XSECTIONS AND STRUCTURES FOR ALL STORMS AND ALTERNATES

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 38	.09	
ALTERNATE 1		274.18
XSECTION 39	3.07	
ALTERNATE 1		1542.08
XSECTION 40	.22	
ALTERNATE 1		309.75
XSECTION 42	.08	
ALTERNATE 1		165.30
XSECTION 44	2.49	
ALTERNATE 1		150.33
XSECTION 54	2.90	
ALTERNATE 1		493.51
XSECTION 56	.29	
ALTERNATE 1		779.44
XSECTION 58	.06	
ALTERNATE 1		173.03
XSECTION 60	.08	
ALTERNATE 1		221.81
XSECTION 100	.67	
ALTERNATE 1		184.02
XSECTION 101	2.68	
ALTERNATE 1		966.38

MAIN - UNEXPECTED RECORD FOUND(IGNORED) >>> <<<

H. BASIN DISCHARGE MAP