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 62	RUNOFF	.23	7	2	.10	.0	3.00	24.00	.33	---	6.41	20.89	91.6
XSECTION 60	REACH	.23	7	2	.10	.0	3.00	24.00	.33	5930.37	6.53	20.61	90.4
XSECTION 60	RUNOFF	.08	7	2	.10	.0	3.00	24.00	.33	---	6.31	9.04	107.6
XSECTION 60	ADDHYD	.31	7	2	.10	.0	3.00	24.00	.33	5930.50	6.47	27.56	88.3
XSECTION 58	RUNOFF	.06	7	2	.10	.0	3.00	24.00	.33	---	6.37	6.16	97.8
XSECTION 56	REACH	.06	7	2	.10	.0	3.00	24.00	.33	5930.10	6.74	4.86	77.2
XSECTION 56	RUNOFF	.15	7	2	.10	.0	3.00	24.00	.39	---	6.28	21.31	144.0
XSECTION 56	ADDHYD	.21	7	2	.10	.0	3.00	24.00	.37	5930.29	6.31	22.54	106.8
XSECTION 56	ADDHYD	.52	7	2	.10	.0	3.00	24.00	.35	5930.49	6.41	48.28	92.3
STRUCTURE 3	RESVOR	.52	7	2	.10	.0	3.00	24.00	.35	5933.52	6.56	43.78	83.7
XSECTION 54	REACH	.52	7	2	.10	.0	3.00	24.00	.35	5880.42	6.77	41.85	80.0
XSECTION 54	RUNOFF	.12	7	2	.10	.0	3.00	24.00	.60	---	6.28	30.11	257.3
XSECTION 54	ADDHYD	.64	7	2	.10	.0	3.00	24.00	.39	5880.52	6.54	56.02	87.5
XSECTION 52	RUNOFF	.08	7	2	.10	.0	3.00	24.00	.34	---	6.41	7.18	94.5
XSECTION 50	REACH	.08	7	2	.10	.0	3.00	24.00	.34	5898.12	6.68	5.77	75.9
XSECTION 50	RUNOFF	.21	7	2	.10	.0	3.00	24.00	.37	---	6.31	26.69	128.9
XSECTION 50	ADDHYD	.28	7	2	.10	.0	3.00	24.00	.36	5898.35	6.33	29.59	104.5
XSECTION 48	RUNOFF	.09	7	2	.10	.0	3.00	24.00	.68	---	6.33	23.47	276.2
XSECTION 46	REACH	.09	7	2	.10	.0	3.00	24.00	.68	5898.20	6.54	20.35	239.4
XSECTION 46	RUNOFF	.09	7	2	.10	.0	3.00	24.00	.45	---	6.23	17.98	195.4
XSECTION 46	ADDHYD	.18	7	2	.10	.0	3.00	24.00	.56	5898.32	6.38	31.69	179.0
XSECTION 50	ADDHYD	.46	7	2	.10	.0	3.00	24.00	.44	5898.54	6.35	61.27	133.2
STRUCTURE 5	RESVOR	.46	7	2	.10	.0	3.00	24.00	.44	5899.51	6.36	60.73	132.0
XSECTION 44	REACH	.46	7	2	.10	.0	3.00	24.00	.44	5880.56	6.36	60.73	132.0
XSECTION 44	RUNOFF	.02	7	2	.10	.0	3.00	24.00	.33	---	6.14	3.58	170.6
XSECTION 44	ADDHYD	.48	7	2	.10	.0	3.00	24.00	.43	5880.58	6.35	62.88	130.7
XSECTION 54	ADDHYD	1.12	7	2	.10	.0	3.00	24.00	.41	5880.74	6.41	116.43	103.9
XSECTION 39	REACH	1.12	7	2	.10	.0	3.00	24.00	.41	5851.66	6.87	91.06	81.2
XSECTION 38	RUNOFF	.09	7	2	.10	.0	3.00	24.00	.34	---	6.34	9.06	102.9
XSECTION 36	REACH	.09	7	2	.10	.0	3.00	24.00	.34	5858.27	6.46	8.85	100.6
XSECTION 39	REACH	.09	7	2	.10	.0	3.00	24.00	.34	5851.00	6.84	6.79	77.1
XSECTION 36	RUNOFF	.10	7	2	.10	.0	3.00	24.00	.33	---	6.44	8.69	87.8

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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 36	ADDHYD	.19	7	2	.10	.0	3.00	24.00	.33	5858.32	6.67	12.92	69.1
XSECTION 39	ADDHYD	1.31	7	2	.10	.0	3.00	24.00	.40	5851.70	6.84	103.25	78.9
XSECTION 42	RUNOFF	.08	7	2	.10	.0	3.00	24.00	.69	---	6.32	24.19	288.0
XSECTION 40	REACH	.08	7	2	.10	.0	3.00	24.00	.69	5862.54	6.47	22.73	270.6
XSECTION 39	REACH	.08	7	2	.10	.0	3.00	24.00	.69	5851.18	6.84	17.99	214.1
XSECTION 40	RUNOFF	.14	7	2	.10	.0	3.00	24.00	.93	---	6.20	75.91	538.4
XSECTION 40	ADDHYD	.22	7	2	.10	.0	3.00	24.00	.84	5862.81	6.21	76.73	341.0
XSECTION 39	ADDHYD	1.53	7	2	.10	.0	3.00	24.00	.46	5851.83	6.74	138.71	90.5
XSECTION 39	RUNOFF	.04	7	2	.10	.0	3.00	24.00	.92	---	6.08	30.89	718.5
XSECTION 39	ADDHYD	1.58	7	2	.10	.0	3.00	24.00	.48	5851.85	6.72	142.22	90.2
XSECTION 32	REACH	1.58	7	2	.10	.0	3.00	24.00	.48	5816.15	6.89	140.18	88.9
XSECTION 30	RUNOFF	.14	7	2	.10	.0	3.00	24.00	.74	---	6.32	43.76	314.8
XSECTION 28	REACH	.14	7	2	.10	.0	3.00	24.00	.74	5924.42	6.46	41.80	300.7
XSECTION 28	RUNOFF	.11	7	2	.10	.0	3.00	24.00	.79	---	6.24	43.17	399.7
XSECTION 28	ADDHYD	.25	7	2	.10	.0	3.00	24.00	.77	5924.66	6.34	76.91	311.4
STRUCTURE 4	RESVOR	.25	7	2	.10	.0	3.00	24.00	.77	5926.60	6.55	63.64	257.7
XSECTION 27	REACH	.25	7	2	.10	.0	3.00	24.00	.76	5872.55	6.65	63.59	257.5
XSECTION 27	RUNOFF	.04	7	2	.10	.0	3.00	24.00	.33	---	6.17	5.30	151.4
XSECTION 27	ADDHYD	.28	7	2	.10	.0	3.00	24.00	.71	5872.56	6.64	65.20	231.2
XSECTION 26	RUNOFF	.11	7	2	.10	.0	3.00	24.00	.85	---	6.24	47.87	439.1
XSECTION 27	ADDHYD	.39	7	2	.10	.0	3.00	24.00	.75	5872.65	6.49	88.04	225.2
XSECTION 25	REACH	.39	7	2	.10	.0	3.00	24.00	.75	5830.65	6.49	88.04	225.2
XSECTION 25	RUNOFF	.05	7	2	.10	.0	3.00	24.00	.33	---	6.21	6.79	135.8
XSECTION 25	ADDHYD	.44	7	2	.10	.0	3.00	24.00	.70	5830.67	6.47	91.49	207.5
XSECTION 32	ADDHYD	2.02	7	2	.10	.0	3.00	24.00	.53	5816.45	6.66	219.02	108.6
XSECTION 32	RUNOFF	.08	7	2	.10	.0	3.00	24.00	.68	---	6.18	31.95	385.0
XSECTION 24	ADDHYD	2.10	7	2	.10	.0	3.00	24.00	.53	5831.24	6.56	228.44	108.8
XSECTION 24	REACH	2.10	7	2	.10	.0	3.00	24.00	.53	5831.24	6.74	227.32	108.2
XSECTION 24	RUNOFF	.14	7	2	.10	.0	3.00	24.00	.71	---	6.25	49.61	346.9
XSECTION 24	ADDHYD	2.24	7	2	.10	.0	3.00	24.00	.54	5831.30	6.54	249.39	111.2
XSECTION 22	RUNOFF	.14	7	2	.10	.0	3.00	24.00	1.15	---	6.30	79.84	550.6
XSECTION 20	REACH	.14	7	2	.10	.0	3.00	24.00	1.15	5854.29	6.41	78.90	544.1
XSECTION 20	RUNOFF	.05	7	2	.10	.0	3.00	24.00	1.40	---	6.09	48.58	1079.5
XSECTION 20	ADDHYD	.19	7	2	.10	.0	3.00	24.00	1.21	5854.46	6.29	96.13	505.9

XSECTION	18	RUNOFF	.11	7	2	.10	.0	3.00	24.00	1.04	---	6.12	79.63	730.6
XSECTION	18	ADDHYD	.30	7	2	.10	.0	3.00	24.00	1.15	---	6.16	166.37	556.4

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ALTERNATE 1 STORM 1													
XSECTION 16	REACH	.30	7	2	.10	.0	3.00	24.00	1.15	5852.05	6.49	117.79	393.9
XSECTION 16	RUNOFF	.06	7	2	.10	.0	3.00	24.00	.91	---	6.29	27.59	424.5
XSECTION 16	ADDHYD	.36	7	2	.10	.0	3.00	24.00	1.10	5852.25	6.43	141.19	387.9
XSECTION 34	RUNOFF	.06	7	2	.10	.0	3.00	24.00	.96	---	6.09	47.09	747.5
XSECTION 33	REACH	.06	7	2	.10	.0	3.00	24.00	.96	5848.32	6.22	40.61	644.5
XSECTION 33	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.15	---	6.05	78.53	969.5
XSECTION 33	ADDHYD	.14	7	2	.10	.0	3.00	24.00	1.07	5848.61	6.09	105.83	734.9
XSECTION 33	ADDHYD	.51	7	2	.10	.0	3.00	24.00	1.09	5848.81	6.25	191.56	377.1
XSECTION 33	DIVERT	.00	7	2	.10	.0	3.00	24.00	1.09	5848.40	5.90*	50.00**********	
XSECTION 0	DIVERT	.51	7	2	.10	.0	3.00	24.00	.36	---	6.25	141.56	278.7
XSECTION 14	REACH	.00	7	2	.10	.0	3.00	24.00	.36	5849.87	7.48	49.33 **********	
XSECTION 14	RUNOFF	.07	7	2	.10	.0	3.00	24.00	.49	---	6.34	12.44	182.9
XSECTION 14	ADDHYD	.07	7	2	.10	.0	3.00	24.00	5.97	5849.93	7.24	51.79	761.7
XSECTION 24	ADDHYD	2.31	7	2	.10	.0	3.00	24.00	.70	5831.44	6.54	300.97	130.2
STRUCTURE 2	RESVOR	2.31	7	2	.10	.0	3.00	24.00	.70	5817.91	6.70	297.88	128.9
XSECTION 12	REACH	2.31	7	2	.10	.0	3.00	24.00	.70	5797.50	6.70	297.88	128.9
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	2.43	7	2	.10	.0	3.00	24.00	.76	5797.55	6.62	314.63	129.5
XSECTION 12	RUNOFF	.10	7	2	.10	.0	3.00	24.00	1.67	---	6.06	140.46	1377.1
XSECTION 12	ADDHYD	2.53	7	2	.10	.0	3.00	24.00	.80	5797.79	6.08	407.18	160.9
XSECTION 6	REACH	2.53	7	2	.10	.0	3.00	24.00	.80	5771.86	6.19	403.49	159.4
XSECTION 6	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.11	---	6.06	79.25	943.4
XSECTION 6	ADDHYD	2.62	7	2	.10	.0	3.00	24.00	.81	5772.02	6.14	461.78	176.6
XSECTION 8	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.14	---	6.07	78.08	929.5
XSECTION 6	ADDHYD	2.70	7	2	.10	.0	3.00	24.00	.82	5772.21	6.13	533.24	197.6
STRUCTURE 1	RESVOR	2.70	7	2	.10	.0	3.00	24.00	.82	5774.06	6.98	328.15	121.6
XSECTION 4	REACH	2.70	7	2	.10	.0	3.00	24.00	.82	5728.80	6.98	328.15	121.6
XSECTION 4	RUNOFF	.08	7	2	.10	.0	3.00	24.00	1.26	---	6.05	91.42	1088.3
XSECTION 4	ADDHYD	2.78	7	2	.10	.0	3.00	24.00	.83	5728.82	6.97	334.80	120.3
XSECTION 3	RUNOFF	.09	7	2	.10	.0	3.00	24.00	1.13	---	6.04	81.86	963.1
XSECTION 4	ADDHYD	2.87	7	2	.10	.0	3.00	24.00	.84	5728.93	6.13	365.27	127.4

XSECTION	2	REACH	2.87	7	2	.10	.0	3.00	24.00	.84	5723.77	6.13	365.27	127.4
XSECTION	2	RUNOFF	.16	7	2	.10	.0	3.00	24.00	1.13	---	6.06	147.47	951.4

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ALTERNATE 1 STORM 1													
XSECTION 2	ADDHYD	3.02	7	2	.10	.0	3.00	24.00	.86	5724.58	6.10	506.02	167.4
XSECTION 2	REACH	3.02	7	2	.10	.0	3.00	24.00	.86	5724.58	6.10	506.02	167.4
XSECTION 1	RUNOFF	.04	7	2	.10	.0	3.00	24.00	1.13	---	6.04	41.41	963.1
XSECTION 1	ADDHYD	3.07	7	2	.10	.0	3.00	24.00	.86	5718.61	6.09	546.00	178.1

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 O/I (Q*)	S/Q @PEAK (K) (SEC)	ATT-KIN COEFF (C)	STOR-AGE (HR)	KINE-MATIC (HR)
ALTERNATE		1	STORM	1															
60	1300	21	6.4	20	6.5	27	6.5	0	.33	.10	1	2.01	1.37	.013	.982	251	.83?	.10	.07
56	2700	6	6.4	5	6.7	23	6.3	0	.33	.10	1	.990	1.58	.064	.789	883	.34	.20	.26
54	2380	44	6.6	42	6.8	56	6.5	0	.35	.10	1	.800	1.51	.022	.957	515	.52	.20	.14
50	2950	7	6.4	6	6.7	29	6.3	0	.34	.10	1	1.23	1.49	.065	.802	895	.33	.30	.26
46	2940	23	6.3	20	6.5	32	6.4	0	.68	.10	1	1.33	1.45	.068	.865	622	.45	.20	.18
44	700	60	6.4	60	6.4	62	6.3	0	.44	.10	0	1.05	1.58	.002	1.000	95	1.00?	.00	.00
39	3400	116	6.4	91	6.9	---	---	0	.41	.10	1	.180	1.54	.093	.782	1280	.25	.50	.37
36	1080	9	6.3	9	6.5	---	---	0	.34	.10	1	1.96	1.45	.011	.985	239	.86?	.20	.07
39	1050	9	6.5	7	6.8	103	6.8	0	.34	.10	1	.166	1.57	.075	.768	956	.32	.20	.28
40	3120	24	6.3	23	6.5	---	---	0	.69	.10	1	1.91	1.63	.028	.938	376	.65	.20	.11
39	1450	23	6.5	18	6.8	138	6.7	0	.69	.10	1	.166	1.57	.113	.790	937	.32	.20	.27
32	1250	142	6.7	140	6.9	---	---	0	.48	.10	1	.195	1.50	.014	.986	468	.56	.20	.13
28	1800	44	6.3	42	6.5	76	6.3	0	.74	.10	1	1.24	1.45	.029	.952	331	.70?	.20	.09
27	1400	63	6.5	63	6.6	65	6.6	0	.77	.10	1	1.40	1.50	.008	.998	186	.98?	.10	.05
25	1000	88	6.5	88	6.5	91	6.5	0	.75	.10	0	1.40	1.50	.003	1.000	119	1.00?	.00	.00
24	1250	228	6.6	227	6.7	249	6.5	0	.53	.10	1	.224	1.51	.010	.995	361	.67	.10	.10
20	2040	80	6.3	79	6.4	96	6.3	0	1.15	.10	1	2.75	1.34	.026	.987	235	.87?	.10	.07
16	3100	165	6.2	118	6.5	141	6.4	0	1.15	.10	1	.392	1.37	.210	.715	1131	.27	.30	.33
33	2700	47	6.1	40	6.2	106	6.1	0	.96	.10	1	.953	1.59	.091	.857	418	.60	.10	.12
14	2800	50	5.9	49	7.5	52	7.2	0	.00	.10	1	.388	1.37	.049	.986	1403	.23	1.60	.39
12	1350	298	6.7	298	6.7	---	---	0	.70	.10	0	6.65	1.18	.004	1.000	95	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	406	6.1	403	6.2	452	6.1	0	.80	.10	1	.299	1.57	.004	.993	215	.91?	.10	.06
4	2100	328	7.0	328	7.0	335	7.0	0	.82	.10	0	3.26	1.46	.001	1.000	102	1.00?	.00	.00
2	500	363	6.1	363	6.1	506	6.1	0	.84	.10	0	6.37	1.22	.001	1.000	31	1.00?	.00	.00
2	1120	506	6.1	506	6.1	---	---	0	.86	.10	0	5.77	1.25	.002	1.000	63	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 5	.46	
ALTERNATE 1		60.73
STRUCTURE 4	.25	
ALTERNATE 1		63.64
STRUCTURE 3	.52	
ALTERNATE 1		43.78
STRUCTURE 2	2.31	
ALTERNATE 1		297.88
STRUCTURE 1	2.70	
ALTERNATE 1		328.15
XSECTION 0	.51	
ALTERNATE 1		141.56
XSECTION 1	3.07	
ALTERNATE 1		546.00
XSECTION 2	3.02	
ALTERNATE 1		506.02
XSECTION 3	.09	
ALTERNATE 1		81.86
XSECTION 4	2.87	
ALTERNATE 1		365.27
XSECTION 6	2.70	
ALTERNATE 1		533.24
XSECTION 8	.08	
ALTERNATE 1		78.08
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	2.53	
ALTERNATE 1		407.18
XSECTION 14	.07	
ALTERNATE 1		51.79
XSECTION 16	.36	
ALTERNATE 1		141.19
XSECTION 18	.30	
ALTERNATE 1		166.37
XSECTION 20	.19	
ALTERNATE 1		96.13
XSECTION 22	.14	
ALTERNATE 1		79.84
XSECTION 24	2.31	
ALTERNATE 1		300.97
XSECTION 25	.44	
ALTERNATE 1		91.49
XSECTION 26	.11	
ALTERNATE 1		47.87
XSECTION 27	.39	
ALTERNATE 1		88.04
XSECTION 28	.25	
ALTERNATE 1		76.91
XSECTION 30	.14	
ALTERNATE 1		43.76
XSECTION 32	.08	
ALTERNATE 1		31.95
XSECTION 33	.00	
ALTERNATE 1		50.00

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

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 34	.06	
ALTERNATE 1		47.09
XSECTION 36	.19	
ALTERNATE 1		12.92
XSECTION 38	.09	
ALTERNATE 1		9.06
XSECTION 39	1.58	
ALTERNATE 1		142.22
XSECTION 40	.22	
ALTERNATE 1		76.73
XSECTION 42	.08	
ALTERNATE 1		24.19
XSECTION 44	.48	
ALTERNATE 1		62.88
XSECTION 46	.18	
ALTERNATE 1		31.69
XSECTION 48	.09	
ALTERNATE 1		23.47
XSECTION 50	.46	
ALTERNATE 1		61.27
XSECTION 52	.08	
ALTERNATE 1		7.18
XSECTION 54	1.12	
ALTERNATE 1		116.43
XSECTION 56	.52	
ALTERNATE 1		48.28
XSECTION 58	.06	
ALTERNATE 1		6.16

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 60	.31	
ALTERNATE 1		27.56
XSECTION 62	.23	
ALTERNATE 1		20.89

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      EXISTING CONDITIONS W/ AMC II        WG24EX1
 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      46 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   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                    5897.7      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
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      180.0       0.57
8                    5819.0      440.0       2.52
8                    5821.0      840.0       6.13
8                    5823.0     1000.0      11.83
8                    5825.0     1250.0      20.35
8                    5827.0     1500.0      32.38
8                    5829.0     1600.0      49.00
8                    5830.0     2200.0      59.34
9 ENDTBL
3 STRUCT      03
8                    5930.0        0.0       0.0
```

```
8                       5931.0        6.5       0.02
8                       5932.0       21.5       0.07
8                       5933.0       36.0       0.18
8                       5934.0       51.1       0.42
8                       5935.0      314.4       0.81
8                       5936.0      741.7       1.42
8                       5937.0     1285.6       2.30
9 ENDTBL
3 STRUCT      04
8                       5924.0        0.0       0.0
8                       5925.0       24.0       0.03
8                       5926.0       33.0       0.37
8                       5927.0       84.0       1.24
8                       5928.0      126.0       2.64
8                       5929.0      192.0       4.58
8                       5930.0      252.0       7.04
8                       5931.0      318.0      10.03
8                       5932.0      378.0      13.55
9 ENDTBL
3 STRUCT      05
8                       5898.0        0.0       0.0
8                       5899.5       60.0       0.05
8                       5901.5      240.0       0.31
8                       5903.5      480.0       1.31
8                       5905.5      720.0       2.26
8                       5907.5      960.0       5.87
8                       5909.5     2000.0      10.56
9 ENDTBL
6 RUNOFF 1 062       5    0.228      60.0     0.69        1
6 REACH  3 060   5   6  1300.                              1
6 RUNOFF 1 060       7    0.084      60.0     0.57        1
6 ADDHYD 4 060   6 7 3                                     1
6 RUNOFF 1 058       6    0.063      60.0     0.64        1
6 REACH  3 056   6   5  2700.
6 RUNOFF 1 056       4    0.148      61.8     0.54        1
6 ADDHYD 4 056   4 5 6                                     1
6 ADDHYD 4 056   3 6 5                                     1
6 RESVOR 2    03 5   4  5930.0                             1
6 REACH  3 054   4   6  2380.
6 RUNOFF 1 054       7    0.117      67.3     0.58        1
6 ADDHYD 4 054   6 7 4                                     1
6 RUNOFF 1 052       7    0.076      60.2     0.69        1
6 REACH  3 050   7   6  2950.
6 RUNOFF 1 050       5    0.207      61.2     0.57        1
6 ADDHYD 4 050   5 6 2                                     1
6 RUNOFF 1 048       5    0.085      69.2     0.67        1
```

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

```
6 REACH  3 046   5   6  2940.
6 RUNOFF 1 046       5     0.092      63.4     0.49        1
6 ADDHYD 4 046   5 6 3                                      1
6 ADDHYD 1 050   3 2 5                                      1
6 RESVOR 2    05 5   6    5898.0                            1
6 REACH  3 044   6   7   700.
6 RUNOFF 1 044       5     0.021      60.0     0.31        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      60.1     0.61        1
6 REACH  3 036   7   5  1080.
6 REACH  3 039   5   6  1050.
6 RUNOFF 1 036       4     0.099      60.0     0.74        1
6 ADDHYD 4 036   4 6 7                                      1
6 ADDHYD 4 039   3 7 5                                      1
6 RUNOFF 1 042       6     0.084      69.4     0.65        1
6 REACH  3 040   6   7  3120.
6 REACH  3 039   7   3  1450.
6 RUNOFF 1 040       4     0.141      74.5     0.50        1
6 ADDHYD 4 040   3 4 6                                      1
6 ADDHYD 4 039   5 6 7                                      1
6 RUNOFF 1 039       4     0.043      74.2     0.29        1
6 ADDHYD 4 039   7 4 5                                      1
6 REACH  3 032   5   6  1250.
6 RUNOFF 1 030       5     0.139      70.7     0.67        1
6 REACH  3 028   5   7  1800.
6 RUNOFF 1 028       4     0.108      71.7     0.55        1
6 ADDHYD 4 028   4 7 5                                      1
6 RESVOR 2    04 5   7   5924.0                            1
6 REACH  3 027   7   4  1400.
6 RUNOFF 1 027       7     0.035      60.0     0.36        1
6 ADDHYD 4 027   4 7 5                                      1
6 RUNOFF 1 026       4     0.109      72.9     0.55        1
6 ADDHYD 4 027   4 5 7                                      1
6 REACH  3 025   7   5  1000.0
6 RUNOFF 1 025       4     0.050      60.0     0.42        1
6 ADDHYD 4 025   5 4 7                                      1
6 ADDHYD 4 032   6 7 5                                      1
6 RUNOFF 1 032       7     0.083      69.2     0.43        1
6 ADDHYD 4 024   5 7 4                                      1
6 REACH  3 024   4   6  1250.
6 RUNOFF 1 024       7     0.143      70.0     0.55        1
6 ADDHYD 4 024   6 7 5                                      1
6 RUNOFF 1 022       6     0.145      78.4     0.68        1
6 REACH  3 020   6   4  2040.
```

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

```
6 RUNOFF 1 020       7     0.045      82.4     0.34        1
6 ADDHYD 4 020   7 4 6                                      1
6 RUNOFF 1 018       4     0.109      76.5     0.37        1
6 ADDHYD 4 018   4 6 7                                      1
6 REACH  3 016   7   4  3100.
6 RUNOFF 1 016       6     0.065      74.0     0.64        1
6 ADDHYD 4 016   4 6 3                                      1
6 RUNOFF 1 034       7     0.063      75.0     0.30        1
6 REACH  3 033   7   4  2700.
6 RUNOFF 1 033       6     0.081      78.4     0.24        1
6 ADDHYD 4 033   4 6 7                                      1
6 ADDHYD 4 033   3 7 4                                      1
6 DIVERT 6 033   4 3 1    50.                               1
6 REACH  3 014   3   6  2800.
6 RUNOFF 1 014       4     0.068      64.7     0.64        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 RESVOR 2    01 5   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
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 INCREM 6                0.10
7 COMPUT 7 062   001      0.0          4.50        1.0    7 2  01  01
```

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

  ENDCMP 1
  ENDJOB 2


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


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


EXECUTIVE CONTROL OPERATION COMPUT     FROM XSECTION  62  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  62

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
              6.34                          92.47                       (RUNOFF)
              9.96                           6.22                       (RUNOFF)
             12.99                           4.90                       (RUNOFF)
             19.90                           3.50                       (RUNOFF)
             23.92                           1.79                       (RUNOFF)

     *** WARNING  REACH  60 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT  ***


OPERATION REACH    CROSS SECTION  60

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
              6.34                          92.47                      5931.15
              9.96                           6.22                      5930.11
             12.99                           4.90                      5930.09
             19.90                           3.50                      5930.06
             23.92                           1.79                      5930.03


OPERATION RUNOFF   CROSS SECTION  60

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
              6.26                          39.70                       (RUNOFF)
```

OPERATION ADDHYD CROSS SECTION 60

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.32	130.85	5931.29
9.96	8.51	5930.15
12.98	6.71	5930.12
19.90	4.79	5930.09
23.92	2.45	5930.04

OPERATION RUNOFF CROSS SECTION 58

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.31	27.22	(RUNOFF)

OPERATION RUNOFF CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.23	83.89	(RUNOFF)
9.97	4.33	(RUNOFF)
12.95	3.40	(RUNOFF)
19.91	2.41	(RUNOFF)
23.90	1.23	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.28	98.33	5930.79
9.97	6.04	5930.12
12.97	4.75	5930.10
19.95	3.38	5930.07
23.91	1.72	5930.03

OPERATION ADDHYD CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.30	228.56	5931.15
9.97	14.55	5930.23
12.98	11.46	5930.21
19.92	8.17	5930.16
23.91	4.17	5930.08

*** WARNING - STRUCTURE 3 DELTA T IS TOO LARGE. 0 /2 > S /DELTA T OCCURED 1 TIMES STARTING WITH POINT261

OPERATION RESVOR STRUCTURE 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.32	227.31	5934.67
9.99	14.54	5931.54
13.01	11.45	5931.33
19.95	8.17	5931.11
23.95	4.17	5930.64

*** 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)
6.24	89.86	(RUNOFF)
12.96	3.18	(RUNOFF)
19.88	2.22	(RUNOFF)
23.91	1.13	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.41	288.43	5881.12
10.02	18.62	5880.19
13.06	14.62	5880.15
19.96	10.38	5880.10
23.97	5.29	5880.05

OPERATION RUNOFF CROSS SECTION 52

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.34	31.32	(RUNOFF)

OPERATION RUNOFF CROSS SECTION 50

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.26	107.24	(RUNOFF)
9.97	5.91	(RUNOFF)
12.97	4.66	(RUNOFF)
19.93	3.31	(RUNOFF)
23.92	1.69	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 50

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.30	125.17	5898.76
9.97	8.00	5898.16
12.98	6.29	5898.13
19.95	4.48	5898.09
23.92	2.28	5898.05

OPERATION RUNOFF CROSS SECTION 48

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.30	65.15	(RUNOFF)

OPERATION RUNOFF CROSS SECTION 46

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.20	62.90	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 46

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.31	105.57	5898.71
9.96	5.99	5898.06
12.97	4.65	5898.05
19.95	3.27	5898.03
23.91	1.66	5898.02

OPERATION ADDHYD CROSS SECTION 50

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.30	230.69	5899.03
9.97	13.99	5898.23
12.97	10.95	5898.21
19.95	7.75	5898.16
23.91	3.94	5898.08

OPERATION RESVOR STRUCTURE 5

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.32	230.79	5901.40
9.97	13.99	5898.35
12.98	10.95	5898.27
19.95	7.75	5898.19
23.93	3.94	5898.10

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

OPERATION RUNOFF CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.11	15.11	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.31	237.46	5881.18
9.97	14.57	5880.23
12.97	11.40	5880.21
19.95	8.08	5880.16
23.91	4.11	5880.08

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.36	515.69	5881.64
9.98	33.18	5880.33
13.01	26.00	5880.26
19.96	18.46	5880.18
23.94	9.39	5880.09

OPERATION RUNOFF CROSS SECTION 38

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.29	39.63	(RUNOFF)

*** WARNING REACH 36 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)
6.37	38.21	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 36

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.43	71.81	5858.69
9.97	5.10	5858.15
13.05	4.02	5858.12
19.95	2.87	5858.09
23.95	1.46	5858.04

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.60	486.89	5853.15
13.15	29.97	5851.30
20.05	21.29	5851.21
24.00	10.83	5851.11

OPERATION RUNOFF CROSS SECTION 42

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.28	66.51	(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)
6.18	177.26	(RUNOFF)
9.96	5.97	(RUNOFF)
12.93	4.58	(RUNOFF)
19.95	3.16	(RUNOFF)
23.91	1.60	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.21	192.74	5863.09
12.95	6.99	5862.44
19.95	4.83	5862.43
23.91	2.44	5862.41

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.55	604.60	5853.43
13.06	36.91	5851.37
19.97	26.11	5851.26
23.95	13.28	5851.13

OPERATION RUNOFF CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	70.02	(RUNOFF)
7.95	3.55	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.55	615.46	5853.45
13.02	38.28	5851.38
19.96	27.07	5851.27
23.88	13.75	5851.14

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

OPERATION RUNOFF CROSS SECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.29	115.68	(RUNOFF)
9.95	5.35	(RUNOFF)
12.97	4.13	(RUNOFF)
19.92	2.86	(RUNOFF)
23.90	1.45	(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)
6.21	109.73	(RUNOFF)
9.96	4.27	(RUNOFF)
12.95	3.29	(RUNOFF)
19.88	2.28	(RUNOFF)
23.91	1.16	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 28

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.31	207.01	5925.08
9.96	9.62	5924.10
12.98	7.42	5924.07
19.92	5.14	5924.05
23.93	2.60	5924.03

OPERATION RESVOR STRUCTURE 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.56	150.52	5928.37
8.39	17.25	5924.72
9.96	9.61	5924.40
12.99	7.41	5924.31
19.95	5.14	5924.21
23.95	2.60	5924.11

*** 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)
6.13	23.22	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.54	156.59	5872.84
8.38	18.37	5872.18
9.96	10.57	5872.11
12.97	8.17	5872.08
19.94	5.68	5872.06
23.92	2.88	5872.03

OPERATION RUNOFF CROSS SECTION 26

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.21	117.63	(RUNOFF)
9.95	4.44	(RUNOFF)
12.94	3.42	(RUNOFF)
19.88	2.36	(RUNOFF)
23.91	1.19	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.30	241.86	5873.05
8.37	25.04	5872.25
9.96	15.01	5872.15
12.96	11.59	5872.12
19.91	8.03	5872.08
23.91	4.07	5872.04

*** WARNING REACH 25 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)
6.17	29.31	(RUNOFF)
7.95	2.61	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.26	266.24	5831.12
8.36	26.82	5830.27
9.96	16.38	5830.16
12.95	12.67	5830.13
19.91	8.80	5830.09
23.90	4.47	5830.04

OPERATION ADDHYD CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.62	808.54	5818.18
13.03	50.89	5815.71
19.97	35.85	5815.50
23.93	18.21	5815.25

OPERATION RUNOFF CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.15	86.01	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.60	830.89	5832.85
13.01	53.27	5830.62
19.96	37.50	5830.45
23.92	19.05	5830.23

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

OPERATION RUNOFF CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.22	132.89	(RUNOFF)
9.96	5.40	(RUNOFF)
12.95	4.18	(RUNOFF)
19.89	2.90	(RUNOFF)
23.91	1.47	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.68	870.63	5832.95
13.08	57.42	5830.64
20.00	40.37	5830.48
23.98	20.52	5830.25

OPERATION RUNOFF CROSS SECTION 22

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.27	173.73	(RUNOFF)
12.96	5.08	(RUNOFF)
19.87	3.47	(RUNOFF)
23.90	1.75	(RUNOFF)

*** WARNING REACH 20 ATT-KIN COEFF.(C) GREATER THAN 0.667, CONSIDER REDUCING MAIN TIME INCREMENT ***

OPERATION RUNOFF CROSS SECTION 20

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	94.38	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 20

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.26	212.84	5854.92
12.90	6.77	5853.14
19.95	4.61	5853.09
23.86	2.33	5853.05

OPERATION RUNOFF CROSS SECTION 18

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.10	175.06	(RUNOFF)
9.95	4.83	(RUNOFF)
19.87	2.53	(RUNOFF)
23.86	1.29	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 18

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.15	371.51	(NULL)
12.87	10.47	(NULL)
19.89	7.14	(NULL)
23.86	3.62	(NULL)

OPERATION RUNOFF CROSS SECTION 16

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.26	66.21	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 16

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.38	340.13	5853.94
13.01	12.53	5849.43
19.95	8.57	5849.26
23.97	4.32	5849.08

OPERATION RUNOFF CROSS SECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.07	105.08	(RUNOFF)
7.95	5.31	(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)
6.03	162.00	(RUNOFF)
7.95	7.40	(RUNOFF)
23.79	1.00	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.08	237.44	5848.91
7.95	12.66	5848.10
9.95	6.44	5848.05
19.95	3.38	5848.03
23.82	1.71	5848.01

OPERATION ADDHYD CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.22	467.25	5849.43
12.89	17.44	5848.14
19.95	11.95	5848.10
23.86	6.03	5848.05

OPERATION DIVERT CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
5.80	50.00*	5848.40	* FIRST POINT OF FLAT PEAK
12.89	17.44	5848.14	
19.95	11.95	5848.10	
23.86	6.03	5848.05	

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.22	417.25	(DIVERT)

***WARNING - LACK OF LOW FLOW DEFINITION FOR XSECT TABLE 14. MAX.FLOW LESS THAN 2ND TABLE VALUE.

OPERATION RUNOFF CROSS SECTION 14

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.30	41.16	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 14

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.34	80.23	5850.44
13.00	19.13	5848.60
19.97	13.12	5848.35
23.96	6.62	5848.08

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.67	936.74	5833.13
13.07	76.55	5830.76
19.99	53.49	5830.62
23.98	27.14	5830.33

OPERATION RESVOR STRUCTURE 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.86	888.35	5821.60
13.10	76.53	5815.85
20.02	53.48	5815.59
24.00	27.12	5815.30

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 2.31 SQ.MI.

5.00	DISCHG	.00	.00	.00	.00	.00	.00	.12	2.54	19.49	75.48
6.00	DISCHG	188.14	302.79	478.65	646.23	778.27	845.12	861.05	876.00	886.30	887.17
7.00	DISCHG	875.36	850.54	762.91	660.55	575.58	500.85	436.70	377.45	334.87	303.47
8.00	DISCHG	279.96	261.68	246.80	233.42	217.82	201.96	188.13	172.31	157.09	147.57
9.00	DISCHG	138.56	130.54	123.69	118.00	113.44	109.85	107.08	104.98	103.40	102.24
10.00	DISCHG	101.39	100.74	100.10	99.13	97.59	95.57	93.31	91.00	88.75	86.64
11.00	DISCHG	84.69	82.91	81.35	80.04	79.03	78.25	77.63	77.14	76.77	76.55
12.00	DISCHG	76.41	76.31	76.21	76.17	76.18	76.23	76.27	76.28	76.31	76.39
13.00	DISCHG	76.48	76.53	76.48	76.23	75.74	75.03	74.19	73.30	72.42	71.60
14.00	DISCHG	70.86	70.16	69.48	68.78	68.06	67.34	66.64	66.00	65.42	64.90
15.00	DISCHG	64.44	64.03	63.61	63.05	62.26	61.30	60.26	59.24	58.25	57.31
16.00	DISCHG	56.44	55.67	55.01	54.46	54.01	53.67	53.40	53.20	53.06	52.95
17.00	DISCHG	52.88	52.83	52.81	52.79	52.79	52.80	52.81	52.83	52.85	52.87
18.00	DISCHG	52.90	52.92	52.95	52.98	53.01	53.04	53.07	53.10	53.12	53.16
19.00	DISCHG	53.19	53.22	53.25	53.28	53.31	53.34	53.37	53.40	53.43	53.46
20.00	DISCHG	53.48	53.47	53.27	52.56	51.13	49.10	46.76	44.32	41.90	39.59
21.00	DISCHG	37.43	35.45	33.68	32.21	31.04	30.12	29.38	28.77	28.30	27.98
22.00	DISCHG	27.77	27.58	27.40	27.28	27.22	27.20	27.16	27.10	27.06	27.07
23.00	DISCHG	27.09	27.09	27.06	27.04	27.06	27.10	27.10	27.08	27.06	27.08
24.00	DISCHG	27.12	27.08	26.80	25.98	24.42	22.30	19.91	17.45	15.02	12.65

25.00	DISCHG	10.44	8.44	6.71	5.26	4.07	3.12	2.37	1.79	1.35	1.01
26.00	DISCHG	.75	.55	.40	.29	.21	.16	.12	.08	.06	.04
27.00	DISCHG	.03	.02	.02	.01	.01	.01	.00			

RUNOFF VOLUME ABOVE BASEFLOW = 1.61 WATERSHED INCHES, 2407.35 CFS-HRS, 198.94 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)
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)
6.85	908.08	5799.13
12.99	81.30	5794.96
19.96	56.79	5794.63
23.76	28.74	5794.12

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)
6.10	825.32	5798.91
6.81	925.66	5799.17
12.96	85.33	5795.02
19.95	59.53	5794.67
23.79	30.13	5794.15

*** 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)
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)
6.07	985.07	5773.04
6.55	943.11	5772.97
6.77	937.74	5772.96
12.86	88.21	5770.87
19.95	61.53	5770.75
23.79	31.16	5770.44

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	1146.34	5773.31
6.54	964.98	5773.01
12.84	91.17	5770.89
19.95	63.55	5770.76
23.80	32.19	5770.45

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.19	814.71	5777.58
12.98	91.10	5771.69
19.97	63.39	5771.22
23.90	32.12	5770.64

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = 2.70 SQ.MI.

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.02	.05	.09	.14
5.00	DISCHG	.20	.32	.56	1.02	1.85	3.32	13.37	61.16	145.76	240.17
6.00	DISCHG	357.31	456.78	534.87	587.03	625.30	662.65	697.15	727.06	753.07	775.73
7.00	DISCHG	794.76	809.15	814.69	807.85	790.53	765.81	735.85	702.19	666.52	630.70
8.00	DISCHG	595.86	558.88	523.10	489.34	457.64	427.84	399.94	373.72	348.90	325.70
9.00	DISCHG	298.33	272.20	249.45	229.69	212.57	198.84	187.07	176.85	168.02	160.43
10.00	DISCHG	153.93	148.32	143.31	138.75	134.59	130.74	127.14	123.77	120.59	117.57
11.00	DISCHG	114.70	111.99	108.92	104.42	101.04	98.45	96.47	94.99	93.90	93.07
12.00	DISCHG	92.43	91.94	91.60	91.39	91.25	91.13	91.04	91.02	91.05	91.08
13.00	DISCHG	91.10	91.06	90.88	90.52	90.04	89.44	88.74	88.01	87.25	86.47
14.00	DISCHG	85.65	84.81	83.93	83.03	82.14	81.28	80.47	79.71	78.99	78.33
15.00	DISCHG	77.73	77.13	76.40	75.54	74.62	73.67	72.68	71.67	70.66	69.67
16.00	DISCHG	68.71	67.79	66.94	66.17	65.50	64.92	64.43	64.02	63.70	63.44
17.00	DISCHG	63.24	63.09	62.97	62.89	62.83	62.80	62.78	62.77	62.77	62.78
18.00	DISCHG	62.79	62.81	62.84	62.86	62.89	62.92	62.95	62.98	63.01	63.04
19.00	DISCHG	63.07	63.10	63.13	63.16	63.20	63.23	63.26	63.29	63.32	63.35
20.00	DISCHG	63.38	63.27	62.70	61.65	60.27	58.62	56.72	54.66	52.51	50.28
21.00	DISCHG	48.29	46.31	44.37	42.56	40.88	39.36	38.01	36.88	35.95	35.17
22.00	DISCHG	34.50	33.95	33.53	33.21	32.96	32.73	32.55	32.42	32.35	32.29
23.00	DISCHG	32.22	32.16	32.13	32.13	32.13	32.11	32.08	32.08	32.10	32.12
24.00	DISCHG	32.10	31.95	31.39	30.38	29.06	27.50	25.69	23.70	21.57	19.36
25.00	DISCHG	17.13	14.93	12.83	10.87	9.10	7.53	6.16	5.00	4.02	3.21
26.00	DISCHG	2.54	2.00	1.56	1.22	.94	.73	.56	.43	.33	.25
27.00	DISCHG	.19	.14	.11	.08	.06	.05	.03	.02	.02	.01
28.00	DISCHG	.01	.01								

RUNOFF VOLUME ABOVE BASEFLOW = 1.79 WATERSHED INCHES, 3110.13 CFS-HRS, 257.02 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)
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)
7.18	824.24	5730.11
12.92	94.13	5727.96
19.96	65.48	5727.79
23.84	33.17	5727.53

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)
6.10	780.85	5730.02
7.17	833.38	5730.13
12.84	97.11	5727.98
19.96	67.53	5727.81
23.81	34.22	5727.54

*** 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)
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)
6.08	1076.30	5728.48
7.14	851.51	5726.94
12.82	102.54	5721.69
19.95	71.25	5721.37
23.81	36.12	5721.01

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

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)
6.07	1159.40	5722.79
7.14	856.52	5720.12
12.82	104.05	5715.51
19.95	72.28	5715.18
23.80	36.64	5714.82

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

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.02	.05	.09	.14
5.00	DISCHG	.20	.32	.56	1.02	1.85	3.32	27.85	196.34	500.40	802.69
6.00	DISCHG	1079.35	1148.99	922.19	780.57	747.55	758.17	777.33	789.88	806.52	826.20
7.00	DISCHG	844.24	855.57	854.10	843.11	824.32	799.08	768.97	735.28	699.65	663.89
8.00	DISCHG	629.07	589.33	546.52	508.52	475.26	444.90	416.79	390.50	365.66	342.47
9.00	DISCHG	315.12	289.00	266.27	246.52	229.42	215.69	203.94	193.73	184.91	177.33
10.00	DISCHG	170.84	164.55	157.84	152.23	147.57	143.47	139.83	136.56	133.45	130.35
11.00	DISCHG	127.38	124.68	121.75	117.32	113.86	111.16	109.20	107.85	106.83	105.93
12.00	DISCHG	105.17	104.70	104.50	104.36	104.14	103.91	103.84	103.95	104.05	104.01
13.00	DISCHG	103.91	103.60	102.81	102.09	101.36	100.59	99.89	99.27	98.59	97.72
14.00	DISCHG	96.79	95.79	94.60	93.52	92.56	91.69	90.87	90.11	89.40	88.74

15.00	DISCHG	88.14	87.24	85.79	84.48	83.40	82.39	81.39	80.37	79.36	73.37
16.00	DISCHG	77.41	76.50	75.65	74.89	74.21	73.64	73.15	72.75	72.42	72.17
17.00	DISCHG	71.97	71.82	71.71	71.63	71.58	71.54	71.53	71.52	71.52	71.54
18.00	DISCHG	71.55	71.57	71.60	71.63	71.66	71.69	71.72	71.75	71.78	71.82
19.00	DISCHG	71.85	71.89	71.92	71.96	71.99	72.02	72.06	72.09	72.13	72.16
20.00	DISCHG	72.19	71.36	68.99	66.85	64.95	63.02	61.08	59.12	57.03	54.71
21.00	DISCHG	52.61	50.63	48.83	47.09	45.32	43.68	42.34	41.34	40.48	39.61
22.00	DISCHG	38.83	38.29	37.99	37.75	37.40	37.06	36.88	36.89	36.89	36.74
23.00	DISCHG	36.55	36.50	36.60	36.67	36.58	36.44	36.42	36.55	36.64	36.57
24.00	DISCHG	36.43	35.50	33.12	31.02	29.30	27.58	25.72	23.71	21.57	19.36
25.00	DISCHG	17.13	14.93	12.83	10.87	9.10	7.53	6.16	5.00	4.02	3.21
26.00	DISCHG	2.54	2.00	1.56	1.22	.94	.73	.56	.43	.33	.25
27.00	DISCHG	.19	.14	.11	.08	.06	.05	.03	.02	.02	.01
28.00	DISCHG	.01	.01								

RUNOFF VOLUME ABOVE BASEFLOW = 1.85 WATERSHED INCHES, 3664.29 CFS-HRS, 302.82 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 62	RUNOFF	.23	7	2	.10	.0	4.50	24.00	1.02	---	6.34	92.47	405.6
XSECTION 60	REACH	.23	7	2	.10	.0	4.50	24.00	1.02	5931.15	6.34	92.47	405.6
XSECTION 60	RUNOFF	.08	7	2	.10	.0	4.50	24.00	1.02	---	6.26	39.70	472.6
XSECTION 60	ADDHYD	.31	7	2	.10	.0	4.50	24.00	1.02	5931.29	6.32	130.85	419.4
XSECTION 58	RUNOFF	.06	7	2	.10	.0	4.50	24.00	1.02	---	6.31	27.22	432.0
XSECTION 56	REACH	.06	7	2	.10	.0	4.50	24.00	1.02	5930.31	6.50	24.37	386.8
XSECTION 56	RUNOFF	.15	7	2	.10	.0	4.50	24.00	1.13	---	6.23	83.89	566.8
XSECTION 56	ADDHYD	.21	7	2	.10	.0	4.50	24.00	1.09	5930.79	6.28	98.33	466.0
XSECTION 56	ADDHYD	.52	7	2	.10	.0	4.50	24.00	1.05	5931.15	6.30	228.56	437.0
STRUCTURE 3	RESVOR	.52	7	2	.10	.0	4.50	24.00	1.05	5934.67	6.32	227.31	434.6
XSECTION 54	REACH	.52	7	2	.10	.0	4.50	24.00	1.05	5880.97	6.46	218.85	418.5
XSECTION 54	RUNOFF	.12	7	2	.10	.0	4.50	24.00	1.48	---	6.24	89.86	768.0
XSECTION 54	ADDHYD	.64	7	2	.10	.0	4.50	24.00	1.13	5881.12	6.41	288.43	450.7
XSECTION 52	RUNOFF	.08	7	2	.10	.0	4.50	24.00	1.03	---	6.34	31.32	412.1
XSECTION 50	REACH	.08	7	2	.10	.0	4.50	24.00	1.03	5898.33	6.54	27.97	368.0
XSECTION 50	RUNOFF	.21	7	2	.10	.0	4.50	24.00	1.09	---	6.26	107.24	518.1
XSECTION 50	ADDHYD	.28	7	2	.10	.0	4.50	24.00	1.07	5898.76	6.30	125.17	442.3
XSECTION 48	RUNOFF	.09	7	2	.10	.0	4.50	24.00	1.61	---	6.30	65.15	766.5
XSECTION 46	REACH	.09	7	2	.10	.0	4.50	24.00	1.61	5898.54	6.46	60.00	705.9
XSECTION 46	RUNOFF	.09	7	2	.10	.0	4.50	24.00	1.23	---	6.20	62.90	683.7
XSECTION 46	ADDHYD	.18	7	2	.10	.0	4.50	24.00	1.41	5898.71	6.31	105.57	596.4
XSECTION 50	ADDHYD	.46	7	2	.10	.0	4.50	24.00	1.20	5899.03	6.30	230.69	501.5
STRUCTURE 5	RESVOR	.46	7	2	.10	.0	4.50	24.00	1.20	5901.40	6.32	230.79	501.7
XSECTION 44	REACH	.46	7	2	.10	.0	4.50	24.00	1.20	5881.16	6.32	230.79	501.7
XSECTION 44	RUNOFF	.02	7	2	.10	.0	4.50	24.00	1.02	---	6.11	15.11	719.7
XSECTION 44	ADDHYD	.48	7	2	.10	.0	4.50	24.00	1.20	5881.18	6.31	237.46	493.7
XSECTION 54	ADDHYD	1.12	7	2	.10	.0	4.50	24.00	1.16	5881.64	6.36	515.69	460.0
XSECTION 39	REACH	1.12	7	2	.10	.0	4.50	24.00	1.16	5852.92	6.63	425.99	380.0
XSECTION 38	RUNOFF	.09	7	2	.10	.0	4.50	24.00	1.02	---	6.29	39.63	450.3
XSECTION 36	REACH	.09	7	2	.10	.0	4.50	24.00	1.02	5858.52	6.29	39.63	450.3
XSECTION 39	REACH	.09	7	2	.10	.0	4.50	24.00	1.02	5851.35	6.48	34.66	393.8
XSECTION 36	RUNOFF	.10	7	2	.10	.0	4.50	24.00	1.02	---	6.37	38.21	386.0

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 36	ADDHYD	.19	7	2	.10	.0	4.50	24.00	1.02	5858.69	6.43	71.81	384.0
XSECTION 39	ADDHYD	1.31	7	2	.10	.0	4.50	24.00	1.14	5853.15	6.60	486.89	372.2
XSECTION 42	RUNOFF	.08	7	2	.10	.0	4.50	24.00	1.63	---	6.28	66.51	791.8
XSECTION 40	REACH	.08	7	2	.10	.0	4.50	24.00	1.63	5862.76	6.40	65.37	778.2
XSECTION 39	REACH	.08	7	2	.10	.0	4.50	24.00	1.63	5851.52	6.62	56.38	671.1
XSECTION 40	RUNOFF	.14	7	2	.10	.0	4.50	24.00	2.01	---	6.18	177.26	1257.2
XSECTION 40	ADDHYD	.22	7	2	.10	.0	4.50	24.00	1.87	5863.09	6.21	192.74	856.6
XSECTION 39	ADDHYD	1.53	7	2	.10	.0	4.50	24.00	1.24	5853.43	6.55	604.60	394.4
XSECTION 39	RUNOFF	.04	7	2	.10	.0	4.50	24.00	1.99	---	6.07	70.02	1628.3
XSECTION 39	ADDHYD	1.58	7	2	.10	.0	4.50	24.00	1.26	5853.45	6.55	615.46	390.5
XSECTION 32	REACH	1.58	7	2	.10	.0	4.50	24.00	1.26	5817.74	6.68	607.14	385.2
XSECTION 30	RUNOFF	.14	7	2	.10	.0	4.50	24.00	1.72	---	6.29	115.68	832.2
XSECTION 28	REACH	.14	7	2	.10	.0	4.50	24.00	1.72	5924.83	6.41	114.00	820.1
XSECTION 28	RUNOFF	.11	7	2	.10	.0	4.50	24.00	1.80	---	6.21	109.73	1016.0
XSECTION 28	ADDHYD	.25	7	2	.10	.0	4.50	24.00	1.75	5925.04	6.31	207.01	838.1
STRUCTURE 4	RESVOR	.25	7	2	.10	.0	4.50	24.00	1.75	5928.37	6.56	150.52	609.4
XSECTION 27	REACH	.25	7	2	.10	.0	4.50	24.00	1.75	5872.83	6.56	150.52	609.4
XSECTION 27	RUNOFF	.04	7	2	.10	.0	4.50	24.00	1.02	---	6.13	23.22	663.4
XSECTION 27	ADDHYD	.28	7	2	.10	.0	4.50	24.00	1.66	5872.84	6.54	156.59	555.3
XSECTION 26	RUNOFF	.11	7	2	.10	.0	4.50	24.00	1.89	---	6.21	117.63	1079.2
XSECTION 27	ADDHYD	.39	7	2	.10	.0	4.50	24.00	1.72	5873.05	6.30	241.86	618.6
XSECTION 25	REACH	.39	7	2	.10	.0	4.50	24.00	1.72	5831.05	6.30	241.86	618.6
XSECTION 25	RUNOFF	.05	7	2	.10	.0	4.50	24.00	1.02	---	6.17	29.31	586.2
XSECTION 25	ADDHYD	.44	7	2	.10	.0	4.50	24.00	1.64	5831.12	6.26	266.24	603.7
XSECTION 32	ADDHYD	2.02	7	2	.10	.0	4.50	24.00	1.35	5818.18	6.62	808.54	400.9
XSECTION 32	RUNOFF	.08	7	2	.10	.0	4.50	24.00	1.61	---	6.15	86.01	1036.2
XSECTION 24	ADDHYD	2.10	7	2	.10	.0	4.50	24.00	1.36	5832.85	6.60	830.89	395.7
XSECTION 24	REACH	2.10	7	2	.10	.0	4.50	24.00	1.36	5832.84	6.72	827.38	394.0
XSECTION 24	RUNOFF	.14	7	2	.10	.0	4.50	24.00	1.67	---	6.22	132.89	929.3
XSECTION 24	ADDHYD	2.24	7	2	.10	.0	4.50	24.00	1.38	5832.95	6.68	870.63	388.2
XSECTION 22	RUNOFF	.14	7	2	.10	.0	4.50	24.00	2.32	---	6.27	173.73	1198.1
XSECTION 20	REACH	.14	7	2	.10	.0	4.50	24.00	2.32	5854.77	6.37	173.34	1195.5
XSECTION 20	RUNOFF	.05	7	2	.10	.0	4.50	24.00	2.67	---	6.07	94.38	2097.4
XSECTION 20	ADDHYD	.19	7	2	.10	.0	4.50	24.00	2.40	5854.92	6.26	212.84	1120.2

XSECTION	18	RUNOFF	.11	7	2	.10	.0	4.50	24.00	2.17	---	6.10	175.06	1606.1
XSECTION	18	ADDHYD	.30	7	2	.10	.0	4.50	24.00	2.32	---	6.15	371.51	1242.5

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 16	REACH	.30	7	2	.10	.0	4.50	24.00	2.32	5853.45	6.42	281.81	942.5
XSECTION 16	RUNOFF	.06	7	2	.10	.0	4.50	24.00	1.97	---	6.26	66.21	1018.7
XSECTION 16	ADDHYD	.36	7	2	.10	.0	4.50	24.00	2.25	5853.94	6.38	340.13	934.4
XSECTION 34	RUNOFF	.06	7	2	.10	.0	4.50	24.00	2.05	---	6.07	105.08	1667.9
XSECTION 33	REACH	.06	7	2	.10	.0	4.50	24.00	2.05	5848.59	6.19	98.52	1563.9
XSECTION 33	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.33	---	6.03	162.00	2000.0
XSECTION 33	ADDHYD	.14	7	2	.10	.0	4.50	24.00	2.20	5848.91	6.08	237.44	1648.9
XSECTION 33	ADDHYD	.51	7	2	.10	.0	4.50	24.00	2.24	5849.43	6.22	467.25	919.8
XSECTION 33	DIVERT	.00	7	2	.10	.0	4.50	24.00	2.24	5848.40	5.80*	50.00	**********
XSECTION 0	DIVERT	.51	7	2	.10	.0	4.50	24.00	1.16	---	6.22	417.25	821.4
XSECTION 14	REACH	.00	7	2	.10	.0	4.50	24.00	1.16	5849.90	8.15	50.00	**********
XSECTION 14	RUNOFF	.07	7	2	.10	.0	4.50	24.00	1.31	---	6.30	41.16	605.4
XSECTION 14	ADDHYD	.07	7	2	.10	.0	4.50	24.00	9.40	5850.44	6.34	80.23	1179.9
XSECTION 24	ADDHYD	2.31	7	2	.10	.0	4.50	24.00	1.61	5833.13	6.67	936.74	405.3
STRUCTURE 2	RESVOR	2.31	7	2	.10	.0	4.50	24.00	1.61	5821.60	6.86	888.35	384.4
XSECTION 12	REACH	2.31	7	2	.10	.0	4.50	24.00	1.61	5799.08	6.86	888.35	384.4
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	2.43	7	2	.10	.0	4.50	24.00	1.70	5799.13	6.85	908.08	373.8
XSECTION 12	RUNOFF	.10	7	2	.10	.0	4.50	24.00	3.01	---	6.05	250.51	2456.0
XSECTION 12	ADDHYD	2.53	7	2	.10	.0	4.50	24.00	1.75	5799.17	6.81	925.66	365.7
XSECTION 6	REACH	2.53	7	2	.10	.0	4.50	24.00	1.75	5772.93	6.81	925.66	365.7
XSECTION 6	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.26	---	6.04	162.20	1931.0
XSECTION 6	ADDHYD	2.62	7	2	.10	.0	4.50	24.00	1.77	5773.04	6.07	985.07	376.7
XSECTION 8	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.31	---	6.06	161.98	1928.3
XSECTION 6	ADDHYD	2.70	7	2	.10	.0	4.50	24.00	1.79	5773.31	6.07	1146.34	424.7
STRUCTURE 1	RESVOR	2.70	7	2	.10	.0	4.50	24.00	1.79	5777.58	7.19	814.71	301.9
XSECTION 4	REACH	2.70	7	2	.10	.0	4.50	24.00	1.79	5730.09	7.19	814.71	301.9
XSECTION 4	RUNOFF	.08	7	2	.10	.0	4.50	24.00	2.48	---	6.03	178.53	2125.3
XSECTION 4	ADDHYD	2.78	7	2	.10	.0	4.50	24.00	1.81	5730.11	7.18	824.24	296.2
XSECTION 3	RUNOFF	.09	7	2	.10	.0	4.50	24.00	2.30	---	6.02	169.83	1998.0
XSECTION 4	ADDHYD	2.87	7	2	.10	.0	4.50	24.00	1.82	5730.13	7.17	833.38	290.6

XSECTION	2	REACH	2.87	7	2	.10	.0	4.50	24.00	1.82	5726.81	7.17	833.38	290.6
XSECTION	2	RUNOFF	.16	7	2	.10	.0	4.50	24.00	2.30	---	6.05	299.85	1934.5

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 2	ADDHYD	3.02	7	2	.10	.0	4.50	24.00	1.85	5728.48	6.08	1076.30	356.0
XSECTION 2	REACH	3.02	7	2	.10	.0	4.50	24.00	1.85	5728.48	6.08	1076.30	356.0
XSECTION 1	RUNOFF	.04	7	2	.10	.0	4.50	24.00	2.30	---	6.02	85.91	1998.0
XSECTION 1	ADDHYD	3.07	7	2	.10	.0	4.50	24.00	1.85	5722.79	6.07	1159.40	378.1

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)	ATT-KIN COEFF (C)	STOR-AGE (HR)	KINE-MATIC (HR)
ALTERNATE	1	STORM	1																
60	1300	91	6.3	91	6.3	131	6.3	0	1.02	.10	0	2.01	1.37	.012	1.000	169	1.00?	.00	.00
56	2700	27	6.3	24	6.5	98	6.3	0	1.02	.10	1	.990	1.58	.048	.897	511	.52	.20	.14
54	2380	227	6.3	217	6.5	288	6.4	0	1.05	.10	1	.857	1.48	.025	.955	309	.74?	.20	.09
50	2950	31	6.3	28	6.5	125	6.3	0	1.03	.10	1	1.23	1.49	.053	.897	552	.49	.20	.16
46	2940	65	6.3	60	6.5	106	6.3	0	1.61	.10	1	1.33	1.45	.054	.915	451	.57	.20	.13
44	700	230	6.3	230	6.3	237	6.3	0	1.20	.10	0	1.17	1.53	.002	1.000	63	1.00?	.00	.00
39	3400	513	6.4	425	6.6	---	---	0	1.16	.10	1	.223	1.48	.097	.829	822	.36	.20	.24
36	1080	40	6.3	40	6.3	---	---	0	1.02	.10	0	1.96	1.45	.010	1.000	151	1.00?	.00	.00
39	1050	40	6.3	35	6.5	487	6.6	0	1.02	.10	1	.166	1.57	.059	.874	554	.49	.20	.16
40	3120	66	6.3	65	6.4	---	---	0	1.63	.10	1	1.91	1.63	.019	.984	254	.83?	.10	.07
39	1450	65	6.4	56	6.6	601	6.6	0	1.63	.10	1	.170	1.56	.087	.862	649	.43	.20	.18
32	1250	612	6.5	607	6.7	---	---	0	1.26	.10	1	.233	1.46	.016	.992	305	.74?	.20	.08
28	1800	116	6.3	114	6.4	207	6.3	0	1.72	.10	1	1.24	1.45	.023	.986	246	.85?	.10	.07
27	1400	150	6.6	150	6.6	156	6.5	0	1.75	.10	0	1.43	1.49	.006	1.000	142	1.00?	.00	.00
25	1000	242	6.3	242	6.3	265	6.3	0	1.72	.10	0	1.47	1.48	.003	1.000	88	1.00?	.00	.00
24	1250	831	6.6	827	6.7	870	6.7	0	1.36	.10	1	.275	1.46	.011	.995	251	.84?	.10	.07
20	2040	173	6.3	173	6.4	212	6.3	0	2.32	.10	1	2.74	1.34	.021	.999	192	.97?	.10	.05
16	3100	363	6.1	281	6.4	340	6.4	0	2.32	.10	1	.401	1.36	.179	.775	922	.33	.30	.26
33	2700	103	6.1	98	6.2	235	6.1	0	2.05	.10	1	.954	1.59	.060	.952	312	.73?	.10	.09
14	2800	50	5.8	50	8.2	80	6.3	0	.00	.10	1	.388	1.37	.029	.998	1403	.23	2.40	.39
12	1350	887	6.9	887	6.9	---	---	0	1.61	.10	0	3.92	1.37	.001	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	926	6.8	926	6.8	980	6.1	0	1.75	.10	0	.344	1.54	.003	1.000	166	1.00?	.00	.00
4	2100	815	7.2	815	7.2	824	7.2	0	1.79	.10	0	3.69	1.42	.001	1.000	81	1.00?	.00	.00
2	500	833	7.2	833	7.2	1070	6.1	0	1.82	.10	0	5.17	1.29	.000	1.000	24	1.00?	.00	.00
2	1120	1070	6.1	1070	6.1	---	---	0	1.85	.10	0	5.56	1.26	.001	1.000	55	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 5	.46	
ALTERNATE 1		230.79
STRUCTURE 4	.25	
ALTERNATE 1		150.52
STRUCTURE 3	.52	
ALTERNATE 1		227.31
STRUCTURE 2	2.31	
ALTERNATE 1		888.35
STRUCTURE 1	2.70	
ALTERNATE 1		814.71
XSECTION 0	.51	
ALTERNATE 1		417.25
XSECTION 1	3.07	
ALTERNATE 1		1159.40
XSECTION 2	3.02	
ALTERNATE 1		1076.30
XSECTION 3	.09	
ALTERNATE 1		169.83
XSECTION 4	2.87	
ALTERNATE 1		833.38
XSECTION 6	2.70	
ALTERNATE 1		1146.34
XSECTION 8	.08	
ALTERNATE 1		161.98
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	2.53	
ALTERNATE 1		925.66
XSECTION 14	.07	
ALTERNATE 1		80.23
XSECTION 16	.36	
ALTERNATE 1		340.13
XSECTION 18	.30	
ALTERNATE 1		371.51
XSECTION 20	.19	
ALTERNATE 1		212.84
XSECTION 22	.14	
ALTERNATE 1		173.73
XSECTION 24	2.31	
ALTERNATE 1		936.74
XSECTION 25	.44	
ALTERNATE 1		266.24
XSECTION 26	.11	
ALTERNATE 1		117.63
XSECTION 27	.39	
ALTERNATE 1		241.86
XSECTION 28	.25	
ALTERNATE 1		207.01
XSECTION 30	.14	
ALTERNATE 1		115.68
XSECTION 32	.08	
ALTERNATE 1		86.01
XSECTION 33	.00	
ALTERNATE 1		50.00

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

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
XSECTION 34	.06	
ALTERNATE 1		105.08
XSECTION 36	.19	
ALTERNATE 1		71.81
XSECTION 38	.09	
ALTERNATE 1		39.63
XSECTION 39	1.58	
ALTERNATE 1		615.46
XSECTION 40	.22	
ALTERNATE 1		192.74
XSECTION 42	.08	
ALTERNATE 1		66.51
XSECTION 44	.48	
ALTERNATE 1		237.46
XSECTION 46	.18	
ALTERNATE 1		105.57
XSECTION 48	.09	
ALTERNATE 1		65.15
XSECTION 50	.46	
ALTERNATE 1		230.69
XSECTION 52	.08	
ALTERNATE 1		31.32
XSECTION 54	1.12	
ALTERNATE 1		515.69
XSECTION 56	.52	
ALTERNATE 1		228.56
XSECTION 58	.06	
ALTERNATE 1		27.22

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 60	.31	
ALTERNATE 1		130.85
XSECTION 62	.23	
ALTERNATE 1		92.47

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

F. TR-20 ANALYSIS

2-Hour, 10-Year Future Condition
2-Hour, 100-Year Future Condition

G. TR-20 ANALYSIS

24-Hour, 10-Year Future Condition
24-Hour, 100-Year Future Condition

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

JOB TR-20                                                  SUMMARY   NOPLOTS
TITLE 001  WINDMILL GULCH  TR20 RUN  2 HR. 10 YR. STORM
TITLE      FUTURE CONDITIONS W/ AMC III          W62FU2
 5 RAINFL 8                0.0833
 8              0.0000     0.0173     0.0493     0.1201     0.2498
 8              0.4659     0.5696     0.6180     0.6551     0.6880
 8              0.7156     0.7433     0.7710     0.7986     0.8263
 8              0.8539     0.8755     0.8920     0.9084     0.9248
 8              0.9412     0.9576     0.9741     0.9886     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
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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
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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
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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      189.82
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
6                       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
```

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

```
6 REACH  3 039   5   3  3400.
6 RUNOFF 1 038       7     0.086      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
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
```

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

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
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        .02        .31       2.01      1
8                  7.57      14.38      23.65      33.58      42.69      2
8                 52.94      62.25      70.02      76.78      82.81      3
8                 88.22      92.99      94.45      95.75      96.94      4
8                 98.08      99.14     100.06     100.78     101.28      5
8                101.60     101.78     101.88     101.92     101.93      6
8                101.92     101.91     101.89     101.87     101.86      7
8                101.84     101.84     101.84     101.84     101.86      8
8                101.87     101.90     101.93     101.96     102.00      9
```

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

8	102.05	102.10	102.15	102.21	102.27	10
8	102.34	102.41	102.49	102.57	102.65	11
8	102.73	102.82	102.91	103.01	103.10	12
8	103.20	103.30	103.40	103.51	103.61	13
8	103.72	103.82	103.93	104.04	104.14	14
8	104.25	104.36	104.47	104.58	104.69	15
8	104.80	104.91	105.01	105.12	105.23	16
8	105.34	105.44	105.55	105.65	105.76	17
8	105.86	105.96	106.06	106.16	106.26	18
8	106.36	106.46	106.55	106.64	106.73	19
8	106.83	106.91	107.00	107.09	107.17	20
8	107.25	107.33	107.41	107.48	107.56	21
8	107.63	107.70	107.76	107.83	107.89	22
8	107.95	108.01	108.07	108.12	108.17	23
8	108.22	108.26	108.30	108.34	108.37	24
8	108.40	108.43	108.45	108.48	108.49	25
8	108.51	108.52	108.53	108.53	108.53	26
8	108.53	108.52	108.51	108.50	108.48	27
8	108.47	108.44	108.42	108.39	108.35	28
8	108.32	108.27	108.23	108.18	108.13	29
8	108.08	108.02	107.96	107.90	107.83	30
8	107.76	107.68	107.60	107.52	107.44	31
8	107.35	107.26	107.16	107.07	106.96	32
8	106.86	106.75	106.64	106.53	106.41	33
8	106.29	106.16	106.03	105.88	105.73	34
8	105.56	105.38	105.20	105.00	104.80	35
8	104.58	104.36	104.13	103.89	103.64	36
8	103.39	103.12	102.85	102.58	102.29	37
8	102.00	101.70	101.40	101.09	100.77	38
8	100.45	100.12	99.79	99.45	99.11	39
8	98.76	98.40	98.05	97.68	97.32	40
8	96.95	96.57	96.20	95.81	95.43	41
8	95.04	94.65	94.25	93.85	93.45	42
8	93.05	91.97	90.81	89.66	88.53	43
8	87.41	86.30	85.21	84.13	83.06	44
8	82.01	80.98	79.96	78.96	77.97	45
8	77.00	76.04	75.10	74.17	73.25	46
8	72.35	71.46	70.58	69.72	68.86	47
8	68.02	67.19	66.37	65.57	64.77	48
8	63.99	63.21	62.45	61.69	60.95	49
8	60.21	59.48	58.77	58.06	57.36	50
8	56.67	55.99	55.31	54.65	53.99	51
8	53.34	52.70	52.07	51.44	50.82	52
8	50.21	49.60	49.00	48.41	47.83	53
8	47.25	46.68	46.11	45.55	45.00	54
8	44.63	44.26	43.89	43.52	43.15	55

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

 8                42.78      42.41      42.05      41.68      41.32      56
 8                40.95      40.59      40.23      39.87      39.51      57
 8                39.15      38.79      38.44      38.08      37.73      58
 8                37.37      37.02      36.67      36.32      35.98      59
 8                35.63      35.28      34.94      34.60      34.26      60
 9 ENDTBL
 7 INCREM 6                0.10
 7 COMPUT 7 060   001       0.0        2.22       1.0    8 3  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        .02        .31       2.01
8                 7.57      14.38      23.65      33.58      42.69
8                52.94      62.25      70.02      76.78      82.81
8                88.22      92.99      94.45      95.75      96.94
8                98.08      99.14     100.06     100.78     101.28
8               101.60     101.78     101.88     101.92     101.93
8               101.92     101.91     101.89     101.87     101.86
8               101.84     101.84     101.84     101.84     101.86
8               101.87     101.90     101.93     101.96     102.00
8               102.05     102.10     102.15     102.21     102.27
8               102.34     102.41     102.49     102.57     102.65
8               102.73     102.82     102.91     103.01     103.10
8               103.20     103.30     103.40     103.51     103.61
8               103.72     103.82     103.93     104.04     104.14
8               104.25     104.36     104.47     104.58     104.69
8               104.80     104.91     105.01     105.12     105.23
8               105.34     105.44     105.55     105.65     105.76
8               105.86     105.96     106.06     106.16     106.26
8               106.36     106.46     106.55     106.64     106.73
8               106.83     106.91     107.00     107.09     107.17
8               107.25     107.33     107.41     107.48     107.56
8               107.63     107.70     107.76     107.83     107.89
8               107.95     108.01     108.07     108.12     108.17
8               108.22     108.26     108.30     108.34     108.37
8               108.40     108.43     108.45     108.48     108.49
8               108.51     108.52     108.53     108.53     108.53
8               108.53     108.52     108.51     108.50     108.48
8               108.47     108.44     108.42     108.39     108.35
8               108.32     108.27     108.23     108.18     108.13
8               108.08     108.02     107.96     107.90     107.83
8               107.76     107.68     107.60     107.52     107.44
8               107.35     107.26     107.16     107.07     106.96
8               106.86     106.75     106.64     106.53     106.41
8               106.29     106.16     106.03     105.88     105.73
8               105.56     105.38     105.20     105.00     104.80
```

8	104.58	104.36	104.13	103.89	103.64
8	103.39	103.12	102.85	102.58	102.29
8	102.00	101.70	101.40	101.09	100.77
8	100.45	100.12	99.79	99.45	99.11
8	98.76	98.40	98.05	97.68	97.32
8	96.95	96.57	96.20	95.81	95.43
8	95.04	94.65	94.25	93.85	93.45
8	93.05	91.97	90.81	89.66	88.53

```
8                97.41      86.30      85.21      84.13      83.06
8                82.01      80.98      79.96      78.96      77.97
8                77.00      76.04      75.10      74.17      73.25
8                72.35      71.46      70.58      69.72      68.86
8                68.02      67.19      66.37      65.57      64.77
8                63.99      63.21      62.45      61.69      60.95
8                60.21      59.48      58.77      58.06      57.36
8                56.67      55.99      55.31      54.65      53.99
8                53.34      52.70      52.07      51.44      50.82
8                50.21      49.60      49.00      48.41      47.83
8                47.25      46.68      46.11      45.55      45.00
8                44.63      44.26      43.89      43.52      43.15
8                42.78      42.41      42.05      41.68      41.32
8                40.95      40.59      40.23      39.87      39.51
8                39.15      38.79      38.44      38.08      37.73
8                37.37      37.02      36.67      36.32      35.98
8                35.63      35.28      34.94      34.60      34.26
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 =  2.22    RAIN DURATION=  1.00    RAIN TABLE NO.= B    ANT. MOIST. COND= 3
       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)
               .58                          140.91                       (RUNOFF)


OPERATION RUNOFF   CROSS SECTION  58

*** WARNING-MAIN TIME INCREMENT MAY BE TOO LARGE.
        COMPUTED PEAK(    114.66) AT XSECTION  58 EXCEEDS MAX. ADJACENT HYDROGRAPH COORDINATE BY   6 %.

          PEAK TIME(HRS)              PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .55                          114.66                       (RUNOFF)

TIME(HRS)        FIRST HYDROGRAPH POINT =   .00 HOURS      TIME INCREMENT =  .10 HOURS      DRAINAGE AREA =    .06 SQ.MI.
    .00    DISCHG        .00       .00       .24      8.35     48.36    108.07    105.61     70.64     48.18     36.69
   1.00    DISCHG      31.28     29.27     28.55     28.16     25.50     21.13     18.49     17.53     17.21     16.99
   2.00    DISCHG      15.75     11.44      5.15      1.83       .64       .22       .07       .01

     *** 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)
.53	284.43	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.57	335.78	5931.45

OPERATION ADDHYD CROSS SECTION 56

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.58	476.40	5931.83

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

.00	DISCHG	.00	.00	.87	31.11	184.95	432.56	472.04	359.83	258.16	193.48
1.00	DISCHG	158.67	142.87	136.44	132.97	122.27	104.36	91.07	84.46	81.64	80.11
2.00	DISCHG	75.12	58.20	31.82	14.50	6.07	2.41	.91	.31	.09	.02
3.00	DISCHG	.00									

RUNOFF VOLUME ABOVE BASEFLOW = 1.71 WATERSHED INCHES, 326.30 CFS-HRS, 26.97 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION RESVOR STRUCTURE 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.00	163.26	5928.15

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

.00	DISCHG	.00	.00	.25	9.20	54.31	94.79	126.51	147.74	159.57	162.67
1.00	DISCHG	163.26	162.71	161.69	160.50	158.41	155.11	150.90	146.27	141.63	137.17
2.00	DISCHG	132.80	127.95	121.87	114.63	106.98	92.94	78.42	66.04	55.57	38.33
3.00	DISCHG	16.54	7.14	3.08	1.33	.57	.25	.11	.05	.02	.01
4.00	DISCHG	.00									

RUNOFF VOLUME ABOVE BASEFLOW = 1.71 WATERSHED INCHES, 325.47 CFS-HRS, 26.90 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)
.59	143.48	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.65	228.13	5880.99

*** 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 35.98 CFS, 33.15 % OF PEAK.

OPERATION REACH CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
12.70	108.53*	5880.82	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.50	49.41	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.52	57.75	5880.55	
1.98	103.14	5880.81	
12.70	108.53*	5880.82	* FIRST POINT OF FLAT PEAK

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.64	272.82	5881.09	
1.35	295.56	5881.14	
12.70	108.53*	5880.72	* FIRST POINT OF FLAT PEAK

*** WARNING - REACH 39 INFLOW HYDROGRAPH VOLUME TRUNCATED ABOVE BASEFLOW AT 35.98 CFS, 12.20 % OF PEAK.

OPERATION RUNOFF CROSS SECTION 38

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.51	199.94	(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)
.71	125.69	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 36

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.64	289.80	5859.27

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.72	414.41	5852.88	
1.42	360.90	5852.67	
13.10	108.52*	5851.72	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 42

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.59	99.45	(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)
.72	105.82	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.81	165.74	5863.03

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.75	572.17	5853.36	
13.10	108.52*	5851.72	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.52	69.30	(RUNOFF)
1.19	17.47	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.74	598.28	5853.42	
13.10	108.52*	5851.72	* FIRST POINT OF FLAT PEAK

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

.00	DISCHG	.00	.00	.23	7.65	86.64	294.30	511.61	591.91	580.12	534.97
1.00	DISCHG	497.89	476.40	467.70	466.05	463.22	451.91	435.96	421.85	411.16	403.53
2.00	DISCHG	395.31	378.57	348.62	313.35	282.77	259.80	242.78	228.11	214.29	201.11
3.00	DISCHG	188.73	175.53	160.30	145.93	133.99	124.78	117.98	113.09	109.64	107.23
4.00	DISCHG	105.56	104.41	103.63	103.10	102.74	102.51	102.36	102.28	102.24	102.23
5.00	DISCHG	102.24	102.27	102.32	102.37	102.43	102.50	102.57	102.65	102.73	102.82
6.00	DISCHG	102.90	103.00	103.09	103.19	103.29	103.39	103.49	103.59	103.70	103.81
7.00	DISCHG	103.91	104.01	104.12	104.23	104.34	104.45	104.56	104.67	104.78	104.88
8.00	DISCHG	104.99	105.10	105.21	105.31	105.42	105.53	105.63	105.73	105.83	105.94
9.00	DISCHG	106.04	106.14	106.24	106.33	106.43	106.52	106.62	106.71	106.80	106.89
10.00	DISCHG	106.98	107.06	107.14	107.23	107.31	107.39	107.46	107.54	107.61	107.68
11.00	DISCHG	107.74	107.81	107.87	107.93	107.99	108.05	108.10	108.15	108.20	108.24
12.00	DISCHG	108.28	108.32	108.35	108.38	108.41	108.44	108.46	108.48	108.49	108.50
13.00	DISCHG	108.51	108.52	108.52	108.51	108.51	108.50	108.49	108.47	108.46	108.43
14.00	DISCHG	108.41	108.38	108.35	108.31	108.27	108.22	108.18	108.13	108.07	108.02
15.00	DISCHG	107.96	107.90	107.83	107.76	107.68	107.61	107.53	107.44	107.35	107.26
16.00	DISCHG	107.17	107.07	106.97	106.87	106.76	106.65	106.54	106.42	106.30	106.17
17.00	DISCHG	106.03	105.88	105.72	105.56	105.38	105.20	105.00	104.80	104.59	104.37
18.00	DISCHG	104.14	103.91	103.66	103.40	103.15	102.88	102.60	102.32	102.03	101.74
19.00	DISCHG	101.43	101.13	100.81	100.49	100.16	99.83	99.50	99.15	98.81	98.45
20.00	DISCHG	98.10	97.74	97.37	97.00	96.63	96.25	95.87	95.49	95.10	94.71
21.00	DISCHG	94.31	93.92	93.31	92.52	91.63	90.66	89.64	88.59	87.53	86.47
22.00	DISCHG	85.40	84.34	83.29	82.24	81.21	80.20	79.19	78.21	77.23	76.27
23.00	DISCHG	75.33	74.39	73.47	72.57	71.68	70.79	69.92	69.07	68.22	67.39
24.00	DISCHG	66.57	65.76	64.96	64.17	63.40	62.63	61.87	61.12	60.38	59.66
25.00	DISCHG	58.94	58.23	57.53	56.83	56.15	55.47	54.80	54.14	53.49	52.85
26.00	DISCHG	52.21	51.59	50.96	50.35	49.74	49.14	48.55	47.96	47.38	46.81
27.00	DISCHG	46.24	45.74	45.27	44.84	44.42	44.03	43.63	43.25	42.87	42.50
28.00	DISCHG	42.13	41.76	41.39	41.03	40.67	40.30	39.94	39.58	39.22	38.86
29.00	DISCHG	38.51	38.15	37.80	37.44	37.09	36.74	25.23	17.33	11.90	8.17

RUNOFF VOLUME ABOVE BASEFLOW = 1.59 WATERSHED INCHES, 3443.63 CFS-HRS, 284.58 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION DIVERT CROSS SECTION 100

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.74	134.39	5857.57	
13.10	62.72*	5856.33	* FIRST POINT OF FLAT PEAK

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.74	463.90	5857.57	
13.10	45.80*	5856.33	* FIRST POINT OF FLAT PEAK

OPERATION REACH CROSS SECTION 39

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.95	128.91	5851.80	
13.30	62.72*	5851.55	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.57	248.98	(RUNOFF)

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

OPERATION RUNOFF CROSS SECTION 28

*** WARNING-MAIN TIME INCREMENT MAY BE TOO LARGE.
COMPUTED PEAK(208.51) AT XSECTION 28 EXCEEDS MAX. ADJACENT HYDROGRAPH COORDINATE BY 5 %.

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.54	208.51	(RUNOFF)

TIME(HRS) FIRST HYDROGRAPH POINT = .00 HOURS TIME INCREMENT = .10 HOURS DRAINAGE AREA = .11 SQ.MI.

.00	DISCHG	.00	.00	.81	18.78	93.91	198.34	189.78	125.60	85.05	64.43
1.00	DISCHG	54.72	51.07	49.73	49.00	44.34	36.72	32.11	30.43	29.86	29.46
2.00	DISCHG	27.30	19.83	8.93	3.17	1.12	.38	.12	.02		

OPERATION ADDHYD CROSS SECTION 28

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.62	414.59	5925.51

OPERATION RESVOR STRUCTURE 40

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.01	147.98	5930.98

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

.00	DISCHG	.00	.00	.24	6.08	41.02	65.01	94.43	121.63	138.53	146.13
1.00	DISCHG	147.95	146.94	144.80	142.31	139.60	136.32	132.21	127.50	122.68	118.04
2.00	DISCHG	113.62	109.03	103.35	95.58	87.09	78.68	70.82	63.62	57.12	51.26
3.00	DISCHG	27.22	11.30	4.69	1.95	.81	.34	.14	.06	.02	.01
4.00	DISCHG	.00									

RUNOFF VOLUME ABOVE BASEFLOW = 1.79 WATERSHED INCHES, 284.66 CFS-HRS, 23.52 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)
.52	77.13	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.92	165.86	5872.86

OPERATION RUNOFF CROSS SECTION 26

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.53	234.67	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 27

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.54	385.80	5873.41

*** 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)	
.65	745.13	5853.74	
13.10	45.80*	5851.46	* FIRST POINT OF FLAT PEAK

OPERATION RESVOR STRUCTURE 29

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
2.40	271.60	5855.13	
13.70	45.77*	5846.53	* 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	.44	8.26	41.79	97.49	144.97	172.66	192.78	207.63
1.00	DISCHG	215.18	221.97	228.30	234.38	240.17	245.52	250.33	254.64	258.56	262.15
2.00	DISCHG	265.43	268.21	270.21	271.30	271.60	271.26	270.43	269.22	267.70	265.92
3.00	DISCHG	263.72	261.01	257.96	254.69	251.26	247.73	244.16	240.58	237.00	233.46
4.00	DISCHG	229.95	226.48	223.07	219.71	216.41	213.17	209.98	206.85	202.56	196.60
5.00	DISCHG	190.86	185.33	180.00	174.88	169.94	165.19	160.62	156.21	147.97	138.63
6.00	DISCHG	130.48	122.86	115.89	109.53	103.73	98.43	93.59	88.26	80.00	73.23
7.00	DISCHG	67.69	63.17	59.47	56.45	53.98	51.98	50.35	49.02	47.95	47.09
8.00	DISCHG	46.39	45.83	45.39	45.04	44.77	44.56	44.40	44.29	44.20	44.15
9.00	DISCHG	44.12	44.10	44.11	44.12	44.15	44.18	44.22	44.26	44.31	44.36
10.00	DISCHG	44.41	44.47	44.53	44.58	44.64	44.70	44.75	44.81	44.86	44.92
11.00	DISCHG	44.97	45.02	45.08	45.13	45.17	45.22	45.27	45.31	45.36	45.40
12.00	DISCHG	45.44	45.47	45.51	45.54	45.57	45.60	45.63	45.65	45.67	45.69
13.00	DISCHG	45.71	45.73	45.74	45.75	45.76	45.76	45.77	45.77	45.77	45.76
14.00	DISCHG	45.76	45.75	45.74	45.72	45.71	45.69	45.67	45.64	45.62	45.59
15.00	DISCHG	45.56	45.53	45.49	45.45	45.41	45.37	45.32	45.27	45.22	45.17
16.00	DISCHG	45.11	45.06	45.00	44.93	44.87	44.80	44.73	44.66	44.58	44.51
17.00	DISCHG	44.42	44.34	44.25	44.16	44.06	43.95	43.84	43.72	43.60	43.47
18.00	DISCHG	43.34	43.20	43.05	42.90	42.74	42.58	42.41	42.23	42.05	41.87
19.00	DISCHG	41.67	41.48	41.28	41.07	40.86	40.64	40.42	40.20	39.97	39.73
20.00	DISCHG	39.50	39.26	39.01	38.76	38.51	38.26	38.00	37.74	37.47	37.20
21.00	DISCHG	36.93	36.66	36.37	36.04	35.67	35.24	34.75	34.22	33.65	33.05
22.00	DISCHG	32.41	31.75	31.08	30.38	29.41	28.19	27.13	26.19	25.32	24.51
23.00	DISCHG	23.75	23.01	22.29	21.60	20.92	20.25	19.59	18.95	18.32	17.69
24.00	DISCHG	17.08	16.47	15.88	15.29	14.71	14.13	13.57	13.01	12.46	11.92
25.00	DISCHG	11.38	10.85	10.33	9.81	9.30	8.80	8.30	7.81	7.33	6.85
26.00	DISCHG	6.38	5.91	5.45	4.99	4.54	4.09	3.65	3.22	2.79	2.36
27.00	DISCHG	1.94	1.53	1.14	.79	.53	.35	.24	.16	.10	.07
28.00	DISCHG	.05	.03	.02	.01	.01	.01	.00			

RUNOFF VOLUME ABOVE BASEFLOW = 1.04 WATERSHED INCHES, 2068.83 CFS-HRS, 170.97 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION ADDHYD CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.18	383.56	5817.06
13.59	108.48	5816.03

*** 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)
.51	108.30	(RUNOFF)
1.15	22.57	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 25

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.97	389.34	5831.42
13.72	108.48	5830.72

OPERATION RUNOFF CROSS SECTION 32

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.66	99.40	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.33	409.26	5831.72
1.95	410.83	5831.73
13.72	108.48	5830.92

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

OPERATION RUNOFF CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.54	273.66	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.64	418.84	5831.75	
1.31	468.35	5831.88	
1.90	446.97	5831.83	
13.80	108.48*	5830.92	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 18

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.69	83.51	(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)
.54	128.06	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 16

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.54	128.81	5852.14
1.05	79.71	5851.53

OPERATION RUNOFF CROSS SECTION 34

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.62	63.35	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.61	154.86	5848.72

OPERATION ADDHYD CROSS SECTION 33

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.57	272.73	5848.99

OPERATION RUNOFF CROSS SECTION 14

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.61	92.10	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 14

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.74	244.40	5852.03

OPERATION ADDHYD CROSS SECTION 24

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
1.13	658.02	5832.39	
13.80	108.48*	5830.92	* FIRST POINT OF FLAT PEAK

OPERATION RESVOR STRUCTURE 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.54	615.00	5823.09
14.05	108.47	5817.30

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

.00	DISCHG	.00	.00	.24	7.87	58.21	169.53	315.51	406.16	470.60	519.18
1.00	DISCHG	544.33	565.08	582.19	595.76	607.86	614.37	613.80	608.97	602.39	596.83
2.00	DISCHG	591.63	584.83	574.48	560.22	543.72	526.51	504.65	481.99	462.26	445.12
3.00	DISCHG	430.21	417.16	405.66	395.06	385.14	375.69	366.56	357.69	349.10	340.88
4.00	DISCHG	329.79	320.30	312.44	305.76	299.96	294.81	290.16	285.90	281.93	278.19
5.00	DISCHG	274.51	270.55	266.11	261.24	256.14	250.93	245.74	240.62	235.17	230.02
6.00	DISCHG	224.73	218.64	211.69	204.25	196.71	189.34	182.34	175.77	169.69	163.98
7.00	DISCHG	158.15	151.90	145.54	139.44	133.89	129.01	124.81	121.27	118.32	115.87
8.00	DISCHG	113.86	112.22	110.89	109.81	108.94	108.25	107.70	107.27	106.93	106.67
9.00	DISCHG	106.48	106.34	106.25	106.19	106.16	106.15	106.16	106.19	106.23	106.28
10.00	DISCHG	106.33	106.40	106.47	106.54	106.61	106.69	106.77	106.85	106.93	107.01
11.00	DISCHG	107.08	107.16	107.24	107.31	107.39	107.46	107.53	107.60	107.67	107.73
12.00	DISCHG	107.80	107.86	107.92	107.97	108.03	108.08	108.12	108.17	108.21	108.25
13.00	DISCHG	108.29	108.32	108.35	108.38	108.40	108.42	108.44	108.45	108.46	108.47
14.00	DISCHG	108.47	108.47	108.47	108.46	108.45	108.44	108.42	108.40	108.38	108.35
15.00	DISCHG	108.32	108.29	108.25	108.21	108.17	108.12	108.07	108.02	107.96	107.90
16.00	DISCHG	107.83	107.77	107.69	107.62	107.54	107.46	107.38	107.29	107.20	107.10
17.00	DISCHG	107.00	106.90	106.80	106.69	106.57	106.45	106.33	106.19	106.05	105.91
18.00	DISCHG	105.75	105.59	105.42	105.24	105.05	104.85	104.64	104.43	104.21	103.98
19.00	DISCHG	103.74	103.50	103.24	102.98	102.71	102.44	102.16	101.87	101.57	101.27
20.00	DISCHG	100.96	100.65	100.33	100.01	99.68	99.34	99.00	98.65	98.30	97.95
21.00	DISCHG	97.59	97.22	96.86	96.48	96.11	95.71	95.29	94.81	94.27	93.66
22.00	DISCHG	92.98	92.23	91.43	90.58	89.69	88.77	87.80	86.71	85.52	84.00
23.00	DISCHG	82.46	81.13	79.92	78.80	77.74	76.72	75.73	74.77	73.83	72.91
24.00	DISCHG	72.00	71.11	70.24	69.37	68.52	67.69	66.86	66.04	65.24	64.45
25.00	DISCHG	63.67	62.90	62.13	61.38	60.64	59.91	59.19	58.47	57.77	57.07
26.00	DISCHG	56.38	55.70	55.03	54.37	53.72	53.07	52.43	51.80	51.18	50.56
27.00	DISCHG	49.95	49.35	48.75	48.16	47.59	47.03	46.51	46.01	45.51	45.02
28.00	DISCHG	44.55	44.10	43.66	43.24	42.84	42.44	42.06	41.68	41.31	40.94
29.00	DISCHG	40.57	40.21	39.84	39.48	39.12	38.77	38.41	38.05	37.70	36.38

RUNOFF VOLUME ABOVE BASEFLOW = 1.60 WATERSHED INCHES, 4532.75 CFS-HRS, 374.59 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)
.50	76.40	(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)
.51	190.28	(RUNOFF)
1.15	39.07	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.53	237.82	5797.10

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.43	655.00	5798.45
14.05	108.47	5795.33

OPERATION RUNOFF CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.60	157.84	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 12

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.64	687.84	5798.54
1.38	697.49	5798.57
14.05	108.47	5795.33

*** 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)
.59	97.19	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.73	750.94	5772.61	
1.43	724.80	5772.56	
14.10	108.47*	5770.96	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 8

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.61	95.46	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 6

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.72	822.94	5772.75	
1.40	754.93	5772.62	
14.10	108.47*	5770.96	* FIRST POINT OF FLAT PEAK

OPERATION RUNOFF CROSS SECTION 9

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.58	72.07	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 8

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
.70	871.74	(NULL)	
1.38	774.89	(NULL)	
14.10	108.47*	(NULL)	* FIRST POINT OF FLAT PEAK

OPERATION RESVOR STRUCTURE 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.13	671.50	5776.57
14.41	108.46	5771.97

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

.00	DISCHG	.00	.00	.00	.73	16.02	96.00	189.29	303.44	377.94	430.65

1.00	DISCHG	472.78	508.64	540.41	569.58	595.41	615.63	631.98	644.72	654.64	662.33
2.00	DISCHG	668.05	671.31	670.56	665.08	655.98	644.80	632.42	619.01	604.49	589.06
3.00	DISCHG	571.35	553.85	536.82	520.41	504.69	489.70	475.39	461.75	448.71	436.23
4.00	DISCHG	424.29	412.65	401.18	390.08	379.49	369.46	360.02	351.18	342.92	335.19
5.00	DISCHG	327.98	321.22	312.88	304.82	297.38	290.38	283.72	277.32	271.14	265.13
6.00	DISCHG	259.25	253.48	247.73	241.84	235.72	229.34	222.78	216.10	209.45	203.36
7.00	DISCHG	197.30	191.30	185.28	179.22	173.13	167.09	161.18	155.50	150.11	145.09
8.00	DISCHG	140.45	136.20	132.36	128.91	125.84	123.11	120.70	118.59	116.75	115.15
9.00	DISCHG	113.76	112.57	111.55	110.68	109.88	108.64	107.81	107.26	106.90	106.67
10.00	DISCHG	106.53	106.45	106.42	106.43	106.45	106.49	106.55	106.61	106.67	106.75
11.00	DISCHG	106.82	106.89	106.97	107.05	107.12	107.20	107.27	107.35	107.42	107.49
12.00	DISCHG	107.56	107.63	107.70	107.76	107.82	107.88	107.94	107.99	108.04	108.09
13.00	DISCHG	108.14	108.18	108.22	108.26	108.29	108.33	108.35	108.38	108.40	108.42
14.00	DISCHG	108.43	108.45	108.46	108.46	108.46	108.46	108.46	108.45	108.44	108.42
15.00	DISCHG	108.40	108.38	108.36	108.33	108.30	108.26	108.22	108.18	108.13	108.09
16.00	DISCHG	108.03	107.98	107.92	107.86	107.79	107.72	107.65	107.57	107.49	107.41
17.00	DISCHG	107.32	107.23	107.14	107.04	106.94	106.84	106.73	106.62	106.50	106.37
18.00	DISCHG	106.24	106.10	105.96	105.81	105.65	105.48	105.30	105.12	104.92	104.72
19.00	DISCHG	104.51	104.30	104.07	103.84	103.60	103.35	103.09	102.83	102.56	102.28
20.00	DISCHG	101.99	101.70	101.40	101.10	100.79	100.47	100.15	99.82	99.49	99.15
21.00	DISCHG	98.81	98.46	98.11	97.75	97.39	97.03	96.66	96.27	95.86	95.42
22.00	DISCHG	94.94	94.40	93.80	93.15	92.43	91.67	90.86	90.00	89.09	88.10
23.00	DISCHG	86.99	85.74	84.42	83.12	81.87	80.67	79.53	78.43	77.37	76.35
24.00	DISCHG	75.36	74.39	73.45	72.52	71.62	70.73	69.85	68.99	68.15	67.31
25.00	DISCHG	66.49	65.68	64.88	64.09	63.32	62.55	61.79	61.04	60.31	59.58
26.00	DISCHG	58.86	58.15	57.45	56.75	56.07	55.40	54.73	54.07	53.42	52.78
27.00	DISCHG	52.14	51.51	50.89	50.28	49.72	49.19	48.65	48.12	47.59	47.06
28.00	DISCHG	46.55	46.05	45.55	45.08	44.61	44.16	43.73	43.31	42.89	42.49
29.00	DISCHG	42.10	41.72	41.34	40.96	40.59	40.22	39.86	39.50	39.13	38.78

RUNOFF VOLUME ABOVE BASEFLOW = 1.58 WATERSHED INCHES, 4946.97 CFS-HRS, 408.82 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)
.58	109.37	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.02	687.80	5729.81
14.41	108.46	5728.03

OPERATION RUNOFF CROSS SECTION 3

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.57	101.45	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 4

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.98	706.84	5729.85
14.41	108.46	5728.03

*** 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)
.59	178.29	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 2

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.72	586.71	5725.05
1.95	743.52	5726.17
14.41	108.46	5721.75

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

OPERATION RUNOFF CROSS SECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.57	51.32	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.65	643.46	5719.10
1.44	728.47	5719.51
1.95	752.38	5719.62
14.41	108.46	5715.55

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

.00	DISCHG	.00	.00	.00	7.67	131.19	475.17	626.16	621.80	606.22	609.88
1.00	DISCHG	628.37	655.95	685.36	713.41	727.17	725.90	728.72	736.46	744.79	751.63
2.00	DISCHG	751.33	732.96	699.40	675.70	659.90	646.20	632.88	619.12	604.50	589.06
3.00	DISCHG	571.35	553.85	536.82	520.41	504.69	489.70	475.39	461.75	448.71	436.23

4.00	DISCHG	424.29	412.65	401.18	390.08	379.49	369.46	360.02	351.18	342.92	335.19
5.00	DISCHG	327.98	321.22	312.88	304.82	297.38	290.38	283.72	277.32	271.14	265.13
6.00	DISCHG	259.25	253.48	247.73	241.84	235.72	229.34	222.78	216.10	209.45	203.36
7.00	DISCHG	197.30	191.30	185.28	179.22	173.13	167.09	161.18	155.50	150.11	145.09
8.00	DISCHG	140.45	136.20	132.36	128.91	125.84	123.11	120.70	118.59	116.75	115.15
9.00	DISCHG	113.76	112.57	111.55	110.68	109.88	108.64	107.81	107.26	106.90	106.67
10.00	DISCHG	106.53	106.45	106.42	106.43	106.45	106.49	106.55	106.61	106.67	106.75
11.00	DISCHG	106.82	106.89	106.97	107.05	107.12	107.20	107.27	107.35	107.42	107.49
12.00	DISCHG	107.56	107.63	107.70	107.76	107.82	107.88	107.94	107.99	108.04	108.09
13.00	DISCHG	108.14	108.18	108.22	108.26	108.29	108.33	108.35	108.38	108.40	108.42
14.00	DISCHG	108.43	108.45	108.46	108.46	108.46	108.46	108.46	108.45	108.44	108.42
15.00	DISCHG	108.40	108.38	108.36	108.33	108.30	108.26	108.22	108.18	108.13	108.09
16.00	DISCHG	108.03	107.98	107.92	107.86	107.79	107.72	107.65	107.57	107.49	107.41
17.00	DISCHG	107.32	107.23	107.14	107.04	106.94	106.84	106.73	106.62	106.50	106.37
18.00	DISCHG	106.24	106.10	105.96	105.81	105.65	105.48	105.30	105.12	104.92	104.72
19.00	DISCHG	104.51	104.30	104.07	103.84	103.60	103.35	103.09	102.83	102.56	102.28
20.00	DISCHG	101.99	101.70	101.40	101.10	100.79	100.47	100.15	99.82	99.49	99.15
21.00	DISCHG	98.81	98.46	98.11	97.75	97.39	97.03	96.66	96.27	95.86	95.42
22.00	DISCHG	94.94	94.40	93.80	93.15	92.43	91.67	90.86	90.00	89.09	88.10
23.00	DISCHG	86.99	85.74	84.42	83.12	81.87	80.67	79.53	78.43	77.37	76.35
24.00	DISCHG	75.36	74.39	73.45	72.52	71.62	70.73	69.85	68.99	68.15	67.31
25.00	DISCHG	66.49	65.68	64.88	64.09	63.32	62.55	61.79	61.04	60.31	59.58
26.00	DISCHG	58.86	58.15	57.45	56.75	56.07	55.40	54.73	54.07	53.42	52.78
27.00	DISCHG	52.14	51.51	50.89	50.28	49.72	49.19	48.65	48.12	47.59	47.06
28.00	DISCHG	46.55	46.05	45.55	45.08	44.61	44.16	43.73	43.31	42.89	42.49
29.00	DISCHG	42.10	41.72	41.34	40.96	40.59	40.22	39.86	39.50	39.13	38.78

RUNOFF VOLUME ABOVE BASEFLOW = 1.56 WATERSHED INCHES, 5253.36 CFS-HRS, 434.14 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	2.22	2.00	1.71	---	.58	140.91	1677.5
XSECTION 58	RUNOFF	.06	8	3	.10	.0	2.22	2.00	1.71	---	.55	114.66	1820.0
XSECTION 56	REACH	.06	8	3	.10	.0	2.22	2.00	1.71	5930.90	.69	100.47	1594.7
XSECTION 56	RUNOFF	.15	8	3	.10	.0	2.22	2.00	1.72	---	.53	284.43	1921.8
XSECTION 56	ADDHYD	.21	8	3	.10	.0	2.22	2.00	1.71	5931.45	.57	335.78	1591.4
XSECTION 56	ADDHYD	.29	8	3	.10	.0	2.22	2.00	1.71	5931.83	.58	476.40	1614.9
STRUCTURE 30	RESVOR	.29	8	3	.10	.0	2.22	2.00	1.71	5928.15	1.00	163.26	553.4
XSECTION 54	REACH	.29	8	3	.10	.0	2.22	2.00	1.71	5880.84	1.19	162.54	551.0
XSECTION 54	RUNOFF	.12	8	3	.10	.0	2.22	2.00	1.33	---	.59	143.48	1226.4
XSECTION 54	ADDHYD	.41	8	3	.10	.0	2.22	2.00	1.60	5880.99	.65	228.13	553.7
XSECTION 44	REACH	2.47	8	3	.10	.0	2.22	2.00	1.62	5880.82	12.70*	108.53*	44.0
XSECTION 44	RUNOFF	.02	8	3	.10	.0	2.22	2.00	1.85	---	.50	49.41	2352.7
XSECTION 44	ADDHYD	2.49	8	3	.10	.0	2.22	2.00	1.62	5880.82	12.70*	108.53*	43.6
XSECTION 54	ADDHYD	2.90	8	3	.10	.0	2.22	2.00	1.62	5881.14	1.35	295.56	102.0
XSECTION 39	REACH	2.90	8	3	.10	.0	2.22	2.00	1.62	5852.39	1.71	284.65	98.2
XSECTION 38	RUNOFF	.09	8	3	.10	.0	2.22	2.00	1.80	---	.51	199.84	2271.0
XSECTION 36	REACH	.09	8	3	.10	.0	2.22	2.00	1.80	5859.05	.51	199.84	2271.0
XSECTION 39	REACH	.09	8	3	.10	.0	2.22	2.00	1.78	5851.95	.63	170.14	1933.4
XSECTION 36	RUNOFF	.10	8	3	.10	.0	2.22	2.00	1.72	---	.71	125.69	1269.5
XSECTION 36	ADDHYD	.19	8	3	.10	.0	2.22	2.00	1.75	5859.27	.64	289.80	1549.7
XSECTION 39	ADDHYD	3.09	8	3	.10	.0	2.22	2.00	1.62	5852.88	.72	414.41	134.3
XSECTION 42	RUNOFF	.08	8	3	.10	.0	2.22	2.00	1.28	---	.59	99.45	1183.9
XSECTION 40	REACH	.08	8	3	.10	.0	2.22	2.00	1.27	5862.89	.70	97.06	1155.5
XSECTION 39	REACH	.08	8	3	.10	.0	2.22	2.00	1.27	5851.58	.88	71.76	854.3
XSECTION 40	RUNOFF	.14	8	3	.10	.0	2.22	2.00	1.12	---	.72	105.82	750.5
XSECTION 40	ADDHYD	.22	8	3	.10	.0	2.22	2.00	1.18	5863.03	.81	165.74	736.6
XSECTION 39	ADDHYD	3.31	8	3	.10	.0	2.22	2.00	1.59	5853.36	.75	572.17	172.8
XSECTION 39	RUNOFF	.04	8	3	.10	.0	2.22	2.00	1.38	---	.52	69.30	1611.7
XSECTION 39	ADDHYD	3.35	8	3	.10	.0	2.22	2.00	1.59	5853.42	.74	598.28	178.4
XSECTION 100	DIVERT	.67	8	3	.10	.0	2.22	2.00	4.23	5857.57	.74	134.39	200.3
XSECTION 101	DIVERT	2.68	8	3	.10	.0	2.22	2.00	.93	5857.57	.74	463.90	172.9
XSECTION 39	REACH	.67	8	3	.10	.0	2.22	2.00	4.23	5851.80	.95	128.91	192.2

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	2.22	2.00	1.79	---	.57	248.98	1791.3
XSECTION 28	REACH	.14	8	3	.10	.0	2.22	2.00	1.78	5925.13	.68	246.20	1771.2
XSECTION 28	RUNOFF	.11	8	3	.10	.0	2.22	2.00	1.79	---	.54	208.51	1930.7
XSECTION 28	ADDHYD	.25	8	3	.10	.0	2.22	2.00	1.79	5925.51	.62	414.59	1678.5
STRUCTURE 40	RESVOR	.25	8	3	.10	.0	2.22	2.00	1.79	5930.98	1.01	147.98	599.1
XSECTION 27	REACH	.25	8	3	.10	.0	2.22	2.00	1.79	5872.82	1.01	147.98	599.1
XSECTION 27	RUNOFF	.04	8	3	.10	.0	2.22	2.00	1.87	---	.52	77.13	2203.6
XSECTION 27	ADDHYD	.28	8	3	.10	.0	2.22	2.00	1.80	5872.86	.92	165.86	588.2
XSECTION 26	RUNOFF	.11	8	3	.10	.0	2.22	2.00	1.87	---	.53	234.67	2153.0
XSECTION 27	ADDHYD	.39	8	3	.10	.0	2.22	2.00	1.82	5873.41	.54	385.80	986.7
XSECTION 26	REACH	.39	8	3	.10	.0	2.22	2.00	1.82	5868.10	.54	385.80	986.7
XSECTION 39	ADDHYD	3.07	8	3	.10	.0	2.22	2.00	1.04	5853.74	.65	745.13	242.4
STRUCTURE 29	RESVOR	3.07	8	3	.10	.0	2.22	2.00	1.04	5855.13	2.40	271.60	88.3
XSECTION 32	ADDHYD	3.74	8	3	.10	.0	2.22	2.00	1.61	5817.06	2.18	383.56	102.4
XSECTION 32	REACH	3.74	8	3	.10	.0	2.22	2.00	1.61	5817.06	2.32	383.05	102.3
XSECTION 25	RUNOFF	.05	8	3	.10	.0	2.22	2.00	1.73	---	.51	108.30	2166.0
XSECTION 25	ADDHYD	3.79	8	3	.10	.0	2.22	2.00	1.61	5831.42	1.97	389.34	102.6
XSECTION 32	RUNOFF	.08	8	3	.10	.0	2.22	2.00	1.53	---	.66	99.40	1197.5
XSECTION 24	ADDHYD	3.88	8	3	.10	.0	2.22	2.00	1.61	5831.73	1.95	410.83	105.9
XSECTION 24	REACH	3.88	8	3	.10	.0	2.22	2.00	1.61	5831.73	2.06	410.78	105.9
XSECTION 24	RUNOFF	.14	8	3	.10	.0	2.22	2.00	1.75	---	.54	273.66	1913.7
XSECTION 24	ADDHYD	4.02	8	3	.10	.0	2.22	2.00	1.61	5831.88	1.31	468.35	116.5
XSECTION 18	RUNOFF	.10	8	3	.10	.0	2.22	2.00	1.18	---	.68	83.51	852.1
XSECTION 16	REACH	.10	8	3	.10	.0	2.22	2.00	1.18	5850.96	1.12	49.17	501.7
XSECTION 16	RUNOFF	.06	8	3	.10	.0	2.22	2.00	1.79	---	.54	128.06	1970.1
XSECTION 16	ADDHYD	.16	8	3	.10	.0	2.22	2.00	1.42	5852.14	.54	128.81	790.2
XSECTION 34	RUNOFF	.07	8	3	.10	.0	2.22	2.00	1.14	---	.62	63.35	945.5
XSECTION 33	REACH	.07	8	3	.10	.0	2.22	2.00	1.14	5848.41	.78	53.65	800.7
XSECTION 33	RUNOFF	.08	8	3	.10	.0	2.22	2.00	1.61	---	.55	130.71	1613.7
XSECTION 33	ADDHYD	.15	8	3	.10	.0	2.22	2.00	1.40	5848.72	.61	154.86	1046.4
XSECTION 33	ADDHYD	.31	8	3	.10	.0	2.22	2.00	1.41	5848.99	.57	272.73	876.9
XSECTION 14	REACH	.31	8	3	.10	.0	2.22	2.00	1.41	5851.53	.87	186.11	598.4
XSECTION 14	RUNOFF	.07	8	3	.10	.0	2.22	2.00	1.49	---	.61	92.10	1354.4
XSECTION 14	ADDHYD	.38	8	3	.10	.0	2.22	2.00	1.42	5852.03	.74	244.40	644.9

XSECTION	24	ADDHYD	4.40	B	3	.10	.0	2.22	2.00	1.60	5832.39	1.13	658.02	149.5
STRUCTURE	2	RESVOR	4.40	B	3	.10	.0	2.22	2.00	1.60	5823.09	1.54	615.00	139.8

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 12	REACH	4.40	8	3	.10	.0	2.22	2.00	1.60	5798.35	1.54	615.00	139.8
XSECTION 11	RUNOFF	.03	8	3	.10	.0	2.22	2.00	1.88	---	.50	76.40	2387.5
XSECTION 10	REACH	.03	8	3	.10	.0	2.22	2.00	1.86	5806.17	.61	71.48	2233.8
XSECTION 10	RUNOFF	.09	8	3	.10	.0	2.22	2.00	1.76	---	.51	190.28	2212.6
XSECTION 12	ADDHYD	.12	8	3	.10	.0	2.22	2.00	1.78	5797.10	.53	237.82	2015.4
XSECTION 12	ADDHYD	4.52	8	3	.10	.0	2.22	2.00	1.60	5798.45	1.43	655.00	145.0
XSECTION 12	RUNOFF	.10	8	3	.10	.0	2.22	2.00	1.64	---	.60	157.84	1547.4
XSECTION 12	ADDHYD	4.62	8	3	.10	.0	2.22	2.00	1.60	5798.57	1.38	697.49	151.0
XSECTION 6	REACH	4.62	8	3	.10	.0	2.22	2.00	1.60	5772.51	1.48	697.48	151.0
XSECTION 6	RUNOFF	.08	8	3	.10	.0	2.22	2.00	1.25	---	.59	97.19	1157.1
XSECTION 6	ADDHYD	4.70	8	3	.10	.0	2.22	2.00	1.59	5772.61	.73	750.94	159.6
XSECTION 8	RUNOFF	.08	8	3	.10	.0	2.22	2.00	1.28	---	.61	95.46	1136.5
XSECTION 6	ADDHYD	4.79	8	3	.10	.0	2.22	2.00	1.59	5772.75	.72	822.94	171.9
XSECTION 9	RUNOFF	.05	8	3	.10	.0	2.22	2.00	1.44	---	.58	72.07	1386.0
XSECTION 8	ADDHYD	4.84	8	3	.10	.0	2.22	2.00	1.59	---	.70	871.74	180.1
STRUCTURE 1	RESVOR	4.84	8	3	.10	.0	2.22	2.00	1.58	5776.57	2.13	671.50	138.7
XSECTION 4	REACH	4.84	8	3	.10	.0	2.22	2.00	1.58	5729.78	2.13	671.50	138.7
XSECTION 4	RUNOFF	.08	8	3	.10	.0	2.22	2.00	1.37	---	.58	109.37	1302.1
XSECTION 4	ADDHYD	4.92	8	3	.10	.0	2.22	2.00	1.58	5729.81	2.02	687.80	139.7
XSECTION 3	RUNOFF	.09	8	3	.10	.0	2.22	2.00	1.27	---	.57	101.45	1193.5
XSECTION 4	ADDHYD	5.01	8	3	.10	.0	2.22	2.00	1.57	5729.85	1.98	706.84	141.1
XSECTION 2	REACH	5.01	8	3	.10	.0	2.22	2.00	1.57	5725.91	1.98	706.84	141.1
XSECTION 2	RUNOFF	.16	8	3	.10	.0	2.22	2.00	1.27	---	.59	178.29	1159.3
XSECTION 2	ADDHYD	5.16	8	3	.10	.0	2.22	2.00	1.57	5726.17	1.95	743.52	144.0
XSECTION 2	REACH	5.16	8	3	.10	.0	2.22	2.00	1.57	5726.17	1.95	743.52	144.0
XSECTION 1	RUNOFF	.04	8	3	.10	.0	2.22	2.00	1.27	---	.57	51.32	1193.5
XSECTION 1	ADDHYD	5.21	8	3	.10	.0	2.22	2.00	1.56	5719.62	1.95	752.38	144.5

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)	ATT-KIN COEFF (C)	STOR-AGE (HR)	KINE-MATIC (HR)
ALTERNATE		1	STORM	1															
56	2700	109	.5	100	.7	332	.6	0	1.71	.10	1	1.09	1.53	.096	.928	329	.71?	.20	.09
54	2380	163	1.0	163	1.2	221	.6	0	1.71	.10	1	.830	1.49	.019	.996	339	.69?	.20	.09
44	700	109	12.7	109	12.7	109	12.7	0	1.62*	.10	0	1.09	1.56	.000	1.000	78	1.00?	.00	.00
39	3400	295	1.3	285	1.7	---	---	0	1.62*	.10	1	.203	1.50	.009	.965	969	.31	.40	.27
36	1080	200	.5	200	.5	---	---	0	1.80	.10	0	2.14	1.39	.028	1.000	100	1.00?	.00	.00
39	1050	200	.5	166	.6	413	.7	0	1.80	.10	1	.192	1.52	.143	.833	336	.70?	.10	.10
40	3120	99	.6	97	.7	---	---	0	1.28	.10	1	1.91	1.63	.041	.980	218	.90?	.10	.06
39	1450	97	.7	71	.9	561	.7	0	1.27	.10	1	.176	1.54	.196	.736	576	.48	.20	.17
39	1200	134	.7	128	.9	---	---	0	4.23	.10	1	.183	1.53	.001	.958	433	.59	.20	.12
28	1800	245	.6	244	.7	410	.6	0	1.79	.10	1	1.30	1.43	.049	.995	200	.95?	.10	.06
27	1400	148	1.0	148	1.0	166	.9	0	1.79	.10	0	1.42	1.49	.006	1.000	142	1.00?	.00	.00
26	1000	371	.5	371	.5	---	---	0	1.82	.10	0	1.19	1.39	.010	1.000	120	1.00?	.00	.00
32	1250	384	2.2	383	2.3	---	---	0	1.61	.10	1	.214	1.48	.002	.999	347	.68?	.10	.10
24	1250	411	1.9	410	2.1	468	1.3	0	1.61	.10	1	.244	1.48	.002	.999	306	.74?	.20	.08
16	3100	83	.7	49	1.1	123	.5	0	1.18	.10	1	.388	1.37	.469	.591	1353	.23	.30	.40
33	2700	63	.6	53	.8	155	.6	0	1.14	.10	1	.953	1.59	.083	.853	376	.65	.20	.11
14	2800	271	.6	186	.9	241	.7	0	1.41	.10	1	.397	1.37	.217	.687	898	.33	.30	.26
12	1350	614	1.5	614	1.5	---	---	0	1.60	.10	0	4.88	1.31	.001	1.000	68	1.00?	.00	.00
10	2300	76	.5	71	.6	---	---	0	1.88	.10	1	2.94	1.35	.100	.931	246	.84?	.10	.07
6	1400	697	1.4	697	1.5	745	.7	0	1.60	.10	1	.325	1.55	.001	1.000	181	1.00?	.10	.05
4	2100	671	2.1	671	2.1	688	2.0	0	1.58	.10	0	3.58	1.43	.000	1.000	85	1.00?	.00	.00
2	500	707	2.0	707	2.0	742	2.0	0	1.57	.10	0	5.33	1.28	.000	1.000	25	1.00?	.00	.00
2	1120	742	2.0	742	2.0	---	---	0	1.57	.10	0	5.28	1.28	.001	1.000	55	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		147.98
STRUCTURE 30	.29	
ALTERNATE 1		163.26
STRUCTURE 29	3.07	
ALTERNATE 1		271.60
STRUCTURE 2	4.40	
ALTERNATE 1		615.00
STRUCTURE 1	4.84	
ALTERNATE 1		671.50
XSECTION 1	5.21	
ALTERNATE 1		752.38
XSECTION 2	5.16	
ALTERNATE 1		743.52
XSECTION 3	.09	
ALTERNATE 1		101.45
XSECTION 4	5.01	
ALTERNATE 1		706.84
XSECTION 6	4.79	
ALTERNATE 1		822.94
XSECTION 8	4.84	
ALTERNATE 1		871.74
XSECTION 9	.05	
ALTERNATE 1		72.07
XSECTION 10	.09	
ALTERNATE 1		190.28
XSECTION 11	.03	
ALTERNATE 1		76.40

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		697.49
XSECTION 14	.38	
ALTERNATE 1		244.40
XSECTION 16	.16	
ALTERNATE 1		128.81
XSECTION 18	.10	
ALTERNATE 1		83.51
XSECTION 24	4.40	
ALTERNATE 1		658.02
XSECTION 25	3.79	
ALTERNATE 1		389.34
XSECTION 26	.39	
ALTERNATE 1		385.80
XSECTION 27	.39	
ALTERNATE 1		385.80
XSECTION 28	.25	
ALTERNATE 1		414.59
XSECTION 30	.14	
ALTERNATE 1		248.98
XSECTION 32	.08	
ALTERNATE 1		99.40
XSECTION 33	.31	
ALTERNATE 1		272.73
XSECTION 34	.07	
ALTERNATE 1		63.35
XSECTION 36	.19	
ALTERNATE 1		289.80

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		199.84
XSECTION 39	3.07	
ALTERNATE 1		745.13
XSECTION 40	.22	
ALTERNATE 1		165.74
XSECTION 42	.08	
ALTERNATE 1		99.45
XSECTION 44	2.49	
ALTERNATE 1		108.53
XSECTION 54	2.90	
ALTERNATE 1		295.56
XSECTION 56	.29	
ALTERNATE 1		476.40
XSECTION 58	.06	
ALTERNATE 1		114.66
XSECTION 60	.08	
ALTERNATE 1		140.91
XSECTION 100	.67	
ALTERNATE 1		134.39
XSECTION 101	2.68	
ALTERNATE 1		463.90

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

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

JOB TR-20                                                  SUMMARY   NOPLOTS
TITLE 001  WINDMILL GULCH  TR20 RUN  2 HR. 100 YR. STORM
TITLE      FUTURE CONDITIONS W/ AMC III          WG2FU1
 5 RAINFL 8                 0.0833
 8              0.0000      0.0087      0.0346      0.0744      0.1436
 8              0.2647      0.4810      0.6021      0.6713      0.7249
 8              0.7682      0.8028      0.8374      0.8720      0.8893
 8              0.9066      0.9170      0.9273      0.9377      0.9481
 8              0.9585      0.9689      0.9792      0.9896      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
```

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

```
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
```

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

```
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
```

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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
```

```
**********************80-B0 LIST OF INPUT DATA (CONTINUED)*********************

 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
 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
```

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

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
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         .01         .19       1.32      1
8                  5.79       13.47       25.41       41.00      63.42      2
8                 85.67       97.02      102.50      107.07     110.81      3
8                113.81      115.65      117.08      118.26     119.26      4
8                120.16      120.98      121.70      122.27     122.67      5
8                122.92      123.06      123.13      123.17     123.18      6
8                123.18      123.17      123.16      123.16     123.16      7
8                123.16      123.17      123.18      123.20     123.22      8
8                123.25      123.28      123.32      123.36     123.41      9
```

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

8	123.46	123.52	123.57	123.64	123.70	10
8	123.77	123.84	123.91	123.98	124.06	11
8	124.14	124.22	124.30	124.39	124.48	12
8	124.56	124.65	124.75	124.84	124.94	13
8	125.03	125.13	125.23	125.33	125.43	14
8	125.53	125.63	125.74	125.84	125.95	15
8	126.05	126.16	126.26	126.37	126.48	16
8	126.58	126.69	126.80	126.91	127.01	17
8	127.12	127.23	127.33	127.44	127.54	18
8	127.65	127.75	127.86	127.96	128.06	19
8	128.16	128.26	128.36	128.46	128.56	20
8	128.65	128.75	128.84	128.94	129.03	21
8	129.12	129.21	129.29	129.38	129.47	22
8	129.55	129.63	129.71	129.79	129.86	23
8	129.94	130.01	130.08	130.15	130.22	24
8	130.28	130.35	130.41	130.47	130.53	25
8	130.58	130.63	130.69	130.74	130.78	26
8	130.83	130.87	130.91	130.95	130.99	27
8	131.02	131.05	131.08	131.11	131.13	28
8	131.15	131.17	131.19	131.21	131.22	29
8	131.23	131.24	131.25	131.25	131.25	30
8	131.25	131.25	131.25	131.24	131.23	31
8	131.22	131.21	131.19	131.17	131.15	32
8	131.13	131.10	131.07	131.04	131.01	33
8	130.97	130.93	130.89	130.84	130.80	34
8	130.75	130.69	130.64	130.58	130.52	35
8	130.46	130.39	130.32	130.25	130.18	36
8	130.10	130.03	129.95	129.86	129.78	37
8	129.69	129.60	129.51	129.41	129.31	38
8	129.21	129.11	129.00	128.90	128.78	39
8	128.67	128.55	128.43	128.31	128.18	40
8	128.05	127.91	127.77	127.63	127.49	41
8	127.34	127.19	127.04	126.88	127.72	42
8	126.56	126.39	126.23	126.05	125.88	43
8	125.70	125.52	125.34	125.15	124.97	44
8	124.78	124.58	124.39	124.19	123.98	45
8	123.78	123.57	123.36	123.15	122.94	46
8	122.71	122.48	122.23	121.98	121.72	47
8	121.45	121.17	120.89	120.60	120.30	48
8	119.99	119.67	119.35	119.02	118.69	49
8	118.35	118.00	117.65	117.29	116.93	50
8	116.56	116.19	115.81	115.43	115.04	51
8	114.65	114.25	113.81	113.28	112.74	52
8	112.20	111.66	111.11	110.56	110.01	53
8	109.46	108.90	108.34	107.78	107.22	54
8	106.65	106.09	105.52	104.95	104.38	55

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

 8                103.82      103.25      102.68      102.11      101.55      56
 8                100.98      100.42       99.86       99.29       98.73      57
 8                 98.17       97.61       97.05       96.49       95.94      58
 8                 95.38       94.82       94.27       93.72       93.16      59
 8                 91.88       90.32       88.79       87.29       85.82      60
 9 ENDTBL
 7 INCREM 6                0.10
 7 COMPUT 7 060   001       0.0         3.05        1.0    8 3  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         .01         .19        1.32
8                  5.79       13.47       25.41       41.00       63.42
8                 85.67       97.02      102.50      107.07      110.81
```

8	113.81	115.65	117.08	118.26	119.26
8	120.16	120.98	121.70	122.27	122.67
8	122.92	123.06	123.13	123.17	123.18
8	123.18	123.17	123.16	123.16	123.16
8	123.16	123.17	123.18	123.20	123.22
8	123.25	123.28	123.32	123.36	123.41
8	123.46	123.52	123.57	123.64	123.70
8	123.77	123.84	123.91	123.98	124.06
8	124.14	124.22	124.30	124.39	124.48
8	124.56	124.65	124.75	124.84	124.94
8	125.03	125.13	125.23	125.33	125.43
8	125.53	125.63	125.74	125.84	125.95
8	126.05	126.16	126.26	126.37	126.48
8	126.58	126.69	126.80	126.91	127.01
8	127.12	127.23	127.33	127.44	127.54
8	127.65	127.75	127.86	127.96	128.06
8	128.16	128.26	128.36	128.46	128.56
8	128.65	128.75	128.84	128.94	129.03
8	129.12	129.21	129.29	129.38	129.47
8	129.55	129.63	129.71	129.79	129.86
8	129.94	130.01	130.08	130.15	130.22
8	130.28	130.35	130.41	130.47	130.53
8	130.58	130.63	130.69	130.74	130.78
8	130.83	130.87	130.91	130.95	130.99
8	131.02	131.05	131.08	131.11	131.13
8	131.15	131.17	131.19	131.21	131.22
8	131.23	131.24	131.25	131.25	131.25
8	131.25	131.25	131.25	131.24	131.23
8	131.22	131.21	131.19	131.17	131.15
8	131.13	131.10	131.07	131.04	131.01
8	130.97	130.93	130.89	130.84	130.80
8	130.75	130.69	130.64	130.58	130.52
8	130.46	130.39	130.32	130.25	130.18
8	130.10	130.03	129.95	129.86	129.78
8	129.69	129.60	129.51	129.41	129.31
8	129.21	129.11	129.00	128.90	128.78
8	128.67	128.55	128.43	128.31	128.18
8	128.05	127.91	127.77	127.63	127.49
8	127.34	127.19	127.04	126.88	127.72
8	126.56	126.39	126.23	126.05	125.88
8	125.70	125.52	125.34	125.15	124.97
8	124.78	124.58	124.39	124.19	123.98
8	123.78	123.57	123.36	123.15	122.94
8	122.71	122.48	122.23	121.98	121.72
8	121.45	121.17	120.89	120.60	120.30
8	119.99	119.67	119.35	119.02	118.69
8	118.35	118.00	117.65	117.29	116.93
8	116.56	116.19	115.81	115.43	115.04
8	114.65	114.25	113.81	113.28	112.74

```
8          112.20     111.66     111.11     110.56     110.01
8          109.46     108.90     108.34     107.78     107.22
8          106.65     106.09     105.52     104.95     104.38
8          103.82     103.25     102.68     102.11     101.55
8          100.98     100.42      99.86      99.29      98.73
8           98.17      97.61      97.05      96.49      95.94
8           95.38      94.82      94.27      93.72      93.16
8           91.88      90.32      88.79      87.29      85.82
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 =  3.05    RAIN DURATION=  1.00    RAIN TABLE NO.= 8    ANT. MOIST. COND= 3
       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)
               .67                         223.41                       (RUNOFF)


OPERATION RUNOFF   CROSS SECTION  58

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .64                         183.21                       (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)
               .62                         447.73                       (RUNOFF)


OPERATION ADDHYD   CROSS SECTION  56

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .66                         544.66                      5932.02


OPERATION ADDHYD   CROSS SECTION  56

          PEAK TIME(HRS)             PEAK DISCHARGE(CFS)          PEAK ELEVATION(FEET)
               .66                         767.82                      5932.64
```

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

.00	DISCHG	.00	.00	.49	19.06	120.24	395.08	731.48	755.65	598.67	445.36
1.00	DISCHG	337.45	277.35	227.53	171.72	125.73	95.08	80.39	74.35	72.00	71.00
2.00	DISCHG	70.57	60.03	34.00	15.28	6.17	2.36	.86	.28	.08	.01
3.00	DISCHG	.00									

RUNOFF VOLUME ABOVE BASEFLOW = 2.51 WATERSHED INCHES, 478.06 CFS-HRS, 39.51 ACRE-FEET; BASEFLOW = .00 CFS

OPERATION RESVOR STRUCTURE 30

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.19	231.18	5930.54

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

.00	DISCHG	.00	.00	.14	5.62	42.03	82.07	129.72	168.90	191.38	206.89
1.00	DISCHG	222.18	229.25	231.17	228.55	221.94	212.70	203.58	198.00	192.47	187.12
2.00	DISCHG	181.98	176.81	171.07	164.59	156.33	145.17	134.64	124.81	115.67	107.19
3.00	DISCHG	92.70	77.95	65.55	55.12	36.96	15.94	6.88	2.97	1.28	.55
4.00	DISCHG	.24	.10	.04	.02	.01	.00				

RUNOFF VOLUME ABOVE BASEFLOW = 2.51 WATERSHED INCHES, 478.57 CFS-HRS, 39.55 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)
.68	257.28	(RUNOFF)

OPERATION ADDHYD CROSS SECTION 54

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
.73	372.72	5881.31

*** 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 93.16 CFS, 70.98 % OF PEAK.

OPERATION REACH CROSS SECTION 44

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	
14.70	131.25*	5880.89	* FIRST POINT OF FLAT PEAK
20.89	127.73	5880.88	