

TECHNICAL ADDENDUM
TO THE
SAND CREEK MASTER DRAINAGE PLANNING STUDY

Prepared By

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Transmittal Letter

To COLO. SPGS. CITY ENG.
30 S. NEVADA AVE
COLORADO SPRINGS, CO
Attention BOB ADAMCZYK

Date NOV. 19, 1985
Project COLO. SPGS
SAND CREEK MASTER PLAN
Project Number P-CO-FA-01

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REVISED SAND CREEK MASTER PLAN
TECHNICAL ADDENDUM

(MAIN STEM - 100 YR EXISTING CONDITIONS)

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From LIZ KLEIN

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Section 2 Hydraulic Analysis: HEC-2 Printouts for Future
Development Condition, 100-Year Flows

TR-20/DESIGN POINT CORRELATION TABLE

TR/20 STRUCTURE NO.	HYDRAULIC DESIGN POINT
1	H3G <i>Hancock</i>
2	H2G
3	H1G
4	H1GE
5	H10A
6	H9A
7	H8A
8	H7A
9	H6A - <i>POWERS</i>
10	H5A - <i>Constitution</i>
11	H4A
12	H3A - <i>N. CANEFIELD</i>
13	H2A
14	H1A - <i>BARNES</i>
15	H16A
16	H13A
17	H12A
18	H11A
19	H10AW
20	H17A
21	H14A
22	H15A
23	H16W
24	H3F
25	H3FE
26	H2F
27	H1F
28	H1FE
29	H1E
30	H1EE
31	H2C
32	H2CE
33	H1C
34	H1FW
35	H2D
36	H1D
37	H1EW
38	H2B
39	H2BE
40	H2BW
41	H1B
42	H2CW
43	H4F

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

JOB TR-20		FULLPRINT			SUMMARY			
TITLE 001 SAND CREEK-SIMONS, LI & ASSOC.-6 HR.-5 & 100 YR								
5	RAINFL	7		0.125				
8			0.0	.0025	.005	.0075	.01	
8			.015	.020	.025	.030	.050	
8			.06	.10	.70	.75	.78	
8			.798	.820	.83	.84	.85	
8			.86	.865	.87	.885	.89	
8			.90	.905	.91	.915	.921	
8			.927	.933	.94	.945	.95	
8			.955	.96	.965	.970	.975	
8			.980	.983	.985	.988	.99	
8			.993	.995	.998	1.0	1.00	
9	ENDTBL							
6	RUNOFF	1	01	6 54.2450	79.3	4.75	1 1	1 1
6	RUNOFF	1	02	6 52.9580	79.3	4.33	1 1	1 1
6	RUNOFF	1	03	6 51.7730	79.2	3.96	1 1	1 1
6	RUNOFF	1	04	6 27.4110	77.5	3.96	1 1	1 1
6	RUNOFF	1	05	6 23.6800	81.0	2.47	1 1	1 1
6	RUNOFF	1	06	6 18.2650	80.2	2.39	1 1	1 1
6	RUNOFF	1	07	6 17.9830	80.1	2.32	1 1	1 1
6	RUNOFF	1	08	6 17.1290	79.7	2.20	1 1	1 1
6	RUNOFF	1	09	6 16.8430	79.8	2.14	1 1	1 1
6	RUNOFF	1	10	6 16.2790	79.6	2.06	1 1	1 1
6	RUNOFF	1	11	6 13.9000	78.5	1.92	1 1	1 1
6	RUNOFF	1	12	6 13.4110	78.3	1.89	1 1	1 1
6	RUNOFF	1	13	6 13.2790	78.3	1.85	1 1	1 1
6	RUNOFF	1	14	6 12.7470	77.8	1.81	1 1	1 1
6	RUNOFF	1	15	6 9.7120	75.7	1.63	1 1	1 1
6	RUNOFF	1	16	6 6.4690	75.2	1.46	1 1	1 1
6	RUNOFF	1	17	6 4.9770	74.9	1.27	1 1	1 1
6	RUNOFF	1	18	6 2.8540	71.5	0.91	1 1	1 1
6	RUNOFF	1	19	6 5.3690	83.7	1.76	1 1	1 1
6	RUNOFF	1	20	6 2.1520	82.1	0.71	1 1	1 1
6	RUNOFF	1	21	6 1.6900	74.6	0.80	1 1	1 1
6	RUNOFF	1	22	6 0.4970	73.6	0.34	1 1	1 1
6	RUNOFF	1	23	6 24.3620	81.2	3.26	1 1	1 1
6	RUNOFF	1	24	6 26.4340	78.0	3.66	1 1	1 1
6	RUNOFF	1	25	6 24.4930	76.9	3.66	1 1	1 1
6	RUNOFF	1	26	6 23.1820	76.8	3.09	1 1	1 1
6	RUNOFF	1	27	6 20.0540	76.6	2.63	1 1	1 1
6	RUNOFF	1	28	6 13.1320	76.5	2.63	1 1	1 1
6	RUNOFF	1	29	6 10.7150	75.8	1.96	1 1	1 1
6	RUNOFF	1	30	6 4.7300	75.3	1.52	1 1	1 1
6	RUNOFF	1	31	6 1.6890	76.1	0.93	1 1	1 1
6	RUNOFF	1	32	6 0.7780	76.5	0.80	1 1	1 1

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

6	RUNOFF	1	33	6	1.4905	74.9	1.15	1	1	1
6	RUNOFF	1	34	6	6.3120	76.9	2.50	1	1	1
6	RUNOFF	1	35	6	5.4630	75.9	1.75	1	1	1
6	RUNOFF	1	36	6	2.1472	73.9	1.29	1	1	1
6	RUNOFF	1	37	6	5.9850	76.1	1.96	1	1	1
6	RUNOFF	1	38	6	5.4500	75.8	1.41	1	1	1
6	RUNOFF	1	39	6	3.9650	76.2	1.41	1	1	1
6	RUNOFF	1	40	6	1.4850	74.9	1.25	1	1	1
6	RUNOFF	1	41	6	1.5830	76.7	1.09	1	1	1
6	RUNOFF	1	42	6	0.9110	75.7	0.93	1	1	1
6	RUNOFF	1	43	6	1.2411	81.0	0.68	1	1	1
6	RUNOFF	1	44	6	1.9410	81.0	1.22	1	1	1
	ENDATA									
7	INCREM	6			.083					
7	COMPUT	7	01	44	0.0	2.1	1.0	7	2	1
	ENDCMP	1								
7	COMPUT	7	01	44	0.0	3.5	1.0	7	2	1
	ENDCMP	1								
	ENDJOB	2								

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

FILE NO. 1

COMPUTER PROGRAM FOR PROJECT FORMULATION - HYDROLOGY USER NOTES

THE USERS MANUAL FOR THIS PROGRAM IS THE MAY 1982 DRAFT OF TR-20. CHANGES FROM THE 2/14/74 VERSION INCLUDE:

REACH ROUTING - THE MODIFIED ATT-KIN ROUTING PROCEDURE REPLACES THE CONVEX METHOD. INPUT DATA PREPARED FOR PREVIOUS PROGRAM VERSIONS USING CONVEX ROUTING COEFFICIENTS WILL NOT RUN ON THIS VERSION.

THE PREFERRED TYPE OF DATA ENTRY IS CROSS SECTION DATA REPRESENTATIVE OF A REACH. IT IS RECOMMENDED THAT THE OPTIONAL CROSS SECTION DISCHARGE-AREA PLOTS BE OBTAINED WHENEVER NEW CROSS SECTION DATA IS ENTERED. THE PLOTS SHOULD BE CHECKED FOR REASONABLENESS AND ADEQUACY OF INPUT DATA FOR THE COMPUTATION OF 'M' VALUES USED IN THE ROUTING PROCEDURE.

GUIDELINES FOR DETERMINING OR ANALYZING REACH LENGTHS AND COEFFICIENTS (X,M) ARE AVAILABLE IN THE USERS MANUAL. SUMMARY TABLE 2 DISPLAYS REACH ROUTING RESULTS AND ROUTING PARAMETERS FOR COMPARISON AND CHECKING.

HYDROGRAPH GENERATION - THE PROCEDURE TO CALCULATE THE INTERNAL TIME INCREMENT AND PEAK TIME OF THE UNIT HYDROGRAPH HAVE BEEN IMPROVED. PEAK DISCHARGES AND TIMES MAY DIFFER FROM THE PREVIOUS VERSION. OUTPUT HYDROGRAPHS ARE STILL INTERPOLATED, PRINTED, AND ROUTED AT THE USER SELECTED MAIN TIME INCREMENT.

INTERMEDIATE PEAKS - METHOD ADDED TO PROVIDE DISCHARGES AT INTERMEDIATE POINTS WITHIN REACHES WITHOUT ROUTING.

OTHER - THIS VERSION CONTAINS SOME ADDITIONS TO THE INPUT AND NUMEROUS MODIFICATIONS TO THE OUTPUT. USER OPTIONS HAVE BEEN MODIFIED AND AUGMENTED ON THE JOB RECORD, RAIN TABLES ADDED, ERROR AND WARNING MESSAGES EXPANDED, AND THE SUMMARY TABLES COMPLETELY REVISED. THE HOLDOUT OPTION IS NOT OPERATIONAL AT THIS TIME.

PROGRAM QUESTIONS OR PROBLEMS SHOULD BE DIRECTED TO HYDRAULIC ENGINEERS AT THE SCS NATIONAL TECHNICAL CENTERS:

BROOMALL, PA (NORTHEAST) -- 489-3229 (FTS), FORT WORTH, TX (SOUTH) -- 334-5242 (FTS)
LINCOLN, NB (MIDWEST) -- 541-5318 (FTS), PORTLAND, OR (WEST) -- 423-4099 (FTS)
OR HYDROLOGY UNIT, ENGINEERING DIVISION, LANHAM, MD -- 436-7383 (FTS).

PROGRAM CHANGES SINCE MAY 1982:

- 12/17/82 - CORRECT PEAK RATE FACTOR FOR USER ENTERED DIMHYD
- CORRECT REACH ROUTING PEAK TRAVEL TIME PRINTED WITH FULLPRINT OPTION
- 5/02/83 - CORRECT COMPUTATIONS FOR ---
 - 1. DIVISION OF BASEFLOW IN DIVERT OPERATION
 - 2. HYDROGRAPH VOLUME SPLIT BETWEEN BASEFLOW AND ABOVE BASEFLOW
 - 3. CROSS SECTION DATA PLOTTING POSITION
 - 4. INTERMEDIATE PEAK WHEN 'FROM' AREA IS LARGER THAN 'THRU' AREA
 - 5. STORAGE ROUTED REACH TRAVEL TIME FOR MULTYPEAK HYDROGRAPH
 - 6. ORDERING 'FLOW-FREQ' FILE FROM SUMMARY TABLE #3 DATA
 - 7. BASEFLOW ENTERED WITH READHYD
 - 8. LOW FLOW SPLIT DURING DIVERT PROCEDURE #2 WHEN SECTION RATINGS START AT DIFFERENT ELEVATIONS
- ENHANCEMENTS ---
 - 1. REPLACE USER MANUAL ERROR CODES (PAGE 4-9 TO 4-11) WITH MESSAGES
 - 2. LABEL OUTPUT HYDROGRAPH FILES WITH CROSS SECTION/STRUCTURE, ALTERNATE AND STORM NO'S

YEAR 6 HOME STORM

EXECUTIVE CONTROL OPERATION INCREM MAIN TIME INCREMENT = 0.08 HOURS RECORD ID

EXECUTIVE CONTROL OPERATION COMPUT FROM STRUCTURE 1 TO STRUCTURE 44 RECORD ID
 STARTING TIME = 0.00 RAIN DEPTH = 2.10 RAIN DURATION = 1.00 RAIN TABLE NO. = 7 ANT. MOIST. COND = 2
 ALTERNATE NO. = 1 STORM NO. = 1 MAIN TIME INCREMENT = 0.08 HOURS

OPERATION RUNOFF STRUCTURE 1
 OUTPUT HYDROGRAPH = 6
 AREA = 54.24 SQ MI INPUT RUNOFF CURVE = 79. TIME OF CONCENTRATION = 4.75 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT = 0.0833 HOURS

TIME(HRS)	DISCHG	PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	(RUNOFF)	DRAINAGE AREA =	54.24 SQ.MI.
5.10		5.10	3944.04				
0.83	DISCHG	0.00	0.00	0.00	0.00	0.26	15.60 34.04
1.66	DISCHG	54.35	80.32	123.84	172.34	419.39	492.70 576.74
2.49	DISCHG	670.50	768.44	869.70	988.46	1546.20	1709.13 1876.82
3.32	DISCHG	2045.26	2205.18	2364.37	2524.57	3078.24	3195.68 3300.14
4.15	DISCHG	3399.72	3496.32	3574.32	3640.88	3809.38	3852.34 3892.32 3925.98
4.98	DISCHG	3939.66	3943.66	3943.32	3938.22	3893.33	3870.46 3842.41 3810.84
5.81	DISCHG	3776.71	3734.05	3684.24	3630.49	3432.46	3353.96 3273.42 3196.43
6.64	DISCHG	3119.92	3041.50	2965.59	2896.79	2764.37	2699.34 2635.65 2571.84 2507.39
7.47	DISCHG	2444.57	2382.82	2320.59	2257.60	2138.70	2080.04 2021.31 1963.62 1906.72
8.30	DISCHG	1849.83	1792.74	1735.60	1678.52	1621.42	1565.36 1510.97 1457.57 1404.69 1353.68
9.13	DISCHG	1304.78	1257.01	1209.96	1164.10	1119.41	1075.58 1032.77 991.59 951.90 913.20
9.96	DISCHG	875.70	839.68	804.93	771.14	738.71	708.00 678.61 650.13 622.48 595.68
10.79	DISCHG	569.70	544.53	520.95	499.08	478.10	457.98 438.88 420.74 403.23 386.36
11.62	DISCHG	370.29	354.94	340.10	325.87	312.39	299.49 287.01 275.12 263.93 253.23
12.45	DISCHG	242.89	232.88	223.20	213.80	204.69	196.07 187.98 180.19 172.65 165.38
13.28	DISCHG	158.34	151.52	145.02	139.01	133.37	127.94 122.70 117.64 112.73 107.97
14.11	DISCHG	103.35	98.85	94.49	90.29	86.42	82.99 79.73 76.59 73.58 70.69
14.94	DISCHG	67.91	65.22	62.61	60.09	57.65	55.29 53.00 50.78 48.61 46.49
15.77	DISCHG	44.42	42.41	40.46	38.54	36.68	34.86 33.07 31.32 29.60 27.91
16.60	DISCHG	26.25	24.61	23.01	21.43	19.88	18.35 16.84 15.35 13.98 13.08
17.43	DISCHG	12.27	11.53	10.85	10.21	9.62	9.07 8.55 8.06 7.59 7.15
18.26	DISCHG	6.72	6.32	5.92	5.54	5.18	4.84 4.53 4.23 3.95 3.68
19.09	DISCHG	3.43	3.18	2.94	2.71	2.49	2.29 2.09 1.90 1.73 1.56
19.92	DISCHG	1.41	1.26	1.12	1.00	0.88	0.77 0.67 0.58 0.49 0.42
20.75	DISCHG	0.35	0.30	0.25	0.20	0.16	0.13 0.09 0.07 0.04 0.03
21.58	DISCHG	0.01	0.00				

RUNOFF VOLUME ABOVE BASEFLOW = 0.59 WATERSHED INCHES; 20809.92 CFS-HRS; 1719.73 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 2

OUTPUT HYDROGRAPH= 6
AREA= 52.96 SQ MI INPUT RUNOFF CURVE= 79. TIME OF CONCENTRATION= 4.33 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0825 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
4.76		4133.08				(RUNOFF)						
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 52.96 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	16.45	38.07
1.66	DISCHG	63.08	99.74	150.74	208.65	271.62	345.80	426.33	511.58	607.39	715.03	
2.49	DISCHG	828.95	950.30	1091.56	1243.76	1403.15	1574.87	1759.28	1951.45	2145.78	2331.61	
3.32	DISCHG	2514.97	2696.95	2867.32	3024.12	3176.10	3320.20	3443.65	3557.62	3665.17	3757.21	
4.15	DISCHG	3833.21	3902.09	3964.57	4016.86	4063.50	4102.74	4125.63	4132.57	4131.37	4123.83	
4.98	DISCHG	4109.38	4090.31	4066.43	4036.83	4002.41	3964.18	3918.81	3863.52	3802.37	3735.26	
5.81	DISCHG	3659.41	3575.61	3486.28	3396.98	3311.59	3226.05	3141.49	3063.40	2990.82	2919.13	
6.64	DISCHG	2848.92	2780.92	2712.89	2644.93	2578.67	2513.40	2447.36	2382.81	2320.65	2258.84	
7.47	DISCHG	2197.20	2136.09	2075.07	2013.93	1952.67	1890.86	1828.43	1766.38	1705.53	1645.48	
8.30	DISCHG	1595.72	1527.88	1472.00	1417.14	1363.37	1310.72	1258.97	1208.05	1158.74	1110.87	
9.13	DISCHG	1063.97	1018.31	974.16	931.37	889.80	850.37	812.81	776.64	741.68	707.69	
9.96	DISCHG	674.65	642.54	612.38	583.95	556.72	530.72	506.08	482.65	460.25	439.10	
10.79	DISCHG	419.04	399.86	381.61	364.30	347.79	331.90	316.93	302.75	289.18	276.16	
11.62	DISCHG	263.61	251.51	239.85	228.96	218.67	208.79	199.26	190.02	181.10	172.47	
12.45	DISCHG	164.57	157.19	150.15	143.41	136.91	130.67	124.65	118.81	113.14	107.66	
13.28	DISCHG	102.57	98.00	93.74	89.68	85.80	82.07	78.51	75.08	71.78	68.60	
14.11	DISCHG	65.52	62.55	59.66	56.87	54.16	51.53	48.98	46.51	44.11	41.78	
14.94	DISCHG	39.51	37.29	35.11	32.99	30.91	28.87	26.88	24.92	23.00	21.11	
15.77	DISCHG	19.26	17.54	16.27	15.23	14.28	13.40	12.58	11.82	11.11	10.44	
16.60	DISCHG	9.81	9.21	8.65	8.12	7.62	7.14	6.68	6.24	5.82	5.43	
17.43	DISCHG	5.06	4.71	4.39	4.07	3.78	3.50	3.23	2.97	2.72	2.49	
18.26	DISCHG	2.26	2.06	1.84	1.68	1.51	1.34	1.19	1.05	0.92	0.80	
19.09	DISCHG	0.69	0.59	0.50	0.43	0.36	0.30	0.25	0.20	0.15	0.12	
19.92	DISCHG	0.08	0.06	0.03	0.02	0.01	0.00					

RUNOFF VOLUME ABOVE BASEFLOW = 0.59 WATERSHED INCHES; 20315.67 CFS-HRS; 1678.89 ACRE-Feet; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 3
OUTPUT HYDROGRAPH= 6
AREA= 51.77 SQ MI INPUT RUNOFF CURVE= 79. TIME OF CONCENTRATION= 3.96 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0825 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
4.46		4290.65				(RUNOFF)						
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 51.77 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	19.04	44.07
1.66	DISCHG	73.77	122.38	184.47	253.46	333.16	422.61	518.44	625.78	748.05	878.96	
2.49	DISCHG	1021.68	1185.92	1361.55	1546.62	1751.79	1968.29	2188.17	2401.50	2611.20	2817.73	
3.32	DISCHG	3009.44	3186.95	3356.56	3510.93	3646.38	3772.12	3883.65	3972.48	4050.64	4120.58	
4.15	DISCHG	4178.33	4229.96	4270.82	4288.25	4290.42	4284.34	4269.63	4247.90	4220.90	4186.99	
4.98	DISCHG	4146.36	4101.04	4047.49	3982.57	3911.31	3831.79	3739.61	3640.27	3540.05	3443.14	

5.81	DISCHG	3347.16	3253.96	3168.85	3089.76	3013.00	2938.82	2866.50	2794.46	2724.10	2655.64
6.64	DISCHG	2587.01	2520.14	2455.90	2391.77	2328.08	2265.31	2202.29	2138.68	2074.76	2010.05
7.47	DISCHG	1944.83	1880.62	1817.18	1753.65	1691.44	1630.75	1570.38	1510.82	1452.40	1394.46
8.30	DISCHG	1337.67	1282.53	1228.45	1175.49	1123.91	1073.40	1024.19	976.99	931.66	887.75
9.13	DISCHG	845.21	804.03	764.00	726.22	690.64	656.45	623.69	592.38	562.34	533.69
9.96	DISCHG	506.52	480.72	456.29	433.33	411.67	391.14	371.89	353.69	336.31	319.64
10.79	DISCHG	303.65	288.28	273.87	260.38	247.58	235.31	223.54	212.20	201.45	191.47
11.62	DISCHG	182.08	173.10	164.51	156.29	148.41	140.85	133.57	126.55	120.17	114.37
12.45	DISCHG	108.92	103.75	98.80	94.06	89.54	85.22	81.09	77.11	73.28	69.60
13.28	DISCHG	66.05	62.62	59.29	56.07	52.95	49.94	47.03	44.22	41.49	38.84
14.11	DISCHG	36.25	33.72	31.24	28.82	26.46	24.14	21.92	20.27	18.92	17.70
14.94	DISCHG	16.58	15.53	14.55	13.65	12.79	11.98	11.22	10.51	9.83	9.20
15.77	DISCHG	8.60	8.02	7.48	6.97	6.50	6.05	5.62	5.22	4.84	4.48
16.60	DISCHG	4.13	3.80	3.50	3.21	2.93	2.67	2.43	2.20	1.98	1.78
17.43	DISCHG	1.59	1.41	1.25	1.09	0.95	0.82	0.71	0.60	0.51	0.43
18.26	DISCHG	0.36	0.30	0.24	0.19	0.14	0.10	0.07	0.04	0.02	0.01
19.09	DISCHG	0.00									

RUNOFF VOLUME ABOVE BASEFLOW = 0.59 WATERSHED INCHES; 19720.90 CFS-HRS; 1629.73 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 4
 OUTPUT HYDROGRAPH= 6
 AREA= 27.41 SQ MI INPUT RUNOFF CURVE= 78, TIME OF CONCENTRATION= 3.96 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0825 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)										
4.51	1983.25	(RUNOFF)										
TIME(HRS)	FIRST HYDROGRAPH POINT =	0.00 HOURS	TIME INCREMENT =	0.08 HOURS	DRAINAGE AREA = 27.41 SQ. MI.							
0.83	DISCHG	0.00	0.00	0.00	0.73	8.23	19.39					
1.66	DISCHG	32.69	54.26	82.08	113.17	149.10	189.51	232.94	281.56	336.93	396.40	
2.49	DISCHG	461.22	535.66	615.55	699.83	793.13	891.86	992.38	1090.35	1186.77	1281.89	
3.32	DISCHG	1370.69	1453.15	1532.01	1604.18	1667.93	1727.13	1780.02	1822.84	1860.59	1894.55	
4.15	DISCHG	1923.06	1948.65	1969.41	1979.77	1983.03	1982.39	1977.74	1969.78	1959.33	1945.68	
4.98	DISCHG	1928.90	1909.90	1887.18	1859.26	1828.30	1793.57	1753.08	1709.15	1664.59	1621.28	
5.81	DISCHG	1578.31	1536.44	1497.99	1462.20	1427.44	1393.77	1360.86	1328.02	1295.84	1264.41	
6.64	DISCHG	1232.87	1202.00	1172.19	1142.41	1112.75	1083.44	1053.97	1024.18	994.20	963.82	
7.47	DISCHG	933.13	902.82	872.82	842.72	813.15	784.23	755.45	727.02	699.11	671.42	
8.30	DISCHG	644.24	617.81	591.89	566.48	541.71	517.45	493.80	471.07	449.23	428.08	
9.13	DISCHG	407.61	387.80	368.55	350.34	333.17	316.68	300.87	285.76	271.26	257.43	
9.96	DISCHG	244.31	231.86	220.07	208.99	198.54	188.64	179.34	170.56	162.16	154.13	
10.79	DISCHG	146.42	139.02	132.07	125.56	119.39	113.47	107.81	102.35	97.17	92.35	
11.62	DISCHG	87.81	83.48	79.33	75.36	71.57	67.93	64.43	61.06	57.97	55.16	
12.45	DISCHG	52.53	50.02	47.63	45.34	43.16	41.07	39.08	37.16	35.32	33.55	
13.28	DISCHG	31.84	30.19	28.60	27.05	25.56	24.12	22.73	21.38	20.08	18.82	
14.11	DISCHG	17.58	16.38	15.20	14.05	12.93	11.83	10.78	9.97	9.31	8.71	
14.94	DISCHG	8.16	7.65	7.17	6.72	6.30	5.90	5.53	5.18	4.85	4.53	
15.77	DISCHG	4.24	3.94	3.69	3.44	3.20	2.98	2.77	2.58	2.39	2.21	
16.60	DISCHG	2.04	1.88	1.73	1.58	1.45	1.32	1.20	1.09	0.98	0.88	

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17.43	DISCHG	0.79	0.70	0.62	0.54	0.47	0.41	0.35	0.30	0.25	0.21
18.26	DISCHG	0.18	0.15	0.12	0.09	0.07	0.05	0.03	0.02	0.01	0.00

RUNOFF VOLUME ABOVE BASEFLOW = 0.52 WATERSHED INCHES, 9232.58 CFS-HRS, 762.98 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 5
OUTPUT HYDROGRAPH= 6
AREA= 23.68 SQ MI INPUT RUNOFF CURVE= B1. TIME OF CONCENTRATION= 2.47 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0823 HOURS

TIME(HRS)	PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
	3.27	3281.25	(RUNOFF)
0.83	DISCHG	0.00	0.00
1.66	DISCHG	137.14	226.85
2.49	DISCHG	2025.61	2277.10
3.32	DISCHG	3275.59	3251.40
4.15	DISCHG	2431.57	2312.60
4.98	DISCHG	1614.15	1560.23
5.81	DISCHG	1163.62	1127.17
6.64	DISCHG	812.39	778.23
7.47	DISCHG	473.44	412.18
8.30	DISCHG	222.38	204.79
9.13	DISCHG	96.27	88.10
9.96	DISCHG	37.61	34.45
10.79	DISCHG	15.56	14.21
11.62	DISCHG	6.17	5.59
12.45	DISCHG	2.08	1.83
13.28	DISCHG	0.47	0.39
14.11	DISCHG	0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 0.67 WATERSHED INCHES, 10220.38 CFS-HRS, 844.61 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 6
OUTPUT HYDROGRAPH= 6
AREA= 18.26 SQ MI INPUT RUNOFF CURVE= B0. TIME OF CONCENTRATION= 2.39 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0839 HOURS

TIME(HRS)	PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
	3.22	2435.88	(RUNOFF)
0.83	DISCHG	0.00	0.00
1.66	DISCHG	109.72	180.14
2.49	DISCHG	1586.33	1767.38
3.32	DISCHG	2420.77	2394.18
4.15	DISCHG	1720.09	1641.57
4.98	DISCHG	1153.64	1113.89

5.81	DISCHG	836.35	810.42	785.23	759.82	733.74	707.54	682.37	656.98	631.79	606.55
6.64	DISCHG	581.46	556.26	531.01	505.67	480.31	454.62	428.79	403.13	378.56	354.10
7.47	DISCHG	330.34	307.92	286.50	265.93	246.21	227.42	209.61	193.35	178.05	163.68
8.30	DISCHG	150.25	137.78	126.29	115.80	106.17	97.31	89.11	81.50	74.42	67.83
9.13	DISCHG	61.67	55.90	50.47	45.42	41.31	37.68	34.41	31.45	28.75	26.29
9.96	DISCHG	24.04	21.97	20.08	18.34	16.75	15.30	13.96	12.73	11.60	10.56
10.79	DISCHG	9.62	8.76	7.97	7.26	6.60	6.00	5.44	4.93	4.46	4.02
11.62	DISCHG	3.62	3.26	2.92	2.61	2.33	2.08	1.84	1.63	1.43	1.25
12.45	DISCHG	1.09	0.95	0.82	0.70	0.60	0.51	0.43	0.36	0.29	0.24
13.28	DISCHG	0.18	0.14	0.10	0.07	0.04	0.02	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.63 WATERSHED INCHES; 7461.64 CFS-HRS; 616.63 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 7
 OUTPUT HYDROGRAPH= 6
 AREA= 17.98 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.32 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0814 HOURS

PEAK TIME(HRS) 3.18
 PEAK DISCHARGE(CFS) 2439.28
 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 17.98 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3.70 20.79 55.64
1.66	DISCHG 110.84 185.13 274.13 380.07	505.97 654.80 827.96	1024.05 1234.60 1445.78
2.49	DISCHG 1645.94 1827.88 1987.45 2122.39	2231.37 2312.64 2373.44	2417.46 2438.37 2431.65
3.32	DISCHG 2408.55 2373.89 2329.33 2274.13	2205.97 2123.13 2026.18	1922.29 1821.22 1728.06
4.15	DISCHG 1646.17 1571.14 1501.03 1436.06	1376.24 1321.56 1272.84	1227.26 1184.07 1141.99
4.98	DISCHG 1101.46 1063.44 1028.10 994.97	963.69 933.45 904.64	877.21 850.70 824.84
5.81	DISCHG 799.79 775.07 749.92 724.47	699.51 674.87 650.12	625.40 600.78 576.28
6.64	DISCHG 551.85 527.36 502.68 477.66	452.31 426.98 401.85	376.90 352.41 328.88
7.47	DISCHG 306.36 284.69 263.80 243.76	224.94 207.46 191.02	175.51 160.91 147.24
8.30	DISCHG 134.55 122.87 112.21 102.46	93.51 85.26 77.60	70.48 63.85 57.66
9.13	DISCHG 51.93 46.97 42.77 38.96	35.51 32.38 29.54	26.96 24.60 22.43
9.96	DISCHG 20.45 18.64 16.98 15.47	14.08 12.81 11.63	10.57 9.61 8.73
10.79	DISCHG 7.93 7.20 6.53 5.92	5.35 4.83 4.35	3.92 3.52 3.15
11.62	DISCHG 2.81 2.51 2.23 1.98	1.75 1.54 1.34	1.17 1.02 0.88
12.45	DISCHG 0.75 0.64 0.55 0.46	0.39 0.32 0.26	0.20 0.15 0.11
13.28	DISCHG 0.08 0.05 0.03 0.01	0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 0.63 WATERSHED INCHES; 7296.61 CFS-HRS; 602.99 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 8
 OUTPUT HYDROGRAPH= 6
 AREA= 17.13 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.20 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0815 HOURS

PEAK TIME(HRS) 3.09
 PEAK DISCHARGE(CFS) 2345.79
 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 17.13 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67	21.52	59.63
1.66	DISCHG	116.83	194.66	288.50	401.11	535.74	695.94	881.46	1089.44	1305.80	1513.40
2.49	DISCHG	1704.60	1872.94	2015.96	2131.36	2217.86	2281.39	2325.47	2345.14	2337.11	2312.47
3.32	DISCHG	2275.31	2227.56	2167.25	2092.84	2003.12	1899.27	1794.79	1697.55	1610.24	1532.79
4.15	DISCHG	1459.97	1392.33	1330.11	1273.88	1223.70	1176.94	1132.99	1090.13	1049.45	1011.66
4.98	DISCHG	977.06	944.89	914.26	885.05	857.28	831.16	806.17	782.35	759.38	736.37
5.81	DISCHG	713.06	690.20	667.74	645.13	622.38	599.51	576.75	554.21	531.83	509.37
6.64	DISCHG	486.53	463.36	440.04	416.40	392.49	368.73	345.30	322.29	299.88	278.24
7.47	DISCHG	257.63	238.17	219.68	202.13	185.49	169.78	154.97	141.06	128.11	116.14
8.30	DISCHG	105.22	95.30	86.25	77.94	70.23	63.09	56.84	51.59	46.87	42.57
9.13	DISCHG	38.65	35.09	31.87	28.96	26.32	23.91	21.70	19.70	17.87	16.21
9.96	DISCHG	14.69	13.30	12.03	10.89	9.85	8.91	8.07	7.29	6.59	5.94
10.79	DISCHG	5.34	4.80	4.31	3.86	3.45	3.08	2.74	2.43	2.15	1.89
11.62	DISCHG	1.66	1.45	1.26	1.09	0.94	0.81	0.69	0.59	0.50	0.42
12.45	DISCHG	0.34	0.28	0.22	0.17	0.12	0.09	0.06	0.03	0.01	0.00

RUNOFF VOLUME ABOVE BASEFLOW = 0.61 WATERSHED INCHES; 6758.06 CFS-HRS; 558.49 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 9

OUTPUT HYDROGRAPH= 6

AREA= 16.84 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.14 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0839 HOURS

PEAK TIME(HRS) 3.04
PEAK DISCHARGE(CFS) 2375.01
PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 16.84 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	21.26	61.01
1.66	DISCHG	129.01	213.04	311.78	435.94	581.48	757.72	960.24	1183.75	1405.37	1619.10
2.49	DISCHG	1806.78	1969.54	2105.70	2208.51	2285.30	2339.66	2371.30	2372.85	2351.29	2317.01
3.32	DISCHG	2269.76	2210.31	2135.52	2043.82	1937.86	1829.12	1725.61	1633.45	1553.10	1476.88
4.15	DISCHG	1406.23	1340.97	1282.17	1230.04	1181.01	1134.86	1090.10	1047.86	1009.52	974.00
4.98	DISCHG	941.49	910.13	880.35	852.46	826.04	801.24	777.65	755.04	732.08	709.26
5.81	DISCHG	687.56	665.51	643.35	621.01	598.54	576.32	554.19	532.31	510.14	487.64
6.64	DISCHG	465.16	442.32	419.00	395.49	372.05	348.55	325.30	302.49	280.64	260.15
7.47	DISCHG	240.41	221.50	203.17	186.36	170.21	154.97	140.64	127.28	114.92	103.65
8.30	DISCHG	93.46	84.16	75.62	67.78	61.27	55.51	50.33	45.64	41.36	37.48
9.13	DISCHG	33.96	30.77	27.89	25.28	22.90	20.74	18.77	16.98	15.34	13.86
9.96	DISCHG	12.52	11.30	10.20	9.21	8.31	7.50	6.75	6.07	5.45	4.89
10.79	DISCHG	4.38	3.91	3.48	3.10	2.75	2.44	2.15	1.89	1.65	1.44
11.62	DISCHG	1.25	1.07	0.92	0.79	0.67	0.57	0.48	0.40	0.33	0.26
12.45	DISCHG	0.21	0.16	0.11	0.08	0.05	0.02	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.62 WATERSHED INCHES; 6691.53 CFS-HRS; 552.99 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 10

OUTPUT HYDROGRAPH= 6
AREA= 16.28 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.06 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0808 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.98		2334.66				(RUNOFF)						
TIME(HRS)	FIRST HYDROGRAPH POINT =	0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 16.28 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.78	23.40	65.01
1.66	DISCHG	129.92	216.02	320.13	418.39	602.45	787.10	999.23	1227.52	1451.81	1662.04	
2.49	DISCHG	1813.18	1998.58	2122.36	2212.43	2278.35	2320.02	2334.63	2317.21	2284.79	2239.72	
3.32	DISCHG	2180.72	2107.32	2015.18	1908.50	1796.34	1691.30	1596.82	1515.43	1438.58	1367.02	
4.15	DISCHG	1301.38	1212.67	1190.20	1140.76	1093.77	1048.75	1007.21	969.48	935.12	902.82	
4.98	DISCHG	871.93	843.01	815.88	790.59	766.90	744.61	722.50	700.76	680.29	659.78	
5.81	DISCHG	639.03	617.94	596.68	575.58	554.52	533.65	512.53	491.36	470.29	448.87	
6.64	DISCHG	427.15	405.29	383.09	360.40	337.54	314.92	293.03	272.08	251.88	232.37	
7.47	DISCHG	213.58	195.62	178.56	162.44	147.22	132.91	119.55	107.26	96.09	85.94	
8.30	DISCHG	76.96	69.30	62.57	56.53	51.09	46.18	41.74	37.72	34.06	30.73	
9.13	DISCHG	27.75	25.07	22.64	20.43	18.42	16.60	14.94	13.45	12.12	10.90	
9.96	DISCHG	9.80	8.82	7.93	7.12	6.39	5.72	5.11	4.56	4.06	3.61	
10.79	DISCHG	3.21	2.84	2.51	2.20	1.93	1.68	1.46	1.26	1.09	0.93	
11.62	DISCHG	0.79	0.68	0.57	0.48	0.40	0.33	0.26	0.20	0.15	0.11	
12.45	DISCHG	0.07	0.04	0.02	0.01	0.00						

RUNOFF VOLUME ABOVE BASEFLOW = 0.61 WATERSHED INCHES; 6380.01 CFS-HRS; 527.24 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 11

OUTPUT HYDROGRAPH= 6
AREA= 13.90 SQ MI INPUT RUNOFF CURVE= 79. TIME OF CONCENTRATION= 1.92 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0853 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.89		1922.54				(RUNOFF)						
TIME(HRS)	FIRST HYDROGRAPH POINT =	0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 13.90 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.20	21.13	60.04	
1.66	DISCHG	118.97	198.45	297.49	416.78	563.60	740.74	936.87	1138.06	1324.14	1492.29	
2.49	DISCHG	1634.76	1742.55	1824.89	1881.89	1915.04	1921.94	1904.13	1871.21	1827.31	1770.48	
3.32	DISCHG	1694.65	1604.29	1505.08	1413.17	1330.56	1257.50	1191.24	1128.99	1071.71	1021.50	
4.15	DISCHG	975.81	932.61	891.31	852.52	817.29	786.14	757.72	730.15	704.79	681.05	
4.98	DISCHG	658.84	638.50	619.87	601.72	584.51	568.77	553.24	537.70	522.13	506.05	
5.81	DISCHG	489.66	473.29	456.53	439.62	423.05	406.27	389.33	372.59	355.64	338.26	
6.64	DISCHG	320.40	302.30	284.04	265.66	247.38	229.40	211.89	194.88	178.41	162.56	
7.47	DISCHG	147.44	133.12	119.62	106.93	95.19	84.77	75.77	67.84	60.83	54.60	
8.30	DISCHG	49.01	44.02	39.55	35.52	31.88	28.59	25.62	22.96	20.59	18.44	
9.13	DISCHG	16.50	14.77	13.23	11.83	10.59	9.47	8.45	7.55	6.73	6.00	
9.96	DISCHG	5.34	4.74	4.20	3.72	3.29	2.91	2.56	2.24	1.96	1.71	
10.79	DISCHG	1.48	1.28	1.09	0.93	0.79	0.67	0.57	0.48	0.40	0.33	
11.62	DISCHG	0.27	0.21	0.16	0.11	0.08	0.05	0.03	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.56 WATERSHED INCHES, 5037.83 CFS-HRS, 116.33 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 12

OUTPUT HYDROGRAPH= 6

AREA= 13.41 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 1.89 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0840 HOURS

		PEAK TIME(HRS)				PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)			
		2.86				1812.92				(RUNOFF)			
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 13.41 SQ.MI.			
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	20.66	59.89	
1.66	DISCHG	118.91	198.69	297.13	414.60	564.61	740.54	936.46	1128.68	1306.19	1466.14		
2.49	DISCHG	1594.44	1593.26	1766.76	1816.07	1840.49	1938.68	1816.53	1781.21	1734.99	1672.54		
3.32	DISCHG	1593.08	1500.34	1406.22	1321.08	1245.15	1177.74	1115.54	1056.92	1004.56	958.53		
4.15	DISCHG	915.30	874.12	831.88	798.71	766.63	738.43	711.44	685.88	662.28	640.06		
4.98	DISCHG	619.65	601.35	583.62	566.71	551.60	536.88	522.28	507.83	493.06	477.87		
5.81	DISCHG	462.54	446.73	430.63	414.89	398.95	382.86	367.11	351.05	334.70	317.98		
6.64	DISCHG	301.07	283.94	266.41	248.73	231.16	213.91	197.14	180.83	165.02	149.84		
7.47	DISCHG	135.44	121.80	108.98	96.97	86.51	77.20	68.96	61.71	55.28	49.55		
8.30	DISCHG	44.44	39.86	35.75	32.05	28.71	25.70	23.00	20.58	18.41	16.45		
9.13	DISCHG	14.71	13.15	11.74	10.49	9.36	8.35	7.44	6.62	5.89	5.23		
9.96	DISCHG	4.64	4.11	3.64	3.21	2.83	2.49	2.18	1.90	1.65	1.43		
10.79	DISCHG	1.23	1.05	0.90	0.76	0.64	0.55	0.46	0.38	0.31	0.25		
11.62	DISCHG	0.20	0.15	0.11	0.07	0.04	0.02	0.01	0.00				

RUNOFF VOLUME ABOVE BASEFLOW = 0.55 WATERSHED INCHES, 4788.76 CFS-HRS, 395.74 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 13

OUTPUT HYDROGRAPH= 6

AREA= 13.28 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 1.85 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0822 HOURS

		PEAK TIME(HRS)				PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)			
		2.83				1856.16				(RUNOFF)			
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 13.28 SQ.MI.			
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	21.40	61.65		
1.66	DISCHG	122.86	205.57	308.15	432.71	589.13	773.12	973.92	1169.92	1349.77	1507.57		
2.49	DISCHG	1632.83	1727.94	1796.69	1839.72	1855.94	1846.46	1818.16	1777.14	1722.76	1650.52		
3.32	DISCHG	1561.86	1464.57	1371.63	1288.51	1214.99	1148.75	1086.81	1030.03	980.01	934.33		
4.15	DISCHG	891.00	849.66	811.07	776.65	746.40	718.32	691.84	667.12	643.97	622.82		
4.98	DISCHG	603.58	585.36	568.40	552.94	538.30	524.03	509.90	495.64	481.18	466.27		
5.81	DISCHG	450.76	435.03	419.35	403.58	387.91	372.35	356.59	340.51	324.35	308.11		
6.64	DISCHG	291.52	274.40	256.91	239.32	221.87	204.77	188.08	171.84	156.15	141.12		
7.47	DISCHG	126.88	113.15	101.27	90.28	80.40	71.61	63.89	57.08	51.06	45.68		
8.30	DISCHG	40.87	36.57	32.72	29.25	26.12	23.31	20.81	18.56	16.56	14.78		
9.13	DISCHG	13.18	11.75	10.47	9.33	8.30	7.37	6.55	5.81	5.15	4.55		

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9.96	DISCHG	4.02	3.55	3.13	2.75	2.41	2.10	1.82	1.58	1.36	1.17
10.79	DISCHG	0.99	0.84	0.71	0.60	0.51	0.43	0.35	0.29	0.23	0.17
11.62	DISCHG	0.13	0.09	0.06	0.03	0.01	0.00				

RUNOFF VOLUME ABOVE BASEFLOW = 0.55 WATERSHED INCHES, 4741.71 CFS-HRS, 391.85 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 14
OUTPUT HYDROGRAPH= 6
AREA= 12.75 SQ MI INPUT RUNOFF CURVE= 78, TIME OF CONCENTRATION= 1.81 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0804 HOURS

PEAK TIME(HRS) 2.81
PEAK DISCHARGE(CFS) 1740.24
PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 12.75 SQ.MI.								
0.83	DISCHG 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	19.33	57.28
1.66	DISCHG 115.52	194.72	293.24	413.24	565.54	743.48	937.65	1122.96	1292.31	1440.00	
2.49	DISCHG 1552.10	1637.92	1697.61	1732.17	1739.82	1723.06	1691.15	1647.85	1590.48	1513.93	
3.32	DISCHG 1424.22	1330.63	1246.67	1172.30	1106.59	1046.37	989.96	939.71	895.12	853.16	
4.15	DISCHG 812.98	775.01	740.46	710.62	683.52	657.84	634.06	611.64	590.84	572.36	
4.98	DISCHG 554.77	538.15	523.68	510.02	496.82	483.98	471.06	458.04	444.80	430.72	
5.81	DISCHG 416.19	401.67	386.95	372.31	357.91	343.26	328.32	313.30	298.38	283.19	
6.64	DISCHG 267.42	251.15	234.57	217.96	201.51	185.36	169.59	154.27	139.50	125.43	
7.47	DISCHG 112.26	100.44	89.57	79.64	70.77	62.94	56.09	50.06	44.68	39.89	
8.30	DISCHG 35.62	31.79	28.36	25.29	22.52	20.04	17.84	15.88	14.14	12.58	
9.13	DISCHG 11.19	9.95	8.84	7.84	6.95	6.15	5.44	4.81	4.24	3.73	
9.96	DISCHG 3.29	2.89	2.53	2.21	1.92	1.66	1.43	1.23	1.05	0.89	
10.79	DISCHG 0.75	0.63	0.54	0.45	0.38	0.31	0.24	0.19	0.14	0.10	
11.62	DISCHG 0.07	0.04	0.02	0.01	0.00						

RUNOFF VOLUME ABOVE BASEFLOW = 0.53 WATERSHED INCHES, 4390.68 CFS-HRS, 362.85 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 15
OUTPUT HYDROGRAPH= 6
AREA= 9.71 SQ MI INPUT RUNOFF CURVE= 76, TIME OF CONCENTRATION= 1.63 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0836 HOURS

PEAK TIME(HRS) 2.67
PEAK DISCHARGE(CFS) 1184.56
PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 9.71 SQ.MI.								
0.83	DISCHG 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	14.97	48.05	
1.66	DISCHG 97.25	160.55	243.39	350.26	479.16	623.23	784.94	888.40	991.98	1073.89	
2.49	DISCHG 1132.14	1171.47	1184.11	1180.07	1161.12	1131.02	1087.11	1029.20	960.72	892.72	
3.32	DISCHG 835.14	784.90	739.02	696.89	660.11	627.13	595.99	565.80	537.76	512.78	
4.15	DISCHG 490.51	470.30	451.92	435.02	419.52	405.31	391.91	379.85	369.03	359.15	
4.98	DISCHG 350.26	342.13	334.42	326.81	319.12	311.41	303.37	294.82	285.87	276.46	
5.81	DISCHG 266.64	256.75	246.98	237.20	227.34	217.35	207.20	196.86	186.19	175.06	
6.64	DISCHG 163.50	151.67	139.73	128.05	116.85	105.96	95.50	85.58	76.27	67.62	

7.47	DISCHG	59.68	52.47	16.07	10.49	35.65	31.43	27.70	24.42	21.52	18.95
8.30	DISCHG	16.68	14.68	12.91	11.37	10.00	8.79	7.71	6.76	5.92	5.18
9.13	DISCHG	4.53	3.95	3.45	3.01	2.62	2.28	1.97	1.70	1.46	1.24
9.96	DISCHG	1.06	0.89	0.75	0.63	0.53	0.44	0.37	0.31	0.25	0.20
10.79	DISCHG	0.15	0.11	0.08	0.05	0.03	0.01	0.00			

RUNOFF VOLUME ABOVE BASEFLOW = 0.46 WATERSHED INCHES; 2853.45 CFS-HRS; 235.81 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 16

OUTPUT HYDROGRAPH= 6

AREA= 6.47 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.46 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0811 HOURS

PEAK TIME(HRS) 2.56
PEAK DISCHARGE(CFS) 823.58
PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 6.47 SQ.MI.
0.83	DISCHG	0.00 0.00	0.00 0.00	1.42 11.00 35.90
1.66	DISCHG	75.68 129.32	199.04 288.02	685.66 748.75 792.05
2.49	DISCHG	817.69 923.44	813.56 792.80	761.83 719.02 665.77
3.32	DISCHG	493.93 463.43	437.33 413.69	391.22 369.95 350.68
4.15	DISCHG	290.26 278.64	267.68 258.27	250.13 242.65 235.80
4.98	DISCHG	214.37 209.82	205.41 201.04	196.54 191.74 186.69
5.81	DISCHG	162.45 155.70	148.93 142.20	135.43 128.61 121.83
6.64	DISCHG	93.93 86.24	78.58 71.01	63.63 56.52 49.85
7.47	DISCHG	28.47 24.65	21.39 18.58	16.15 14.04 12.21
8.30	DISCHG	6.91 5.98	5.17 4.47	3.85 3.32 2.86
9.13	DISCHG	1.55 1.32	1.12 0.94	0.79 0.66 0.55
9.96	DISCHG	0.26 0.21	0.17 0.13	0.10 0.07 0.04

RUNOFF VOLUME ABOVE BASEFLOW = 0.44 WATERSHED INCHES; 1827.58 CFS-HRS; 151.03 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 17

OUTPUT HYDROGRAPH= 6

AREA= 4.98 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.27 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0847 HOURS

PEAK TIME(HRS) 2.42
PEAK DISCHARGE(CFS) 687.43
PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 4.98 SQ.MI.
0.83	DISCHG	0.00 0.00	0.00 0.00	0.57 10.46 37.55
1.66	DISCHG	80.19 139.10	218.96 319.43	425.30 519.08 592.90
2.49	DISCHG	679.53 660.26	628.68 583.15	530.30 483.00 443.50
3.32	DISCHG	330.99 310.47	292.58 276.80	261.75 247.76 234.57
4.15	DISCHG	194.96 188.10	182.41 177.49	173.05 169.24 165.41
4.98	DISCHG	152.47 149.80	147.09 144.17	140.99 137.44 133.24
5.81	DISCHG	112.14 106.86	101.84 97.02	92.31 87.65 82.97
6.64	DISCHG	60.99 54.78	48.60 42.61	36.97 31.79 27.09

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7.47	DISCHG	14.03	11.94	10.17	8.65	7.34	6.22	5.27	4.47	3.78	3.20
8.30	DISCHG	2.70	2.27	1.91	1.61	1.35	1.12	0.93	0.77	0.63	0.52
9.13	DISCHG	0.42	0.35	0.28	0.23	0.18	0.14	0.11	0.08	0.05	0.03
9.96	DISCHG	0.02	0.01	0.00							

RUNOFF VOLUME ABOVE BASEFLOW = 0.43 WATERSHED INCHES, 1373.14 CFS-HRS, 113.48 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 18

OUTPUT HYDROGRAPH= 6
AREA= 2.85 SQ MI INPUT RUNOFF CURVE= 72, TIME OF CONCENTRATION= 0.91 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0867 HOURS

PEAK TIME(HRS) 2.17 PEAK DISCHARGE(CFS) 350.57 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 2.85 SQ.MI.								
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	9.84	32.39
1.66	DISCHG	71.40	128.84	199.55	265.80	313.84	341.41	350.50	344.18	324.98	294.86
2.49	DISCHG	262.84	234.92	210.95	190.21	171.76	155.68	142.69	132.90	125.63	119.74
3.32	DISCHG	114.52	109.83	105.12	100.14	94.98	89.78	85.24	81.87	79.39	77.84
4.15	DISCHG	76.96	76.33	75.65	74.62	73.34	72.03	70.73	69.49	68.36	67.41
4.98	DISCHG	66.68	66.06	65.30	64.16	62.44	60.06	57.09	53.82	50.55	47.41
5.81	DISCHG	44.57	42.21	40.30	38.65	37.01	35.00	32.41	29.25	25.67	21.96
6.64	DISCHG	18.35	14.99	12.03	9.56	7.60	6.06	4.84	3.86	3.07	2.44
7.47	DISCHG	1.94	1.53	1.21	0.95	0.74	0.58	0.45	0.36	0.28	0.21
8.30	DISCHG	0.16	0.12	0.09	0.06	0.04	0.02	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.32 WATERSHED INCHES, 591.14 CFS-HRS, 48.85 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 19

OUTPUT HYDROGRAPH= 6
AREA= 5.37 SQ MI INPUT RUNOFF CURVE= 84, TIME OF CONCENTRATION= 1.76 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0838 HOURS

PEAK TIME(HRS) 2.72 PEAK DISCHARGE(CFS) 1208.19 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 5.37 SQ.MI.								
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81	18.87	52.35
1.66	DISCHG	100.94	163.63	243.58	341.59	459.35	597.50	736.84	867.06	978.11	1065.52
2.49	DISCHG	1131.34	1176.21	1202.41	1207.73	1194.04	1167.97	1132.24	1086.65	1030.02	960.47
3.32	DISCHG	887.82	820.65	763.44	713.88	668.39	626.52	589.78	557.13	526.55	497.27
4.15	DISCHG	469.96	445.50	423.84	404.44	386.62	370.00	351.50	340.47	327.67	315.51
4.98	DISCHG	304.46	294.82	285.86	277.42	269.35	261.52	253.80	246.00	237.92	229.68
5.81	DISCHG	221.25	212.82	204.63	196.43	188.14	179.84	171.71	163.67	155.48	147.04
6.64	DISCHG	138.32	129.33	120.23	111.13	102.15	93.35	84.74	76.41	68.58	61.61
7.47	DISCHG	55.12	49.11	43.61	38.64	34.23	30.39	27.02	24.04	21.38	19.02
8.30	DISCHG	16.93	15.05	13.37	11.86	10.52	9.34	8.29	7.36	6.53	5.79
9.13	DISCHG	5.13	4.54	4.01	3.54	3.12	2.75	2.42	2.13	1.87	1.64

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9.96	DISCHG	1.43	1.25	1.08	0.93	0.80	0.69	0.58	0.50	0.42	0.35
10.79	DISCHG	0.30	0.25	0.21	0.17	0.13	0.10	0.08	0.06	0.04	0.02
11.62	DISCHG	0.01	0.00								

RUNOFF VOLUME ABOVE BASEFLOW = 0.80 WATERSHED INCHES; 2770.67 CFS-HRS; 228.97 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 20

OUTPUT HYDROGRAPH= 6

AREA= 2.15 SQ MI INPUT RUNOFF CURVE= 82. TIME OF CONCENTRATION= 0.71 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0789 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.95	899.77	(RUNOFF)
4.19	91.86	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 2.15 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	3.20 58.62 182.26
1.66	DISCHG 388.15 638.90 814.52 891.93	886.59 819.88 710.20	588.74 493.59 417.73
2.49	DISCHG 355.88 304.43 262.54 227.64	198.83 177.10 161.71	152.58 146.25 140.72
3.32	DISCHG 135.92 130.00 122.12 113.63	105.70 99.14 94.42	92.10 91.31 91.41
4.15	DISCHG 91.75 91.74 90.93 89.32	87.31 85.20 83.23	81.63 80.54 79.80
4.98	DISCHG 79.24 78.57 77.37 75.12	71.54 66.90 61.81	56.98 52.73 49.24
5.81	DISCHG 46.68 44.85 43.42 42.03	40.15 37.14 32.73	27.51 22.16 17.15
6.64	DISCHG 12.91 9.59 7.18 5.39	4.03 3.00 2.23	1.65 1.22 0.91
7.47	DISCHG 0.67 0.49 0.36 0.26	0.18 0.12 0.08	0.05 0.02 0.01
8.30	DISCHG 0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.72 WATERSHED INCHES; 998.72 CFS-HRS; 82.53 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 21

OUTPUT HYDROGRAPH= 6

AREA= 1.69 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 0.80 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0889 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
2.05	318.86	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 1.69 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 14.39 46.54
1.66	DISCHG 99.99 172.73 242.25 290.77	315.06 317.91 303.72	276.33 239.30 208.62
2.49	DISCHG 182.44 161.66 112.80 126.48	112.71 101.52 92.89	87.06 83.09 79.86
3.32	DISCHG 76.96 74.00 70.52 66.56	62.36 58.91 56.25	54.25 53.02 52.32
4.15	DISCHG 52.16 52.10 51.76 51.08	50.16 49.15 48.16	47.26 46.52 46.01
4.98	DISCHG 45.66 45.32 44.75 43.72	42.09 39.90 37.37	34.81 32.42 30.29
5.81	DISCHG 28.56 27.26 26.23 25.30	24.18 22.66 20.54	17.91 15.10 12.34
6.64	DISCHG 9.81 7.63 5.88 4.53	3.51 2.71 2.09	1.61 1.23 0.94
7.47	DISCHG 0.72 0.55 0.42 0.32	0.24 0.18 0.13	0.10 0.07 0.05
8.30	DISCHG 0.03 0.02 0.01 0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.42 WATERSHED INCHES; 454.62 CFS-HRS; 37.57 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 22

OUTPUT HYDROGRAPH= 6
AREA= 0.50 SQ MI INPUT RUNOFF CURVE= 74. TIME OF CONCENTRATION= 0.34 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0453 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.71	160.92	(RUNOFF)
3.02	20.93	(RUNOFF)
4.09	14.99	(RUNOFF)
4.95	12.53	(RUNOFF)
5.96	6.49	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 0.50 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.23 15.64 86.10
1.66	DISCHG 152.82 158.14 122.72 89.26	68.20 55.71 45.81 36.84	30.03 26.20
2.49	DISCHG 24.18 22.46 20.00 16.97	15.44 17.62 20.61 20.44	19.45 18.85
3.32	DISCHG 17.42 15.27 13.64 12.90	12.87 13.27 13.72 14.03	14.45 14.96
4.15	DISCHG 14.86 14.12 13.32 12.84	12.61 12.50 12.45 12.44	12.46 12.49
4.98	DISCHG 12.52 12.37 11.58 10.09	8.44 7.44 7.04 6.69	6.53 6.55
5.81	DISCHG 6.43 6.37 6.48 6.16	4.97 3.30 1.89 1.02	0.56 0.31
6.64	DISCHG 0.17 0.09 0.05 0.02	0.01 0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 0.38 WATERSHED INCHES; 123.25 CFS-HRS; 10.19 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 23

OUTPUT HYDROGRAPH= 6
AREA= 24.36 SQ MI INPUT RUNOFF CURVE= 81. TIME OF CONCENTRATION= 3.26 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0836 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
3.88	2738.76	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 24.36 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.97 17.87 39.15
1.66	DISCHG 72.04 120.90 175.80 242.30	316.25 397.50 494.61 599.24	719.87 855.79
2.49	DISCHG 999.60 1162.35 1334.20 1504.92	1669.66 1832.79 1978.91 2114.38	2241.61 2347.85
3.32	DISCHG 2443.94 2523.42 2585.34 2639.16	2680.83 2714.67 2736.25 2738.25	2729.75 2713.48
4.15	DISCHG 2690.70 2663.16 2628.57 2588.38	2540.55 2483.77 2421.29 2348.20	2266.70 2184.72
4.98	DISCHG 2106.32 2029.78 1960.61 1898.92	1839.65 1783.82 1730.18 1678.47	1629.77 1582.37
5.81	DISCHG 1538.31 1497.41 1457.14 1417.96	1378.98 1339.51 1299.54 1259.08	1219.59 1181.29
6.64	DISCHG 1143.58 1107.25 1071.38 1035.52	999.81 943.86 928.15 892.63	857.01 821.73
7.47	DISCHG 786.67 752.29 718.90 685.71	652.67 619.95 588.18 558.11	528.87 500.57
8.30	DISCHG 473.27 446.95 421.91 397.96	375.10 353.44 332.72 313.11	294.53 276.76
9.13	DISCHG 259.77 243.62 228.57 214.65	201.55 189.19 177.54 166.71	156.83 147.50
9.96	DISCHG 138.69 130.35 122.43 114.91	107.81 101.29 95.41 89.87	84.63 79.68
10.79	DISCHG 74.99 70.55 66.34 62.36	58.57 54.96 51.51 48.22	45.08 42.06

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11.62	DISCHG	39.16	36.38	33.71	31.15	28.68	26.31	24.01	21.79	19.67	18.19
12.45	DISCHG	16.87	15.67	11.57	13.55	12.60	11.73	10.92	10.16	9.45	8.79
13.28	DISCHG	8.17	7.59	7.04	6.52	6.02	5.57	5.16	4.77	4.41	4.07
14.11	DISCHG	3.76	3.46	3.18	2.91	2.66	2.42	2.20	1.99	1.80	1.63
14.94	DISCHG	1.47	1.32	1.18	1.04	0.92	0.81	0.70	0.61	0.52	0.44
15.77	DISCHG	0.37	0.32	0.26	0.22	0.17	0.14	0.10	0.07	0.05	0.03
16.60	DISCHG	0.02	0.01	0.00							

RUNOFF VOLUME ABOVE BASEFLOW = 0.68 WATERSHED INCHES; 10658.19 CFS-HRS; 880.79 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 24

OUTPUT HYDROGRAPH= 6
AREA= 26.43 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 3.66 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0811 HOURS

PEAK TIME(HRS) 4.24 PEAK DISCHARGE(CFS) 2113.87 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 26.43 SQ.MI.								
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	9.99	23.37
1.66	DISCHG	39.88	68.08	102.40	140.58	185.70	235.12	289.40	352.42	421.18	496.82
2.49	DISCHG	583.29	676.94	777.57	887.34	1003.05	1118.30	1230.42	1341.61	1447.03	1543.25
3.32	DISCHG	1635.38	1719.27	1791.78	1859.69	1918.13	1963.54	2004.82	2040.59	2069.39	2095.15
4.15	DISCHG	2111.51	2113.85	2112.34	2106.38	2095.59	2081.84	2064.18	2042.36	2017.58	1987.61
4.98	DISCHG	1951.95	1912.64	1867.27	1816.41	1763.71	1713.24	1663.90	1614.37	1571.39	1531.33
5.81	DISCHG	1491.54	1454.59	1418.14	1381.67	1348.14	1314.53	1280.55	1249.89	1218.77	1187.27
6.64	DISCHG	1156.77	1125.83	1094.42	1062.74	1030.68	998.70	967.53	936.25	905.19	874.88
7.47	DISCHG	814.55	814.14	783.80	753.48	723.60	694.31	665.36	636.95	609.09	581.62
8.30	DISCHG	555.06	529.39	504.29	479.67	455.57	432.12	410.03	389.17	369.10	349.93
9.13	DISCHG	331.60	313.97	297.15	281.08	265.70	251.14	237.37	224.35	212.20	200.80
9.96	DISCHG	190.00	179.74	169.97	160.73	152.10	143.97	136.24	128.87	121.83	115.20
10.79	DISCHG	109.10	103.36	97.89	92.65	87.64	82.85	78.26	73.86	69.75	66.10
11.62	DISCHG	62.67	59.43	56.36	53.43	50.64	47.98	45.43	43.00	40.68	38.46
12.45	DISCHG	36.32	34.27	32.29	30.38	28.55	26.78	25.07	23.42	21.83	20.29
13.28	DISCHG	18.80	17.35	15.93	14.55	13.23	12.23	11.40	10.63	9.93	9.28
14.11	DISCHG	8.68	8.12	7.60	7.10	6.63	6.19	5.78	5.39	5.02	4.67
14.94	DISCHG	4.34	4.04	3.76	3.49	3.24	3.00	2.78	2.57	2.36	2.17
15.77	DISCHG	1.99	1.82	1.66	1.51	1.37	1.24	1.12	1.01	0.90	0.80
16.60	DISCHG	0.70	0.62	0.54	0.46	0.40	0.34	0.29	0.24	0.20	0.17
17.43	DISCHG	0.13	0.10	0.08	0.06	0.04	0.02	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.54 WATERSHED INCHES; 9237.16 CFS-HRS; 763.36 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 25

OUTPUT HYDROGRAPH= 6
AREA= 24.49 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 3.66 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0811 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)					
4.28		1788.74				(RUNOFF)					
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 24.49 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	8.04	19.07
1.66	DISCHG	32.61	55.90	84.38	116.09	153.66	194.88	240.13	292.73	350.17	413.34
2.49	DISCHG	485.62	563.96	648.19	740.13	837.24	934.18	1028.65	1122.51	1211.75	1293.38
3.32	DISCHG	1371.69	1443.25	1505.29	1563.55	1614.00	1653.50	1689.51	1720.91	1746.43	1769.46
4.15	DISCHG	1784.73	1788.21	1788.37	1784.74	1776.99	1766.69	1753.08	1735.92	1716.26	1692.26
4.98	DISCHG	1663.43	1631.52	1594.50	1552.80	1509.39	1467.72	1426.91	1385.77	1350.01	1316.66
5.81	DISCHG	1283.48	1252.63	1222.21	1191.67	1163.57	1135.37	1106.75	1080.87	1054.57	1027.88
6.64	DISCHG	1001.99	975.69	948.96	921.97	894.64	867.29	840.60	813.77	787.07	760.97
7.47	DISCHG	734.81	708.56	682.34	656.11	630.24	604.87	579.77	555.11	530.92	507.06
8.30	DISCHG	483.96	461.62	439.77	418.34	397.38	376.97	357.71	339.52	322.03	305.31
9.13	DISCHG	289.31	273.94	259.26	245.24	231.82	219.11	207.09	195.73	185.11	175.16
9.96	DISCHG	165.73	156.79	148.27	140.21	132.68	125.59	118.84	112.42	106.28	100.50
10.79	DISCHG	95.18	90.16	85.39	80.82	76.45	72.28	68.28	64.45	60.86	57.67
11.62	DISCHG	54.67	51.83	49.15	46.60	44.16	41.84	39.62	37.50	35.47	33.54
12.45	DISCHG	31.68	29.90	28.18	26.52	24.92	23.39	21.91	20.48	19.10	17.77
13.28	DISCHG	16.48	15.23	14.01	12.81	11.67	10.80	10.06	9.39	8.77	8.20
14.11	DISCHG	7.66	7.17	6.71	6.27	5.86	5.47	5.10	4.76	4.44	4.13
14.94	DISCHG	3.84	3.57	3.32	3.08	2.86	2.66	2.46	2.27	2.09	1.92
15.77	DISCHG	1.76	1.61	1.47	1.34	1.21	1.10	0.99	0.89	0.80	0.71
16.60	DISCHG	0.62	0.55	0.48	0.41	0.35	0.30	0.25	0.21	0.18	0.15
17.43	DISCHG	0.12	0.09	0.07	0.05	0.03	0.02	0.01	0.01		

RUNOFF VOLUME ABOVE BASEFLOW = 0.50 WATERSHED INCHES; 7889.33 CFS-HRS; 651.97 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 26
 OUTPUT HYDROGRAPH= 6
 AREA= 23.18 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 3.09 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0824 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)					
3.82		1906.50				(RUNOFF)					
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 23.18 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	10.36	25.53
1.66	DISCHG	48.64	81.70	120.94	168.27	221.83	282.94	352.84	430.15	521.16	622.06
2.49	DISCHG	732.21	852.20	976.26	1096.39	1213.80	1324.38	1426.34	1521.44	1602.98	1674.85
3.32	DISCHG	1735.97	1785.35	1827.11	1860.88	1887.40	1902.89	1906.50	1903.09	1894.00	1880.18
4.15	DISCHG	1861.80	1838.97	1810.67	1775.15	1733.69	1685.71	1631.61	1575.81	1522.23	1470.89
4.98	DISCHG	1424.00	1381.30	1340.92	1302.86	1266.25	1231.22	1197.63	1165.91	1136.51	1108.27
5.81	DISCHG	1080.85	1053.81	1026.52	998.84	971.04	943.51	916.19	889.62	863.83	838.18
6.64	DISCHG	812.49	786.54	760.55	734.64	708.61	682.42	655.98	629.70	603.72	577.75
7.47	DISCHG	551.69	525.58	500.01	475.21	451.01	427.37	404.32	382.02	360.51	339.82
8.30	DISCHG	320.04	301.13	283.19	266.17	249.94	234.36	219.41	205.34	192.13	179.68
9.13	DISCHG	167.94	156.90	146.77	137.46	128.78	120.63	112.94	105.69	98.86	92.52

9.96	DISCHG	86.74	81.40	76.40	71.68	67.25	63.05	59.07	55.32	51.77	48.43
10.79	DISCHG	45.26	42.26	39.42	36.70	34.10	31.63	29.27	27.02	24.87	22.80
11.62	DISCHG	20.83	18.93	17.40	16.10	14.92	13.84	12.84	11.91	11.06	10.27
12.45	DISCHG	9.54	8.85	8.21	7.61	7.06	6.54	6.05	5.58	5.15	4.74
13.28	DISCHG	4.39	4.05	3.74	3.44	3.16	2.90	2.66	2.42	2.21	2.00
14.11	DISCHG	1.81	1.64	1.48	1.33	1.19	1.07	0.95	0.84	0.73	0.64
14.94	DISCHG	0.55	0.47	0.40	0.34	0.29	0.24	0.20	0.16	0.13	0.10
15.77	DISCHG	0.07	0.05	0.03	0.02	0.01	0.00				

RUNOFF VOLUME ABOVE BASEFLOW = 0.50 WATERSHED INCHES, 7410.44 CFS-HRS; 612.40 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 27

OUTPUT HYDROGRAPH= 6

AREA= 20.05 SQ MI INPUT RUNOFF CURVE= 77, TIME OF CONCENTRATION= 2.63 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0835 HOURS

TIME(HRS)	PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	DRAINAGE AREA = 20.05 SQ.MI.								
	3.44	1832.44	(RUNOFF)									
	FIRST HYDROGRAPH POINT = 0.00 HOURS			TIME INCREMENT = 0.08 HOURS								
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.05	13.44	30.36		
1.66	DISCHG	64.93	107.07	159.79	219.26	291.61	373.46	470.59	581.29	704.97	841.74	
2.49	DISCHG	980.81	1115.84	1245.78	1361.32	1468.94	1558.50	1639.04	1698.77	1749.07	1787.57	
3.32	DISCHG	1819.67	1831.25	1830.50	1820.97	1805.39	1783.63	1756.55	1721.11	1677.78	1625.96	
4.15	DISCHG	1565.34	1501.81	1440.15	1380.92	1329.00	1281.20	1236.80	1194.31	1155.06	1117.84	
4.98	DISCHG	1084.46	1053.33	1023.98	995.85	968.13	940.36	913.41	887.32	862.41	838.73	
5.81	DISCHG	815.78	793.17	770.77	748.67	726.59	704.38	681.99	659.78	637.61	615.02	
6.64	DISCHG	591.96	569.17	546.63	523.91	501.01	477.99	454.97	432.00	409.23	386.77	
7.47	DISCHG	364.75	343.18	322.13	301.80	282.37	263.79	245.97	228.96	212.94	197.88	
8.30	DISCHG	193.56	170.01	157.18	145.09	133.94	123.88	114.66	106.21	98.41	91.20	
9.13	DISCHG	84.50	78.27	72.45	67.01	61.92	57.16	52.67	48.45	44.47	40.71	
9.96	DISCHG	37.18	33.86	30.73	27.91	25.62	23.55	21.65	19.91	18.31	16.85	
10.79	DISCHG	15.50	14.26	13.12	12.05	11.07	10.18	9.36	8.59	7.87	7.21	
11.62	DISCHG	6.61	6.05	5.54	5.07	4.64	4.23	3.86	3.51	3.19	2.89	
12.45	DISCHG	2.61	2.36	2.12	1.90	1.71	1.52	1.35	1.20	1.06	0.93	
13.28	DISCHG	0.81	0.71	0.61	0.52	0.44	0.37	0.32	0.26	0.21	0.17	
14.11	DISCHG	0.13	0.10	0.07	0.05	0.03	0.01	0.00				

RUNOFF VOLUME ABOVE BASEFLOW = 0.49 WATERSHED INCHES, 6314.24 CFS-HRS; 521.81 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 28

OUTPUT HYDROGRAPH= 6

AREA= 13.13 SQ MI INPUT RUNOFF CURVE= 77, TIME OF CONCENTRATION= 2.63 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0835 HOURS

TIME(HRS)	PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)	DRAINAGE AREA = 13.13 SQ.MI.								
	3.44	1189.41	(RUNOFF)									
	FIRST HYDROGRAPH POINT = 0.00 HOURS			TIME INCREMENT = 0.08 HOURS								
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.05	13.13	30.36		
1.66	DISCHG	64.93	107.07	159.79	219.26	291.61	373.46	470.59	581.29	704.97	841.74	
2.49	DISCHG	980.81	1115.84	1245.78	1361.32	1468.94	1558.50	1639.04	1698.77	1749.07	1787.57	
3.32	DISCHG	1819.67	1831.25	1830.50	1820.97	1805.39	1783.63	1756.55	1721.11	1677.78	1625.96	
4.15	DISCHG	1565.34	1501.81	1440.15	1380.92	1329.00	1281.20	1236.80	1194.31	1155.06	1117.84	
4.98	DISCHG	1084.46	1053.33	1023.98	995.85	968.13	940.36	913.41	887.32	862.41	838.73	
5.81	DISCHG	815.78	793.17	770.77	748.67	726.59	704.38	681.99	659.78	637.61	615.02	
6.64	DISCHG	591.96	569.17	546.63	523.91	501.01	477.99	454.97	432.00	409.23	386.77	
7.47	DISCHG	364.75	343.18	322.13	301.80	282.37	263.79	245.97	228.96	212.94	197.88	
8.30	DISCHG	193.56	170.01	157.18	145.09	133.94	123.88	114.66	106.21	98.41	91.20	
9.13	DISCHG	84.50	78.27	72.45	67.01	61.92	57.16	52.67	48.45	44.47	40.71	
9.96	DISCHG	37.18	33.86	30.73	27.91	25.62	23.55	21.65	19.91	18.31	16.85	
10.79	DISCHG	15.50	14.26	13.12	12.05	11.07	10.18	9.36	8.59	7.87	7.21	
11.62	DISCHG	6.61	6.05	5.54	5.07	4.64	4.23	3.86	3.51	3.19	2.89	
12.45	DISCHG	2.61	2.36	2.12	1.90	1.71	1.52	1.35	1.20	1.06	0.93	
13.28	DISCHG	0.81	0.71	0.61	0.52	0.44	0.37	0.32	0.26	0.21	0.17	
14.11	DISCHG	0.13	0.10	0.07	0.05	0.03	0.01	0.00				

0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	8.70	19.65
1.66	DISCHG	42.04	69.35	103.52	142.06	188.97	242.04	305.01	376.79	457.00	545.70
2.49	DISCHG	635.91	723.53	807.87	882.88	952.77	1010.97	1063.32	1102.17	1134.92	1160.01
3.32	DISCHG	1180.95	1188.58	1188.22	1192.15	1172.15	1158.14	1140.67	1117.78	1089.76	1056.24
4.15	DISCHG	1017.01	975.87	935.93	897.55	863.90	832.92	804.14	776.59	751.15	727.02
4.98	DISCHG	705.37	685.18	656.15	617.91	629.93	611.91	594.43	577.50	561.33	545.95
5.81	DISCHG	531.05	516.37	501.82	487.46	473.12	458.68	444.12	429.68	415.26	400.57
6.64	DISCHG	385.57	370.73	356.07	341.28	326.37	311.38	296.39	281.43	266.61	251.98
7.47	DISCHG	237.64	223.59	209.87	196.63	183.97	171.87	160.26	149.18	138.74	128.92
8.30	DISCHG	119.60	110.77	102.41	94.53	87.27	80.71	74.71	69.20	64.12	59.42
9.13	DISCHG	55.05	50.99	47.20	43.66	40.34	37.24	34.32	31.57	28.98	26.53
9.96	DISCHG	24.23	22.07	20.03	18.19	16.70	15.35	14.11	12.98	11.94	10.98
10.79	DISCHG	10.11	9.30	8.55	7.86	7.22	6.64	6.10	5.60	5.13	4.70
11.62	DISCHG	4.31	3.95	3.61	3.31	3.02	2.76	2.52	2.29	2.08	1.88
12.45	DISCHG	1.70	1.54	1.38	1.24	1.11	0.99	0.88	0.78	0.69	0.61
13.28	DISCHG	0.53	0.46	0.40	0.34	0.29	0.24	0.21	0.17	0.14	0.11
14.11	DISCHG	0.09	0.06	0.04	0.03	0.02	0.01	0.00			

RUNOFF VOLUME ABOVE BASEFLOW = 0.48 WATERSHED INCHES, 1103.50 CFS-HRS, 339.11 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 29

OUTPUT HYDROGRAPH= 6

AREA= 10.72 SQ MI INPUT RUNOFF CURVE= 74, TIME OF CONCENTRATION= 1.96 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0817 HOURS

PEAK TIME(HRS) 2.94 PEAK DISCHARGE(CFS) 1145.36 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 10.72 SQ.MI.								
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	10.58	31.20
1.66	DISCHG	63.41	107.16	161.14	227.62	309.03	405.32	515.41	631.63	743.43	844.63
2.49	DISCHG	932.71	1005.10	1060.84	1102.20	1130.25	1143.96	1143.03	1131.54	1112.73	1086.31
3.32	DISCHG	1051.68	1007.82	955.92	902.12	852.11	808.15	768.33	731.24	696.44	664.88
4.15	DISCHG	637.06	611.30	586.79	563.31	541.43	521.82	504.10	487.62	471.81	456.81
4.98	DISCHG	442.96	430.06	418.15	407.02	396.07	385.59	375.76	365.91	355.92	345.62
5.81	DISCHG	335.03	324.28	313.44	302.48	291.41	280.35	269.21	257.91	246.55	235.08
6.64	DISCHG	223.27	211.09	198.66	186.20	173.84	161.66	149.77	138.25	127.07	116.30
7.47	DISCHG	105.99	96.20	86.96	78.25	70.11	62.55	55.76	49.87	44.76	40.24
8.30	DISCHG	36.19	32.56	29.30	26.38	23.75	21.36	19.19	17.24	15.49	13.92
9.13	DISCHG	12.50	11.21	10.05	9.02	8.08	7.24	6.49	5.81	5.20	4.65
9.96	DISCHG	4.15	3.70	3.30	2.93	2.60	2.31	2.04	1.80	1.59	1.39
10.79	DISCHG	1.22	1.06	0.92	0.79	0.68	0.58	0.49	0.42	0.35	0.30
11.62	DISCHG	0.25	0.20	0.16	0.13	0.09	0.07	0.04	0.03	0.01	0.00

RUNOFF VOLUME ABOVE BASEFLOW = 0.46 WATERSHED INCHES, 3172.79 CFS-HRS, 262.20 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 30

OUTPUT HYDROGRAPH= 6

AREA= 4.73 SQ MI INPUT RUNOFF CURVE= 75, TIME OF CONCENTRATION= 1.52 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0844 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA =		
2.60	589.00				(RUNOFF)				4.73 SQ.MI.		
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	7.32	24.81
1.66	DISCHG	51.74	87.63	133.95	192.93	265.19	341.37	411.84	472.32	520.50	555.16
2.49	DISCHG	578.02	588.36	586.06	575.65	538.78	534.94	502.82	445.71	431.25	401.57
3.32	DISCHG	375.79	352.58	331.93	314.11	297.66	281.82	266.83	253.20	240.97	229.93
4.15	DISCHG	220.14	211.17	202.99	195.54	188.67	182.86	177.46	172.54	168.15	164.23
4.98	DISCHG	160.65	157.11	153.75	150.38	146.96	143.49	139.72	135.60	131.32	126.82
5.81	DISCHG	122.12	117.34	112.52	107.69	102.83	97.90	92.93	87.84	82.54	77.22
6.64	DISCHG	71.83	66.34	60.81	55.30	49.92	44.73	39.80	35.18	30.92	27.01
7.47	DISCHG	23.51	20.45	17.82	15.55	13.57	11.86	10.36	9.06	7.90	6.89
8.30	DISCHG	6.01	5.24	4.56	3.97	3.45	2.99	2.59	2.24	1.94	1.68
9.13	DISCHG	1.45	1.25	1.08	0.92	0.78	0.66	0.56	0.47	0.39	0.33
9.96	DISCHG	0.27	0.23	0.19	0.16	0.12	0.10	0.07	0.05	0.04	0.02
10.79	DISCHG	0.01	0.00								

RUNOFF VOLUME ABOVE BASEFLOW = 0.44 WATERSHED INCHES, 1346.76 CFS-HRS, 111.30 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 31
 OUTPUT HYDROGRAPH= 6
 AREA= 1.69 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 0.93 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0886 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA =		
2.14	330.71				(RUNOFF)				1.69 SQ.MI.		
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.33	38.39
1.66	DISCHG	80.29	140.94	208.59	266.21	305.64	326.56	330.32	319.94	298.76	266.81
2.49	DISCHG	233.73	207.42	183.97	164.95	147.46	132.30	120.00	110.46	103.24	97.30
3.32	DISCHG	92.21	87.75	83.49	79.24	74.96	70.70	66.81	63.83	61.54	60.03
4.15	DISCHG	59.03	58.28	57.55	56.61	55.45	54.31	53.25	52.25	51.33	50.52
4.98	DISCHG	49.88	49.34	48.73	47.87	46.59	44.82	42.63	40.23	37.82	35.50
5.81	DISCHG	33.39	31.59	30.10	28.80	27.53	26.07	24.23	21.98	19.41	16.69
6.64	DISCHG	14.04	11.55	9.34	7.47	5.96	4.78	3.84	3.08	2.47	1.97
7.47	DISCHG	1.57	1.25	0.99	0.78	0.62	0.49	0.38	0.30	0.24	0.18
8.30	DISCHG	0.14	0.11	0.08	0.06	0.04	0.03	0.01	0.01	0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 0.47 WATERSHED INCHES, 511.25 CFS-HRS, 42.25 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 32
 OUTPUT HYDROGRAPH= 6
 AREA= 0.78 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 0.80 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0889 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.04		178.00				(RUNOFF)						
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 0.78 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	8.46	26.97	
1.66	DISCHG	57.50	98.69	137.55	164.04	176.59	177.01	167.91	151.57	130.10	112.62	
2.49	DISCHG	97.87	86.28	75.80	66.81	59.27	53.14	48.41	45.17	42.94	41.13	
3.32	DISCHG	39.52	37.90	36.04	33.96	31.77	29.98	28.58	27.52	26.86	26.47	
4.15	DISCHG	26.36	26.32	26.13	25.77	25.30	24.78	24.27	23.81	23.42	23.16	
4.98	DISCHG	22.97	22.79	22.50	21.97	21.15	20.04	18.77	17.48	16.27	15.20	
5.81	DISCHG	14.33	13.67	13.15	12.68	12.12	11.35	10.29	8.97	7.56	6.18	
6.64	DISCHG	4.91	3.82	2.95	2.27	1.76	1.36	1.05	0.81	0.62	0.47	
7.47	DISCHG	0.36	0.27	0.21	0.16	0.12	0.09	0.07	0.05	0.03	0.02	
8.30	DISCHG	0.01	0.01	0.00								

RUNOFF VOLUME ABOVE BASEFLOW = 0.48 WATERSHED INCHES; 242.78 CFS-HRS; 20.06 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 33
 OUTPUT HYDROGRAPH= 6
 AREA= 1.49 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.15 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0852 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.33		222.26				(RUNOFF)						
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 1.49 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	4.36	14.72	
1.66	DISCHG	31.56	55.28	86.81	123.37	158.50	186.97	206.79	218.22	222.25	218.73	
2.49	DISCHG	210.63	197.62	180.13	162.00	146.61	133.33	121.76	112.12	103.79	96.59	
3.32	DISCHG	90.66	85.52	80.83	76.45	72.35	68.40	64.95	61.79	58.93	56.57	
4.15	DISCHG	54.63	53.02	51.71	50.63	49.63	48.62	47.67	46.75	45.83	44.95	
4.98	DISCHG	44.11	43.30	42.46	41.57	40.62	39.58	38.30	36.80	35.16	33.46	
5.81	DISCHG	31.77	30.16	28.67	27.27	25.93	24.61	23.25	21.73	20.00	18.11	
6.64	DISCHG	16.14	14.17	12.26	10.48	8.86	7.41	6.17	5.15	4.30	3.60	
7.47	DISCHG	3.02	2.52	2.10	1.75	1.46	1.22	1.01	0.84	0.70	0.58	
8.30	DISCHG	0.47	0.39	0.32	0.26	0.21	0.17	0.14	0.11	0.09	0.07	
9.13	DISCHG	0.05	0.04	0.03	0.02	0.01	0.01	0.00				

RUNOFF VOLUME ABOVE BASEFLOW = 0.43 WATERSHED INCHES; 411.29 CFS-HRS; 33.99 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 34
 OUTPUT HYDROGRAPH= 6
 AREA= 6.31 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 2.50 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0833 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)			
3.33		615.66				(RUNOFF)			

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 6.31 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.01 4.98 11.05
1.66	DISCHG 24.35 39.67 59.45 81.05	108.76 138.68 176.57	217.32 264.73 315.00
2.49	DISCHG 362.62 410.57 451.57 490.95	522.49 551.54 572.02	589.53 602.50 613.41
3.32	DISCHG 615.62 614.38 609.75 603.28	594.15 583.60 568.77	552.02 531.03 507.83
4.15	DISCHG 485.98 463.95 445.37 427.91	411.95 396.64 382.72	369.32 357.66 346.62
4.98	DISCHG 336.38 326.53 316.88 307.24	298.25 289.36 281.21	273.33 265.75 258.26
5.81	DISCHG 251.07 243.91 236.87 229.73	222.73 215.71 208.49	201.09 193.87 186.67
6.64	DISCHG 179.51 172.29 165.02 157.67	150.29 142.88 135.50	128.15 120.82 113.56
7.47	DISCHG 106.51 99.73 93.17 86.83	80.83 75.16 69.76	64.62 59.72 55.06
8.30	DISCHG 50.76 46.78 43.09 39.69	36.56 33.69 31.06	28.64 26.39 24.29
9.13	DISCHG 22.34 20.52 18.83 17.24	15.74 14.33 13.01	11.77 10.69 9.79
9.96	DISCHG 8.97 8.22 7.54 6.91	6.34 5.82 5.33	4.89 4.48 4.10
10.79	DISCHG 3.76 3.44 3.14 2.87	2.62 2.40 2.19	2.00 1.82 1.66
11.62	DISCHG 1.51 1.38 1.25 1.13	1.02 0.92 0.83	0.74 0.67 0.59
12.45	DISCHG 0.53 0.47 0.41 0.36	0.32 0.28 0.24	0.21 0.18 0.15
13.28	DISCHG 0.13 0.11 0.09 0.07	0.06 0.04 0.03	0.02 0.01 0.01
14.11	DISCHG 0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.50 WATERSHED INCHES; 2033.11 CFS-HRS; 168.02 ACRE-FeET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 35

OUTPUT HYDROGRAPH= 6

AREA= 5.46 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.75 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0833 HOURS

PEAK TIME(HRS) 2.76
PEAK DISCHARGE(CFS) 642.72
PEAK ELEVATION(FeET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 5.46 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 7.92 23.66
1.66	DISCHG 47.21 77.85 117.60 166.66	226.04 297.60 369.87	439.20 499.57 548.61
2.49	DISCHG 587.49 615.66 634.69 642.36	640.04 631.41 617.33	597.75 572.27 538.84
3.32	DISCHG 504.47 472.11 444.93 420.55	397.94 376.78 358.45	341.68 325.96 310.66
4.15	DISCHG 296.51 283.72 272.47 262.27	252.88 243.99 235.63	228.09 221.08 214.33
4.98	DISCHG 208.41 203.06 198.08 193.33	188.69 184.07 179.44	174.58 169.48 164.15
5.81	DISCHG 158.57 153.00 147.48 141.88	136.20 130.51 124.85	119.17 113.34 107.32
6.64	DISCHG 101.05 94.58 88.01 81.43	74.93 68.55 62.31	56.27 50.68 45.51
7.47	DISCHG 40.69 36.23 32.15 28.46	25.21 22.37 19.88	17.68 15.72 13.98
8.30	DISCHG 12.43 11.05 9.81 8.69	7.71 6.84 6.07	5.38 4.77 4.23
9.13	DISCHG 3.74 3.31 2.92 2.57	2.27 2.00 1.76	1.54 1.35 1.19
9.96	DISCHG 1.03 0.90 0.78 0.67	0.58 0.49 0.42	0.35 0.30 0.25
10.79	DISCHG 0.21 0.18 0.15 0.12	0.09 0.07 0.05	0.04 0.02 0.01
11.62	DISCHG 0.01 0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.46 WATERSHED INCHES; 1630.20 CFS-HRS; 134.72 ACRE-FeET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 36

OUTPUT HYDROGRAPH= 6
AREA= 2.15 SQ MI INPUT RUNOFF CURVE= 74. TIME OF CONCENTRATION= 1.29 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0860 HOURS

TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT - 0.00 HOURS	TIME INCREMENT - 0.08 HOURS	DRAINAGE AREA = 2.15 SQ.MI.
0.83	DISCHG	0.00	0.00	0.55
1.66	DISCHG	28.97	50.44	4.01
2.49	DISCHG	264.01	258.06	13.37
3.32	DISCHG	134.07	126.17	265.50
4.15	DISCHG	80.43	77.57	142.71
4.98	DISCHG	42.83	61.74	87.55
5.81	DISCHG	16.52	14.37	64.08
6.64	DISCHG	25.54	23.01	48.75
7.47	DISCHG	6.06	5.18	28.02
8.30	DISCHG	1.20	1.02	7.10
9.13	DISCHG	0.20	0.16	1.68
9.96	DISCHG	0.01	0.01	0.24

RUNOFF VOLUME ABOVE BASEFLOW = 0.39 WATERSHED INCHES; 546.74 CFS-HRS; 45.18 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 37

OUTPUT HYDROGRAPH= 6
AREA= 5.99 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.96 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0817 HOURS

TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT - 0.00 HOURS	TIME INCREMENT - 0.08 HOURS	DRAINAGE AREA = 5.99 SQ.MI.
0.83	DISCHG	0.00	0.00	0.91
1.66	DISCHG	36.74	62.00	6.17
2.49	DISCHG	536.87	578.25	18.12
3.32	DISCHG	602.67	547.18	486.41
4.15	DISCHG	363.41	348.59	622.81
4.98	DISCHG	251.85	244.45	379.41
5.81	DISCHG	190.07	183.95	259.80
6.64	DISCHG	126.54	119.62	196.12
7.47	DISCHG	60.04	54.50	133.24
8.30	DISCHG	20.49	18.43	65.89
9.13	DISCHG	7.08	6.35	22.78
9.96	DISCHG	2.35	2.10	7.88
10.79	DISCHG	0.69	0.60	2.63
11.62	DISCHG	0.14	0.11	0.79

RUNOFF VOLUME ABOVE BASEFLOW = 0.47 WATERSHED INCHES, 1813.73 CFS-HRS, 149.89 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 38

OUTPUT HYDROGRAPH= 6
AREA= 5.45 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.41 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0855 HOURS

		PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				
		2.51		757.90				(RUNOFF)				
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 5.45 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	11.08	35.87
1.66	DISCHG	75.60	129.42	200.18	289.30	391.62	494.37	584.79	656.86	708.58	740.93	
2.49	DISCHG	757.05	752.70	736.59	710.40	672.80	621.49	572.29	525.62	486.68	452.33	
3.32	DISCHG	422.41	397.04	374.25	352.82	332.95	314.96	298.45	283.14	269.40	257.21	
4.15	DISCHG	246.23	236.08	227.12	219.47	212.67	206.51	201.00	196.06	191.45	187.12	
4.98	DISCHG	183.06	179.22	175.57	171.78	167.86	163.89	159.57	154.74	149.41	143.65	
5.81	DISCHG	137.63	131.55	125.50	119.51	113.59	107.99	102.42	96.69	90.74	84.52	
6.64	DISCHG	78.02	71.36	64.65	58.03	51.62	45.52	39.85	34.64	29.92	25.74	
7.47	DISCHG	22.15	19.11	16.51	14.28	12.36	10.69	9.24	7.97	6.87	5.92	
8.30	DISCHG	5.09	4.38	3.76	3.22	2.76	2.37	2.03	1.73	1.48	1.25	
9.13	DISCHG	1.06	0.89	0.75	0.62	0.51	0.43	0.35	0.29	0.24	0.19	
9.96	DISCHG	0.15	0.12	0.09	0.06	0.04	0.02	0.01	0.00			

RUNOFF VOLUME ABOVE BASEFLOW = 0.16 WATERSHED INCHES, 1614.68 CFS-HRS, 133.44 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 39

OUTPUT HYDROGRAPH= 6
AREA= 3.96 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.41 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0855 HOURS

		PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				
		2.51		572.58				(RUNOFF)				
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 3.96 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	8.59	27.55
1.66	DISCHG	57.81	98.76	152.56	220.22	297.74	375.39	443.55	497.70	536.38	560.39	
2.49	DISCHG	572.07	568.31	555.72	535.52	506.70	469.84	430.15	394.78	365.26	339.23	
3.32	DISCHG	316.57	297.36	280.10	263.89	248.86	235.28	222.81	211.27	200.91	191.73	
4.15	DISCHG	183.45	175.81	169.06	163.30	158.18	153.55	149.40	145.68	142.22	138.96	
4.98	DISCHG	135.91	133.03	130.29	127.46	124.52	121.56	118.34	114.74	110.77	106.49	
5.81	DISCHG	102.01	97.49	93.00	88.54	84.15	79.99	75.86	71.62	67.21	62.60	
6.64	DISCHG	57.78	52.85	47.88	42.98	38.23	33.71	29.51	25.65	22.16	19.06	
7.47	DISCHG	16.40	14.15	12.23	10.57	9.15	7.92	6.84	5.90	5.09	4.38	
8.30	DISCHG	3.77	3.24	2.78	2.39	2.04	1.75	1.50	1.28	1.09	0.93	
9.13	DISCHG	0.78	0.66	0.55	0.46	0.38	0.32	0.26	0.22	0.18	0.14	
9.96	DISCHG	0.11	0.09	0.07	0.05	0.03	0.02	0.01	0.00			

RUNOFF VOLUME ABOVE BASEFLOW = 0.47 WATERSHED INCHES; 1211.51 CFS-HRS; 100.12 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 40

OUTPUT HYDROGRAPH= 6

AREA= 1.49 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.25 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0833 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)					
2.38		206.52				(RUNOFF)					
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 1.49 SQ.MI.	
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.69	13.17
1.66	DISCHG	26.81	45.87	71.89	104.26	136.03	163.08	183.71	196.88	205.48	206.32
2.49	DISCHG	202.93	196.07	191.81	169.07	153.49	140.50	128.85	118.57	110.02	102.74
3.32	DISCHG	96.14	90.37	85.45	80.86	76.61	72.54	68.87	65.50	62.56	59.87
4.15	DISCHG	57.51	55.58	53.96	52.50	51.28	50.12	49.05	48.02	47.01	46.09
4.98	DISCHG	45.25	44.45	43.64	42.76	41.80	40.74	39.45	37.95	36.39	34.78
5.81	DISCHG	33.17	31.58	30.08	28.65	27.26	25.88	24.50	23.06	21.47	19.72
6.64	DISCHG	17.89	16.01	14.15	12.35	10.68	9.15	7.76	6.54	5.53	4.69
7.47	DISCHG	3.98	3.38	2.87	2.43	2.06	1.74	1.47	1.24	1.05	0.88
8.30	DISCHG	0.74	0.63	0.52	0.44	0.37	0.30	0.25	0.21	0.17	0.14
9.13	DISCHG	0.11	0.09	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01
9.96	DISCHG	0.00									

RUNOFF VOLUME ABOVE BASEFLOW = 0.43 WATERSHED INCHES; 409.73 CFS-HRS; 33.86 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 41

OUTPUT HYDROGRAPH= 6

AREA= 1.58 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 1.09 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0807 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)					
2.27		293.03				(RUNOFF)					
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 1.58 SQ.MI.	
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	6.89	22.51
1.66	DISCHG	47.81	83.70	130.64	182.05	227.83	261.97	282.90	292.45	290.26	280.26
2.49	DISCHG	263.24	239.12	213.11	190.68	171.45	154.99	141.18	128.96	118.63	110.53
3.32	DISCHG	103.67	97.60	92.10	86.96	82.02	77.62	73.56	69.79	66.54	63.92
4.15	DISCHG	61.79	60.10	58.81	57.66	56.59	55.54	54.43	53.29	52.15	51.05
4.98	DISCHG	50.02	49.06	48.24	47.40	46.39	45.11	43.49	41.59	39.57	37.50
5.81	DISCHG	35.48	33.62	31.93	30.38	28.92	27.47	25.91	24.08	21.99	19.73
6.64	DISCHG	17.38	15.05	12.85	10.82	8.99	7.42	6.12	5.06	4.19	3.48
7.47	DISCHG	2.88	2.38	1.96	1.62	1.34	1.10	0.90	0.74	0.60	0.49
8.30	DISCHG	0.40	0.32	0.26	0.21	0.17	0.13	0.11	0.08	0.06	0.05
9.13	DISCHG	0.03	0.02	0.01	0.01	0.00					

RUNOFF VOLUME ABOVE BASEFLOW = 0.49 WATERSHED INCHES; 502.36 CFS-HRS; 41.52 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 42

OUTPUT HYDROGRAPH= 6
AREA= 0.91 SQ MI INPUT RUNOFF CURVE= 76, TIME OF CONCENTRATION= 0.93 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0986 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)					
2.14		171.45				(RUNOFF)					
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 0.91 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	19.78
1.66	DISCHG	41.39	72.72	107.71	137.59	158.13	169.14	171.29	166.10	155.30	138.91
2.49	DISCHG	121.87	108.28	96.14	86.28	77.21	69.33	62.94	57.99	54.25	51.18
3.32	DISCHG	48.54	46.22	44.00	41.78	39.54	37.31	35.27	33.71	32.51	31.72
4.15	DISCHG	31.20	30.81	30.43	29.95	29.34	28.74	28.18	27.65	27.17	26.75
4.98	DISCHG	26.41	26.12	25.80	25.35	24.68	23.74	22.58	21.31	20.04	18.81
5.81	DISCHG	17.69	16.74	15.95	15.26	14.59	13.81	12.84	11.65	10.28	8.84
6.64	DISCHG	7.44	6.12	4.95	3.96	3.16	2.53	2.03	1.63	1.31	1.04
7.47	DISCHG	0.83	0.66	0.53	0.42	0.33	0.26	0.20	0.16	0.12	0.10
8.30	DISCHG	0.07	0.06	0.04	0.03	0.02	0.01	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 0.45 WATERSHED INCHES, 267.36 CFS-HRS, 22.09 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 43

OUTPUT HYDROGRAPH= 6
AREA= 1.24 SQ MI INPUT RUNOFF CURVE= 81, TIME OF CONCENTRATION= 0.68 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0907 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)					
1.93		492.60				(RUNOFF)					
4.18		50.68				(RUNOFF)					
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 1.24 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.62	38.03	109.92
1.66	DISCHG	223.37	354.48	451.77	490.45	480.67	434.48	367.42	305.00	254.63	214.86
2.49	DISCHG	182.32	155.55	134.06	116.33	102.02	91.40	84.60	80.88	78.05	75.65
3.32	DISCHG	73.12	69.63	65.08	60.29	56.11	52.88	50.98	50.10	50.05	50.33
4.15	DISCHG	50.65	50.60	50.00	49.00	47.82	46.63	45.59	44.82	44.29	43.93
4.98	DISCHG	43.67	43.33	42.60	41.12	38.87	36.09	33.20	30.54	28.29	26.55
5.81	DISCHG	25.33	24.45	23.73	22.98	21.79	19.83	17.19	14.20	11.20	8.49
6.64	DISCHG	6.26	4.59	3.38	2.49	1.84	1.36	1.00	0.73	0.54	0.39
7.47	DISCHG	0.28	0.20	0.14	0.10	0.07	0.04	0.02	0.01	0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 0.67 WATERSHED INCHES, 536.33 CFS-HRS, 44.32 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 44

OUTPUT HYDROGRAPH= 6
AREA= 1.94 SQ MI INPUT RUNOFF CURVE= 81, TIME OF CONCENTRATION= 1.22 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0813 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA =		
2.34		478.73				(RUNOFF)				1.94 SQ.MI.		
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65	11.12	33.79
1.66	DISCHG	69.21	118.07	183.15	260.14	335.45	397.30	441.05	467.45	478.37	474.00	
2.49	DISCHG	458.55	434.44	400.15	359.25	320.98	289.13	261.67	238.11	218.40	201.27	
3.32	DISCHG	186.03	173.01	161.78	151.50	142.07	133.36	125.43	118.39	112.20	106.61	
4.15	DISCHG	101.91	98.10	94.76	91.89	89.42	87.14	84.99	82.89	80.97	79.22	
4.98	DISCHG	77.58	76.00	74.39	72.67	70.83	68.76	66.38	63.81	61.12	58.32	
5.81	DISCHG	55.51	52.77	50.19	47.73	45.35	43.02	40.66	38.17	35.42	32.41	
6.64	DISCHG	29.25	26.04	22.88	19.86	17.07	14.51	12.23	10.28	8.66	7.32	
7.47	DISCHG	6.19	5.23	4.42	3.73	3.14	2.64	2.22	1.87	1.57	1.31	
8.30	DISCHG	1.10	0.92	0.77	0.64	0.53	0.43	0.35	0.29	0.24	0.19	
9.13	DISCHG	0.16	0.13	0.10	0.08	0.06	0.04	0.03	0.02	0.01	0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 0.67 WATERSHED INCHES; 837.63 CFS-HRS; 69.22 ACRE-FEET; BASEFLOW = 0.00 CFS

EXECUTIVE CONTROL OPERATION ENDCMP

COMPUTATIONS COMPLETED FOR PASS 1

RECORD ID

5 YEAR 24 HOUR STORM

EXECUTIVE CONTROL OPERATION COMPUT FROM STRUCTURE 1 TO STRUCTURE 44 RECORD ID
STARTING TIME = 0.00 RAIN DEPTH = 3.50 RAIN DURATION = 1.00 RAIN TABLE NO. = 7 ANT. MOIST. COND = 2
ALTERNATE NO. = 1 STORM NO. = 1 MAIN TIME INCREMENT = 0.08 HOURS

OPERATION RUNOFF STRUCTURE 1

OUTPUT HYDROGRAPH = 6
AREA = 54.24 SQ MI INPUT RUNOFF CURVE = 79. TIME OF CONCENTRATION = 4.75 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT = 0.0833 HOURS

TIME(HRS)	PEAK TIME(HRS) 4.94	PEAK DISCHARGE(CFS) 10952.20	PEAK ELEVATION(FEET) (RUNOFF)
0.83	DISCHG	0.00	0.00
1.66	DISCHG	177.38	261.87
2.49	DISCHG	2036.82	2325.02
3.32	DISCHG	6051.33	6503.77
4.15	DISCHG	9746.65	9991.79
4.98	DISCHG	10944.39	10917.78
5.81	DISCHG	10148.55	9996.81
6.64	DISCHG	8039.03	7804.96
7.47	DISCHG	6109.10	5941.02
8.30	DISCHG	4543.21	4397.03
9.13	DISCHG	3170.48	3053.01
9.96	DISCHG	2121.56	2034.10
10.79	DISCHG	1379.82	1318.48
11.62	DISCHG	897.20	860.03
12.45	DISCHG	589.08	564.80
13.28	DISCHG	383.77	367.09
14.11	DISCHG	250.45	239.43
14.94	DISCHG	165.01	158.53
15.77	DISCHG	107.69	102.70
16.60	DISCHG	61.89	57.72
17.43	DISCHG	26.66	25.03
18.26	DISCHG	14.51	13.63
19.09	DISCHG	7.37	6.84
19.92	DISCHG	3.01	2.70
20.75	DISCHG	0.76	0.64
21.58	DISCHG	0.03	0.01

RUNOFF VOLUME ABOVE BASEFLOW = 1.59 WATERSHED INCHES; 55549.58 CFS-HRS; 4590.62 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 2

OUTPUT HYDROGRAPH = 6
AREA = 52.96 SQ MI INPUT RUNOFF CURVE = 79. TIME OF CONCENTRATION = 4.33 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT = 0.0825 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA = 52.96 SQ.MI.		
4.64		11526.16				(RUNOFF)						
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 52.96 SQ.MI.						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.21	7.46	59.24	127.56	
1.66	DISCHG	206.52	323.83	483.66	660.31	851.44	1077.07	1318.08	1572.34	1859.49	2180.60	
2.49	DISCHG	2517.15	2877.03	3299.25	3717.97	4215.94	4720.80	5261.23	5819.34	6377.03	6903.20	
3.32	DISCHG	7422.22	7932.66	8401.86	8829.38	9243.85	9630.07	9949.92	10245.87	10521.02	10745.97	
4.15	DISCHG	10924.16	11084.59	11225.71	11336.17	11432.36	11505.20	11526.11	11501.10	11456.34	11394.50	
4.98	DISCHG	11313.38	11221.17	11116.55	10995.96	10862.56	10719.73	10555.51	10362.30	10154.96	9931.04	
5.81	DISCHG	9681.45	9110.47	9127.33	8819.88	8587.10	8325.74	8071.40	7810.72	7627.46	7417.30	
6.64	DISCHG	7213.85	7018.50	6823.79	6631.32	6445.89	6264.43	6082.06	5906.91	5740.31	5575.13	
7.47	DISCHG	5111.54	5250.88	5091.37	4931.94	4772.75	4612.80	4451.76	4292.95	4138.78	3987.30	
8.30	DISCHG	3836.93	3693.19	3555.28	3419.93	3287.53	3158.30	3031.36	2906.51	2786.45	2670.24	
9.13	DISCHG	2556.35	2415.68	2338.99	2235.51	2134.92	2010.31	1950.42	1863.63	1779.50	1697.53	
9.96	DISCHG	1617.62	1539.94	1467.85	1400.07	1335.01	1272.91	1214.07	1157.97	1104.20	1053.62	
10.79	DISCHG	1005.57	959.47	915.68	874.28	834.67	796.50	760.85	727.04	694.59	663.34	
11.62	DISCHG	633.11	603.87	575.65	549.64	525.03	501.34	478.40	456.12	434.52	413.65	
12.45	DISCHG	394.87	377.33	360.54	344.41	328.82	313.77	299.22	285.05	271.27	257.92	
13.28	DISCHG	245.77	235.02	225.00	215.44	206.26	197.42	188.93	180.75	172.84	165.19	
14.11	DISCHG	157.78	150.58	143.58	136.77	130.14	123.69	117.42	111.32	105.38	99.56	
14.94	DISCHG	93.89	88.33	82.87	77.52	72.26	67.09	62.01	57.02	52.10	47.26	
15.77	DISCHG	42.50	38.21	35.36	33.06	30.97	29.05	27.25	25.59	24.04	22.59	
16.60	DISCHG	21.21	19.91	18.68	17.53	16.45	15.41	14.40	13.43	12.53	11.69	
17.43	DISCHG	10.89	10.14	9.43	8.76	8.12	7.51	6.93	6.37	5.84	5.33	
18.26	DISCHG	4.85	4.41	3.99	3.59	3.22	2.87	2.55	2.25	1.97	1.71	
19.09	DISCHG	1.48	1.27	1.08	0.91	0.77	0.64	0.53	0.42	0.33	0.25	
19.92	DISCHG	0.18	0.12	0.07	0.04	0.01	0.00					

RUNOFF VOLUME ABOVE BASEFLOW = 1.59 WATERSHED INCHES; 51230.15 CFS-HRS; 4481.58 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 3
 OUTPUT HYDROGRAPH= 6
 AREA= 51.77 SQ MI INPUT RUNOFF CURVE= 79. TIME OF CONCENTRATION= 3.96 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0825 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA = 51.77 SQ.MI.		
4.36		12063.20				(RUNOFF)						
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 51.77 SQ.MI.						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.24	8.48	68.86	148.37	
1.66	DISCHG	243.56	400.34	593.73	805.40	1049.27	1320.28	1608.51	1932.36	2300.15	2690.30	
2.49	DISCHG	3117.30	3609.87	4130.24	4677.97	5286.36	5921.34	6559.32	7169.50	7766.87	8349.93	
3.32	DISCHG	8880.52	9367.54	9830.43	10242.29	10595.94	10922.76	11203.04	11412.84	11596.03	11755.23	
4.15	DISCHG	11877.51	11983.80	12055.05	12052.96	12010.07	11915.97	11858.38	11752.64	11633.32	11494.86	
4.98	DISCHG	11338.29	11169.14	10975.06	10748.60	10506.46	10239.63	9936.22	9616.43	9299.47	8997.35	
5.81	DISCHG	8700.10	8415.48	8159.83	7923.23	7694.09	7474.52	7261.81	7051.20	6848.12	6652.50	
6.64	DISCHG	6457.49	6270.59	6093.69	5917.87	5744.83	5575.85	5407.06	5237.50	5067.85	4896.92	

7.47	DISCHG	4726.19	4560.08	4397.17	4235.07	4078.39	3926.84	3776.38	3628.73	3484.35	3341.32
8.30	DISCHG	3201.98	3067.35	2935.45	2806.67	2681.69	2559.48	2440.83	2327.79	2219.42	2114.25
9.13	DISCHG	2012.14	1913.01	1816.60	1726.54	1642.06	1560.78	1483.05	1408.81	1337.43	1269.46
9.96	DISCHG	1205.07	1143.79	1085.74	1031.32	979.87	931.06	885.51	842.43	801.15	761.43
10.79	DISCHG	723.20	684.39	652.10	620.10	589.63	560.36	532.17	504.94	479.27	455.69
11.62	DISCHG	433.50	412.24	391.81	372.20	353.36	335.19	317.63	300.70	285.65	272.10
12.45	DISCHG	259.37	247.23	235.60	224.43	213.74	203.49	193.64	184.13	174.94	166.07
13.28	DISCHG	157.49	149.17	141.08	133.21	125.56	118.16	110.97	103.98	97.19	90.55
14.11	DISCHG	84.06	77.68	71.43	65.30	59.29	53.40	47.82	44.11	41.13	38.45
14.94	DISCHG	35.99	33.69	31.55	29.57	27.70	25.94	24.28	22.72	21.25	19.88
15.77	DISCHG	18.57	17.32	16.14	15.04	14.01	13.03	12.11	11.24	10.42	9.63
16.60	DISCHG	8.89	8.18	7.52	6.89	6.30	5.74	5.21	4.72	4.25	3.82
17.43	DISCHG	3.41	3.02	2.67	2.34	2.04	1.76	1.51	1.29	1.09	0.92
18.26	DISCHG	0.77	0.63	0.51	0.40	0.30	0.22	0.15	0.09	0.05	0.02
19.09	DISCHG	0.00									

RUNOFF VOLUME ABOVE BASEFLOW = 1.58 WATERSHED INCHES, 52782.71 CFS-HRS, 4361.96 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 4

OUTPUT HYDROGRAPH= 6

AREA= 27.41 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 3.96 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0825 HOURS

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
4.37 5869.27 (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 27.41 SQ.MI.									
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61	32.10	70.07
1.66	DISCHG	115.29	190.00	282.68	384.28	501.43	631.85	770.63	926.47	1103.66	1291.81	
2.49	DISCHG	1497.50	1734.91	1986.16	2250.52	2544.27	2851.41	3160.63	3456.94	3747.21	4031.09	
3.32	DISCHG	4290.17	4528.22	4754.81	4957.18	5131.44	5292.71	5431.92	5537.10	5629.10	5709.54	
4.15	DISCHG	5772.10	5826.87	5865.09	5868.01	5850.85	5823.22	5784.08	5735.98	5681.18	5617.04	
4.98	DISCHG	5544.01	5464.85	5373.71	5266.76	5152.07	5025.51	4881.13	4728.43	4576.66	4431.75	
5.81	DISCHG	4289.01	4151.99	4028.65	3914.48	3803.85	3697.72	3594.82	3492.83	3394.29	3299.26	
6.64	DISCHG	3204.42	3113.27	3026.84	2940.88	2856.16	2773.31	2690.50	2607.25	2523.90	2439.85	
7.47	DISCHG	2355.77	2273.81	2193.34	2113.18	2035.53	1960.33	1885.64	1812.29	1740.53	1669.42	
8.30	DISCHG	1600.08	1533.02	1467.32	1403.14	1340.81	1279.85	1220.63	1164.14	1109.98	1057.43	
9.13	DISCHG	1006.44	956.95	908.82	863.78	821.50	780.84	741.94	704.78	669.06	635.04	
9.96	DISCHG	602.82	572.16	543.11	515.87	490.13	465.70	442.89	421.33	400.67	380.81	
10.79	DISCHG	361.70	343.31	326.16	310.14	294.90	280.27	266.18	252.58	239.74	227.94	
11.62	DISCHG	216.82	206.18	195.96	186.16	176.74	167.67	158.91	150.45	142.91	136.11	
12.45	DISCHG	129.72	123.64	117.80	112.21	106.86	101.73	96.80	92.05	87.46	83.03	
13.28	DISCHG	78.75	74.60	70.57	66.66	62.85	59.17	55.60	52.13	48.76	45.47	
14.11	DISCHG	42.25	39.09	35.99	32.96	29.99	27.07	24.30	22.42	20.91	19.55	
14.94	DISCHG	18.30	17.14	16.05	15.04	14.09	13.20	12.36	11.56	10.82	10.12	
15.77	DISCHG	9.45	8.82	8.21	7.65	7.13	6.64	6.17	5.73	5.31	4.91	
16.60	DISCHG	4.53	4.17	3.83	3.51	3.21	2.92	2.65	2.40	2.17	1.95	
17.43	DISCHG	1.74	1.54	1.36	1.19	1.04	0.90	0.77	0.66	0.56	0.47	
18.26	DISCHG	0.39	0.32	0.26	0.20	0.15	0.11	0.08	0.05	0.03	0.01	

19.09 DISCHG 0.00

RUNOFF VOLUME ABOVE BASEFLOW = 1.46 WATERSHED INCHES, 25890.35 CFS-HRS, 2139.58 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 5

OUTPUT HYDROGRAPH= 6
AREA= 23.68 SQ MI INPUT RUNOFF CURVE= 81. TIME OF CONCENTRATION= 2.47 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0823 HOURS

PEAK TIME(HRS) 3.23 PEAK DISCHARGE(CFS) 8933.27 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 23.68 SQ.MI.								
0.83	DISCHG 0.00	0.00	0.00	0.00	0.00	0.00	0.45	13.50	91.87	214.07	
1.66	DISCHG 429.44	693.46	1013.99	1377.34	1817.89	2316.07	2914.29	3575.27	4317.09	5079.97	
2.49	DISCHG 5802.26	6484.46	7072.91	7594.93	8013.42	8356.05	8589.36	8763.80	8881.61	8933.23	
3.32	DISCHG 8876.30	8764.57	8614.03	8434.50	8223.23	7976.17	7678.60	7338.12	6948.86	6553.86	
4.15	DISCHG 6181.20	5839.56	5544.17	5273.38	5021.69	4787.08	4570.35	4372.07	4194.63	4029.37	
4.98	DISCHG 3873.89	3723.35	3575.25	3434.43	3302.06	3178.70	3064.77	2956.05	2851.20	2751.19	
5.81	DISCHG 2654.96	2561.69	2470.24	2381.82	2295.99	2209.57	2121.66	2036.52	1954.14	1873.32	
6.64	DISCHG 1793.30	1714.05	1634.99	1556.62	1478.51	1401.60	1325.36	1249.38	1173.78	1100.70	
7.47	DISCHG 1030.22	962.05	896.01	833.98	775.47	719.71	666.50	615.66	567.23	523.08	
8.30	DISCHG 482.40	444.52	409.29	376.70	346.75	319.17	293.77	270.08	247.96	227.28	
9.13	DISCHG 207.97	189.82	172.76	156.65	141.37	126.91	113.38	102.75	93.86	85.89	
9.96	DISCHG 78.68	72.05	65.97	60.43	55.37	50.70	46.41	42.48	38.86	35.54	
10.79	DISCHG 32.48	29.66	27.07	24.69	22.55	20.56	18.75	17.10	15.57	14.15	
11.62	DISCHG 12.85	11.63	10.52	9.49	8.55	7.67	6.88	6.15	5.49	4.88	
12.45	DISCHG 4.31	3.80	3.34	2.92	2.54	2.20	1.89	1.61	1.37	1.15	
13.28	DISCHG 0.97	0.80	0.64	0.51	0.39	0.28	0.19	0.12	0.07	0.03	
14.11	DISCHG 0.01	0.00									

RUNOFF VOLUME ABOVE BASEFLOW = 1.71 WATERSHED INCHES, 26107.60 CFS-HRS, 2157.53 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 6

OUTPUT HYDROGRAPH= 6
AREA= 18.26 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.39 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0839 HOURS

PEAK TIME(HRS) 3.17 PEAK DISCHARGE(CFS) 6800.82 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 18.26 SQ.MI.								
0.83	DISCHG 0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.35	77.63	180.93	
1.66	DISCHG 356.60	571.48	829.83	1130.32	1488.13	1905.10	2390.41	2935.19	3524.62	4108.44	
2.49	DISCHG 4644.72	5162.14	5602.42	5965.61	6265.17	6479.29	6634.06	6740.76	6798.90	6776.06	
3.32	DISCHG 6695.71	6584.60	6446.74	6283.54	6090.11	5859.78	5591.07	5290.57	4984.69	4694.93	
4.15	DISCHG 4434.12	4204.34	3993.88	3797.89	3616.54	3449.80	3298.22	3163.13	3035.80	2915.61	
4.98	DISCHG 2798.31	2685.14	2578.83	2480.47	2388.69	2303.08	2220.53	2141.88	2067.27	1995.41	
5.81	DISCHG 1925.81	1858.40	1793.72	1728.90	1663.05	1598.16	1536.72	1475.33	1414.96	1354.99	

6.64	DISCHG	1295.88	1237.06	1178.73	1120.59	1062.78	1004.41	946.05	889.15	833.51	778.84
7.47	DISCHG	726.00	676.44	629.13	583.68	540.07	498.47	459.34	423.93	390.58	359.21
8.30	DISCHG	329.85	302.53	277.30	254.19	232.91	213.25	195.00	178.00	162.12	147.28
9.13	DISCHG	133.34	120.23	107.85	96.56	87.71	79.97	73.00	66.70	60.97	55.73
9.96	DISCHG	50.95	46.56	42.55	38.85	35.47	32.38	29.55	26.94	24.54	22.33
10.79	DISCHG	20.34	18.53	16.86	15.34	13.96	12.68	11.50	10.41	9.41	8.49
11.62	DISCHG	7.65	6.97	6.16	5.50	4.91	4.37	3.88	3.43	3.01	2.63
12.45	DISCHG	2.30	2.00	1.72	1.48	1.26	1.07	0.90	0.75	0.62	0.49
13.28	DISCHG	0.39	0.29	0.21	0.14	0.09	0.05	0.02	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.65 WATERSHED INCHES; 19454.01 CFS-HRS; 1607.68 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 7

OUTPUT HYDROGRAPH= 6
AREA= 17.98 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.32 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0814 HOURS

PEAK TIME(HRS) 3.13 PEAK DISCHARGE(CFS) 6836.39 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 17.98 SQ.MI.								
0.83	DISCHG 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.41	73.58	185.11
1.66	DISCHG 359.69	585.80	854.63	1172.28	1548.59	1991.43	2504.01	3080.18	3689.35	4290.34	
2.49	DISCHG 4848.90	5348.40	5775.40	6129.35	6401.35	6594.74	6729.74	6818.64	6832.72	6771.68	
3.32	DISCHG 6667.69	6533.96	6373.33	6182.88	5955.00	5686.05	5377.66	5058.35	4751.78	4476.79	
4.15	DISCHG 4235.88	4016.92	3811.67	3623.93	3449.94	3294.36	3154.06	3023.62	2899.33	2778.30	
4.98	DISCHG 2662.35	2554.89	2455.71	2363.91	2277.41	2194.30	2115.70	2041.35	1970.08	1901.37	
5.81	DISCHG 1835.92	1771.87	1707.09	1642.65	1580.78	1520.32	1460.24	1400.78	1342.10	1284.24	
6.64	DISCHG 1227.10	1170.38	1113.65	1056.30	998.64	941.47	885.01	829.00	774.44	722.30	
7.47	DISCHG 672.48	624.50	578.25	533.85	492.61	454.48	418.60	384.74	352.81	322.87	
8.30	DISCHG 295.02	269.32	245.77	224.16	204.26	185.83	168.66	152.63	137.65	123.59	
9.13	DISCHG 110.62	99.88	90.90	82.78	75.43	68.76	62.71	57.23	52.21	47.60	
9.96	DISCHG 43.39	39.54	36.01	32.80	29.85	27.14	24.64	22.38	20.35	18.48	
10.79	DISCHG 16.78	15.24	13.82	12.52	11.32	10.22	9.21	8.28	7.43	6.66	
11.62	DISCHG 5.94	5.30	4.71	4.18	3.69	3.24	2.83	2.47	2.14	1.85	
12.45	DISCHG 1.59	1.35	1.15	0.97	0.81	0.67	0.54	0.42	0.32	0.24	
13.28	DISCHG 0.16	0.10	0.06	0.02	0.01	0.00					

RUNOFF VOLUME ABOVE BASEFLOW = 1.64 WATERSHED INCHES; 19073.02 CFS-HRS; 1576.19 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 8

OUTPUT HYDROGRAPH= 6
AREA= 17.13 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.20 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0815 HOURS

PEAK TIME(HRS) 3.04 PEAK DISCHARGE(CFS) 6670.52 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 17.13 SQ.MI.								
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0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.48	77.71	198.36
1.66	DISCHG	384.80	625.25	913.11	1255.95	1664.70	2118.43	2704.68	3322.80	3951.48	4543.76
2.49	DISCHG	5078.91	5538.57	5920.37	6214.62	6424.26	6567.65	6655.27	6665.30	6598.69	6487.10
3.32	DISCHG	6342.73	6170.30	5959.87	5711.14	5415.48	5085.13	4762.53	4466.54	4206.32	3975.82
4.15	DISCHG	3759.82	3561.47	3378.11	3215.90	3069.78	2934.34	2806.15	2681.12	2563.60	2454.89
4.98	DISCHG	2356.82	2265.83	2179.85	2098.05	2021.17	1949.03	1890.56	1816.18	1754.69	1693.42
5.81	DISCHG	1632.28	1573.91	1517.19	1460.84	1404.76	1349.09	1294.23	1240.48	1187.67	1134.99
6.64	DISCHG	1081.67	1028.15	974.75	920.85	866.71	813.36	761.01	709.67	659.66	611.42
7.47	DISCHG	565.89	523.15	482.57	444.03	407.48	372.90	340.28	309.59	280.96	254.43
8.30	DISCHG	230.13	207.99	187.69	168.95	151.52	135.29	121.67	110.37	100.24	91.01
9.13	DISCHG	82.63	75.00	68.10	61.87	56.22	51.06	46.35	42.06	38.16	34.59
9.96	DISCHG	31.34	28.37	25.66	23.22	21.00	19.00	17.19	15.54	14.03	12.65
10.79	DISCHG	11.38	10.23	9.18	8.22	7.34	6.54	5.82	5.16	4.57	4.03
11.62	DISCHG	3.53	3.09	2.68	2.32	2.00	1.72	1.47	1.24	1.05	0.88
12.45	DISCHG	0.73	0.59	0.47	0.36	0.26	0.18	0.12	0.07	0.03	0.01
13.28	DISCHG	0.00									

RUNOFF VOLUME ABOVE BASEFLOW = 1.61 WATERSHED INCHES, 17850.04 CFS-HRS, 1475.13 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 9

OUTPUT HYDROGRAPH= 6
AREA= 16.84 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.14 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0839 HOURS

PEAK TIME(HRS) 2.99
PEAK DISCHARGE(CFS) 6741.78
PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 16.84 SQ.MI.								
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.78	89.83	221.50
1.66	DISCHG	426.80	685.38	989.91	1367.29	1809.77	2340.55	2945.07	3598.86	4237.69	4839.20
2.49	DISCHG	5356.50	5794.86	6148.61	6403.89	6583.76	6697.27	6741.77	6699.61	6595.29	6457.04
3.32	DISCHG	6283.65	6075.32	5822.61	5522.19	5186.46	4849.98	4536.58	4262.02	4023.08	3798.38
4.15	DISCHG	3591.23	3401.15	3231.23	3080.10	2938.62	2804.69	2675.11	2553.83	2444.28	2343.79
4.98	DISCHG	2252.08	2164.13	2081.20	2003.90	1931.14	1863.36	1799.54	1738.64	1677.44	1617.97
5.81	DISCHG	1562.39	1506.66	1451.40	1396.38	1341.76	1288.35	1235.74	1184.11	1132.03	1079.68
6.64	DISCHG	1027.92	975.61	922.57	869.63	817.21	764.77	712.92	662.21	614.02	569.12
7.47	DISCHG	525.90	484.47	444.95	407.13	371.97	338.45	306.90	277.40	250.04	225.02
8.30	DISCHG	202.28	181.44	162.25	144.86	130.83	118.49	107.39	97.36	88.22	79.93
9.13	DISCHG	72.41	65.60	59.45	53.87	48.80	44.18	39.99	36.16	32.67	29.50
9.96	DISCHG	26.64	24.05	21.70	19.59	17.68	15.94	14.36	12.91	11.59	10.39
10.79	DISCHG	9.30	8.30	7.40	6.58	5.84	5.17	4.56	4.00	3.50	3.05
11.62	DISCHG	2.64	2.28	1.96	1.68	1.43	1.21	1.02	0.85	0.70	0.56
12.45	DISCHG	0.44	0.33	0.24	0.16	0.10	0.05	0.02	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.62 WATERSHED INCHES, 17628.30 CFS-HRS, 1456.80 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 10

OUTPUT HYDROGRAPH= 6
AREA= 16.28 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.06 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0808 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.94		6673.72				(RUNOFF)						
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 16.28 SQ.MI.				
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.21	87.50	225.44	
1.66	DISCHG	433.79	701.17	1024.17	1417.82	1889.74	2450.37	3088.00	3757.81	4406.40	4996.00	
2.49	DISCHG	5494.49	5910.27	6225.24	6443.97	6590.70	6667.44	6656.90	6561.00	6426.22	6255.72	
3.32	DISCHG	6047.53	5795.05	5489.98	5145.85	4797.22	4475.15	4193.64	3949.57	3721.29	3510.37	
4.15	DISCHG	3318.11	3147.88	2995.09	2851.36	2714.12	2583.39	2463.58	2355.53	2257.75	2166.02	
4.98	DISCHG	2079.07	1997.99	1922.36	1852.24	1787.22	1726.17	1665.80	1607.97	1554.25	1501.24	
5.81	DISCHG	1448.48	1395.59	1343.14	1291.66	1241.04	1191.17	1140.93	1091.19	1042.11	992.50	
6.64	DISCHG	942.65	893.06	842.97	791.93	740.67	690.30	642.01	595.93	551.51	508.62	
7.47	DISCHG	467.29	427.75	390.18	354.62	321.02	289.35	259.75	232.42	207.48	184.78	
8.30	DISCHG	164.96	148.43	133.97	121.00	109.34	98.82	89.30	80.68	72.84	65.72	
9.13	DISCHG	59.34	53.59	48.39	43.66	39.36	35.46	31.90	28.73	25.87	23.27	
9.96	DISCHG	20.93	18.82	16.92	15.19	13.62	12.19	10.89	9.72	8.66	7.70	
10.79	DISCHG	6.83	6.05	5.33	4.69	4.11	3.58	3.11	2.69	2.31	1.98	
11.62	DISCHG	1.69	1.44	1.21	1.02	0.85	0.70	0.55	0.43	0.32	0.23	
12.45	DISCHG	0.15	0.09	0.04	0.02	0.00						

RUNOFF VOLUME ABOVE BASEFLOW = 1.61 WATERSHED INCHES, 16896.46 CFS-HRS, 1396.32 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 11

OUTPUT HYDROGRAPH= 6

AREA= 13.90 SQ MI INPUT RUNOFF CURVE= 79, TIME OF CONCENTRATION= 1.92 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0853 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.83		5710.30				(RUNOFF)						
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 13.90 SQ.MI.				
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.98	85.81	220.76	
1.66	DISCHG	418.52	679.09	998.13	1382.06	1853.33	2411.35	3018.20	3621.65	4169.22	4651.77	
2.49	DISCHG	5041.71	5325.50	5529.74	5657.09	5709.45	5680.62	5582.30	5443.02	5273.72	5061.80	
3.32	DISCHG	4795.02	4485.96	4163.23	3869.86	3610.36	3382.95	3177.71	2986.40	2813.34	2661.91	
4.15	DISCHG	2523.89	2393.29	2268.88	2152.60	2047.97	1955.93	1871.74	1791.70	1717.18	1648.30	
4.98	DISCHG	1584.29	1526.22	1472.70	1420.89	1372.88	1329.28	1286.76	1245.10	1204.05	1162.51	
5.81	DISCHG	1121.10	1080.15	1038.46	997.16	957.01	916.51	876.32	836.98	797.34	756.83	
6.64	DISCHG	715.61	674.36	633.09	591.67	550.52	510.10	470.74	432.52	395.50	359.85	
7.47	DISCHG	325.84	293.57	263.09	234.41	208.05	185.06	165.37	148.03	132.72	119.10	
8.30	DISCHG	106.90	96.00	86.24	77.45	69.50	62.32	55.83	50.04	44.86	40.17	
9.13	DISCHG	35.93	32.17	28.80	25.74	23.04	20.60	18.40	16.42	14.64	13.04	
9.96	DISCHG	11.60	10.30	9.13	8.09	7.16	6.31	5.56	4.87	4.26	3.70	
10.79	DISCHG	3.21	2.77	2.37	2.02	1.72	1.46	1.24	1.04	0.87	0.72	
11.62	DISCHG	0.58	0.45	0.34	0.25	0.17	0.11	0.06	0.02	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.53 WATERSHED INCHES, 13740.78 CFS-HRS, 1135.54 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 12

OUTPUT HYDROGRAPH= 6
AREA= 13.41 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 1.89 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0840 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)		PEAK ELEVATION(FEET)							
2.81		5516.08		(RUNOFF)							
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 13.41 SQ. MI.							
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.16	84.50	220.77
1.66	DISCHG	419.69	682.18	1001.22	1383.85	1865.31	2422.97	3028.31	3608.63	4133.77	4591.37
2.49	DISCHG	4944.08	5203.15	5383.33	5488.23	5515.09	5463.19	5353.36	5207.24	5028.19	4799.87
3.32	DISCHG	4521.43	4209.27	3902.22	3629.20	3389.03	3177.38	2983.46	2803.22	2643.85	2503.66
4.15	DISCHG	2372.01	2246.84	2128.16	2019.57	1923.93	1839.69	1759.49	1684.36	1615.31	1550.65
4.98	DISCHG	1491.74	1438.80	1387.56	1339.56	1297.09	1256.14	1216.26	1177.46	1138.56	1099.48
5.81	DISCHG	1060.68	1020.98	981.15	942.66	903.90	865.28	827.96	790.09	751.70	712.76
6.64	DISCHG	673.93	634.99	595.23	555.24	515.56	476.63	438.77	401.97	366.29	332.06
7.47	DISCHG	299.45	268.57	239.49	212.55	189.50	169.07	151.00	135.10	121.01	108.46
8.30	DISCHG	97.26	87.23	78.23	70.12	62.80	56.21	50.29	45.01	40.25	35.96
9.13	DISCHG	32.15	28.73	25.66	22.91	20.45	18.24	16.25	14.46	12.86	11.42
9.96	DISCHG	10.13	8.96	7.93	7.00	6.17	5.42	4.74	4.14	3.59	3.10
10.79	DISCHG	2.67	2.29	1.95	1.65	1.40	1.19	1.00	0.83	0.68	0.55
11.62	DISCHG	0.43	0.32	0.23	0.15	0.10	0.05	0.02	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.52 WATERSHED INCHES; 13132.83 CFS-HRS; 1085.30 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 13

OUTPUT HYDROGRAPH= 6
AREA= 13.28 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 1.85 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0822 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)		PEAK ELEVATION(FEET)							
2.78		5565.24		(RUNOFF)							
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 13.28 SQ. MI.							
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.17	10.66	81.77	220.40
1.66	DISCHG	425.32	696.90	1028.50	1429.25	1932.24	2513.80	3138.09	3729.45	4261.29	4714.30
2.49	DISCHG	5055.62	5303.31	5468.63	5554.60	5556.43	5480.60	5352.38	5189.27	4985.97	4727.42
3.32	DISCHG	4421.67	4096.48	3795.26	3529.87	3298.12	3090.63	2898.07	2724.15	2572.21	2433.08
4.15	DISCHG	2301.24	2175.88	2059.54	1956.71	1866.63	1782.84	1704.57	1632.16	1564.48	1503.26
4.98	DISCHG	1447.70	1394.74	1346.17	1302.47	1261.33	1221.87	1183.50	1145.47	1107.86	1069.76
5.81	DISCHG	1030.51	991.44	952.91	914.36	876.69	839.67	802.35	764.44	726.72	689.39
6.64	DISCHG	651.55	612.63	573.00	533.21	493.78	455.16	417.48	380.81	345.37	311.40
7.47	DISCHG	279.17	248.77	221.81	197.68	176.01	156.75	139.83	124.91	111.72	99.94
8.30	DISCHG	89.42	80.00	71.57	63.96	57.12	50.97	45.49	40.57	36.19	32.30
9.13	DISCHG	28.80	25.66	22.87	20.37	18.12	16.10	14.29	12.67	11.23	9.93
9.96	DISCHG	8.77	7.73	6.82	5.99	5.24	4.57	3.97	3.43	2.96	2.54
10.79	DISCHG	2.16	1.83	1.55	1.31	1.11	0.93	0.77	0.62	0.49	0.38

11.62 DISCHG 0.28 0.19 0.12 0.07 0.03 0.01 0.00

RUNOFF VOLUME ABOVE BASEFLOW = 1.52 WATERSHED INCHES, 13003.73 CFS-HRS, 1074.63 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 14

OUTPUT HYDROGRAPH= 6
AREA= 12.75 SQ MI INPUT RUNOFF CURVE= 78, TIME OF CONCENTRATION= 1.81 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0804 HOURS

PEAK TIME(HRS) 2.75 PEAK DISCHARGE(CFS) 5307.92 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 12.75 SQ.MI.								
0.83	DISCHG 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.45	82.05	218.03
1.66	DISCHG 419.58	686.52	1012.98	1413.40	1912.64	2487.75	3094.45	3659.45	4164.75	4584.34	
2.49	DISCHG 4889.74	5109.99	5248.56	5306.53	5279.31	5181.54	5041.74	4868.82	4619.64	4374.02	
3.32	DISCHG 4062.66	3752.10	3478.07	3238.80	3028.74	2837.15	2660.74	2505.45	2367.17	2237.05	
4.15	DISCHG 2113.01	1996.67	1892.16	1801.85	1719.50	1642.29	1571.29	1504.65	1443.71	1389.41	
4.98	DISCHG 1337.42	1289.30	1247.54	1208.28	1170.98	1135.27	1100.00	1065.35	1030.66	994.33	
5.81	DISCHG 957.66	921.39	884.95	849.39	814.56	779.35	743.71	708.33	673.62	638.51	
6.64	DISCHG 602.21	564.88	526.93	488.98	451.44	414.60	378.63	343.68	309.98	277.84	
7.47	DISCHG 248.18	221.93	197.87	175.93	156.31	139.01	123.86	110.52	98.65	88.06	
8.30	DISCHG 78.61	70.17	62.59	55.79	49.68	44.21	39.34	35.02	31.18	27.74	
9.13	DISCHG 24.67	21.93	19.48	17.28	15.31	13.55	11.98	10.59	9.33	8.22	
9.96	DISCHG 7.24	6.36	5.56	4.85	4.21	3.64	3.14	2.69	2.30	1.95	
10.79	DISCHG 1.65	1.39	1.18	0.99	0.82	0.67	0.54	0.42	0.31	0.22	
11.62	DISCHG 0.15	0.09	0.04	0.02	0.00						

RUNOFF VOLUME ABOVE BASEFLOW = 1.18 WATERSHED INCHES, 12210.01 CFS-HRS, 1009.04 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 15

OUTPUT HYDROGRAPH= 6
AREA= 9.71 SQ MI INPUT RUNOFF CURVE= 76, TIME OF CONCENTRATION= 1.63 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0836 HOURS

PEAK TIME(HRS) 2.62 PEAK DISCHARGE(CFS) 3930.18 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 9.71 SQ.MI.								
0.83	DISCHG 0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.49	68.39	196.51	
1.66	DISCHG 379.99	612.82	914.93	1299.44	1755.04	2251.41	2723.86	3120.68	3440.06	3678.33	
2.49	DISCHG 3832.88	3920.23	3923.32	3859.77	3756.21	3616.72	3431.68	3201.81	2942.88	2695.27	
3.32	DISCHG 2489.48	2311.46	2150.23	2004.46	1878.87	1766.74	1661.11	1559.69	1467.02	1385.47	
4.15	DISCHG 1312.86	1246.91	1187.16	1132.73	1083.24	1037.98	995.48	957.70	924.10	893.47	
4.98	DISCHG 865.88	840.86	817.57	794.94	772.46	750.43	728.04	704.88	681.24	656.77	
5.81	DISCHG 631.51	606.50	582.19	558.05	533.80	509.32	484.54	459.37	433.53	406.69	
6.64	DISCHG 378.91	350.56	322.08	294.64	268.74	243.59	219.48	196.63	175.21	155.33	
7.47	DISCHG 137.07	120.51	105.81	92.98	81.87	72.16	63.60	56.06	49.39	43.50	
8.30	DISCHG 38.28	33.68	29.62	26.07	22.94	20.16	17.69	15.51	13.58	11.87	

9.13	DISCHG	10.37	9.06	7.90	6.88	5.99	5.21	4.51	3.88	3.33	2.84
9.96	DISCHG	2.42	2.04	1.72	1.44	1.21	1.01	0.85	0.70	0.57	0.45
10.79	DISCHG	0.35	0.26	0.18	0.12	0.07	0.03	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.35 WATERSHED INCHES; 8434.65 CFS-HRS; 697.04 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 16

OUTPUT HYDROGRAPH= 6
AREA= 6.47 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.46 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0811 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)					
2.51		2793.04				(RUNOFF)					
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 6.47 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.01	55.27	158.21
1.66	DISCHG	312.91	517.14	779.83	1110.98	1492.05	1866.98	2192.10	2450.01	2632.51	2744.92
2.49	DISCHG	2791.77	2771.09	2701.68	2598.14	2459.99	2280.09	2074.65	1882.59	1719.10	1579.12
3.32	DISCHG	1456.12	1350.07	1259.26	1176.39	1098.35	1026.29	962.45	904.94	852.74	806.56
4.15	DISCHG	745.23	727.83	693.19	662.79	636.91	613.27	591.81	572.77	555.82	540.11
4.98	DISCHG	525.42	511.66	498.57	485.94	473.12	459.87	446.42	432.41	417.34	401.28
5.81	DISCHG	384.61	367.67	350.75	333.93	317.09	300.16	283.73	267.88	251.76	235.07
6.64	DISCHG	217.81	200.09	182.25	164.63	147.49	130.99	115.52	101.24	88.14	76.33
7.47	DISCHG	65.96	57.11	49.54	43.04	37.40	32.52	28.28	24.56	21.29	18.45
8.30	DISCHG	15.99	13.84	11.96	10.33	8.91	7.67	6.60	5.68	4.89	4.19
9.13	DISCHG	3.58	3.05	2.59	2.18	1.83	1.53	1.27	1.05	0.87	0.72
9.96	DISCHG	0.60	0.49	0.39	0.30	0.22	0.16	0.10	0.06	0.03	0.01
10.79	DISCHG	0.00									

RUNOFF VOLUME ABOVE BASEFLOW = 1.31 WATERSHED INCHES; 5485.57 CFS-HRS; 453.33 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 17

OUTPUT HYDROGRAPH= 6
AREA= 4.98 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.27 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0847 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)					
2.37		2372.66				(RUNOFF)					
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 4.98 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.97	57.37	170.30
1.66	DISCHG	339.82	570.52	876.61	1244.77	1613.44	1923.44	2151.37	2293.96	2364.60	2364.63
2.49	DISCHG	2300.32	2198.62	2054.67	1867.07	1665.97	1493.16	1350.74	1225.54	1119.73	1031.40
3.32	DISCHG	952.52	880.32	818.48	764.48	714.18	668.29	626.10	589.46	555.83	526.76
4.15	DISCHG	500.91	479.34	461.37	445.67	431.57	419.39	407.64	397.08	386.97	377.26
4.98	DISCHG	368.97	361.27	353.51	345.31	336.52	326.92	315.86	303.19	289.61	276.34
5.81	DISCHG	263.39	250.73	238.68	227.16	215.93	204.86	193.75	182.26	169.86	156.34
6.64	DISCHG	142.09	127.59	113.17	99.19	86.05	73.99	63.04	53.37	45.16	38.35
7.47	DISCHG	32.63	27.79	23.66	20.12	17.07	14.47	12.27	10.39	8.78	7.43

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8.30	DISCHG	6.27	5.28	4.45	3.74	3.13	2.61	2.17	1.79	1.47	1.20
9.13	DISCHG	0.98	0.81	0.66	0.53	0.43	0.33	0.25	0.18	0.12	0.08
9.96	DISCHG	0.04	0.02	0.00							

RUNOFF VOLUME ABOVE BASEFLOW = 1.30 WATERSHED INCHES, 4160.31 CFS-HRS, 343.81 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 18

OUTPUT HYDROGRAPH= 6
AREA= 2.85 SQ MI INPUT RUNOFF CURVE= 72. TIME OF CONCENTRATION= 0.91 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0867 HOURS

PEAK TIME(HRS) 2.11 PEAK DISCHARGE(CFS) 1449.87 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 2.85 SQ.MI.
0.83	DISCHG	0.00	0.00	10.72
1.66	DISCHG	376.83	649.99	63.98
2.49	DISCHG	940.12	918.96	183.17
3.32	DISCHG	332.16	313.90	1085.57
4.15	DISCHG	203.88	200.91	407.97
4.98	DISCHG	170.36	168.45	377.77
5.81	DISCHG	112.24	106.17	207.57
6.64	DISCHG	45.86	37.46	212.97
7.47	DISCHG	4.84	3.82	178.65
8.30	DISCHG	0.40	0.30	175.36

RUNOFF VOLUME ABOVE BASEFLOW = 1.09 WATERSHED INCHES, 2012.49 CFS-HRS, 166.31 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 19

OUTPUT HYDROGRAPH= 6
AREA= 5.37 SQ MI INPUT RUNOFF CURVE= 84. TIME OF CONCENTRATION= 1.76 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0838 HOURS

PEAK TIME(HRS) 2.69 PEAK DISCHARGE(CFS) 3077.68 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 5.37 SQ.MI.
0.83	DISCHG	0.00	0.00	9.15
1.66	DISCHG	287.58	458.27	60.05
2.49	DISCHG	2929.84	3026.42	154.30
3.32	DISCHG	2142.11	1964.96	2778.85
4.15	DISCHG	1060.77	999.27	2297.62
4.98	DISCHG	648.81	625.38	2570.15
5.81	DISCHG	454.82	436.47	2689.92
6.64	DISCHG	279.75	261.25	2528.71
7.47	DISCHG	109.87	97.89	1282.65
8.30	DISCHG	33.72	29.99	1204.37
9.13	DISCHG	10.20	9.03	1129.78
9.96	DISCHG	2.84	2.48	705.58

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		0.59	0.49	0.41	0.34	0.27	0.21	0.15	0.11	0.07	0.04
10.79	DISCHG										
11.62	DISCHG	0.02	0.01	0.00							

RUNOFF VOLUME ABOVE BASEFLOW = 1.91 WATERSHED INCHES, 6626.14 CFS-HRS, 547.58 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 20
OUTPUT HYDROGRAPH= 6
AREA= 2.15 SQ MI INPUT RUNOFF CURVE= B2, TIME OF CONCENTRATION= 0.71 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0789 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET) (RUNOFF)									
1.93	2466.82	(RUNOFF)									
4.16	190.54	(RUNOFF)									

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 2.15 SQ.MI.								
0.83	DISCHG 0.00	0.00	23.48	202.07	577.14						
1.66	DISCHG 1174.72	1853.67	1494.26	1231.84	1026.86						
2.49	DISCHG 861.62	726.16	337.11	319.61	304.77						
3.32	DISCHG 292.23	277.94	192.04	190.13	190.06						
4.15	DISCHG 190.53	190.30	168.25	165.85	164.17						
4.98	DISCHG 162.86	161.33	116.52	107.77	100.59						
5.81	DISCHG 95.30	91.51	56.01	45.11	34.92						
6.64	DISCHG 26.28	19.52	3.37	2.49	1.85						
7.47	DISCHG 1.37	1.00	0.09	0.04	0.01						
8.30	DISCHG 0.00	0.00									

RUNOFF VOLUME ABOVE BASEFLOW = 1.79 WATERSHED INCHES, 2482.51 CFS-HRS, 205.15 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 21
OUTPUT HYDROGRAPH= 6
AREA= 1.69 SQ MI INPUT RUNOFF CURVE= 75, TIME OF CONCENTRATION= 0.80 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0889 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET) (RUNOFF)									
2.01	1150.30	(RUNOFF)									

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 1.69 SQ.MI.								
0.83	DISCHG 0.00	0.00	5.66	69.94	203.65						
1.66	DISCHG 416.24	689.17	923.20	774.40	657.57						
2.49	DISCHG 551.94	487.86	234.78	220.44	208.84						
3.32	DISCHG 198.77	189.06	133.21	129.32	126.82						
4.15	DISCHG 126.02	125.59	112.71	110.75	109.38						
4.98	DISCHG 108.37	107.39	81.94	76.23	71.17						
5.81	DISCHG 67.03	63.91	41.82	35.25	28.82						
6.64	DISCHG 22.89	17.81	3.75	2.88	2.20						
7.47	DISCHG 1.67	1.27	0.23	0.16	0.11						
8.30	DISCHG 0.07	0.04									

RUNOFF VOLUME ABOVE BASEFLOW = 1.27 WATERSHED INCHES, 1390.18 CFS-HRS, 114.88 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 22

OUTPUT HYDROGRAPH= 6
AREA= 0.50 SQ MI INPUT RUNOFF CURVE= 74. TIME OF CONCENTRATION= 0.34 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0453 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
1.69	647.98	(RUNOFF)
3.02	52.78	(RUNOFF)
4.09	36.72	(RUNOFF)
4.94	30.18	(RUNOFF)
5.95	15.46	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 0.50 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	3.07 95.00 405.75
1.66	DISCHG 630.11 597.42 427.68 293.55	212.28 164.81 130.39	102.05 81.38 69.73
2.49	DISCHG 63.25 57.86 51.25 43.36	39.30 14.66 52.05	51.47 48.85 47.20
3.32	DISCHG 43.51 38.04 33.91 32.02	31.87 32.79 33.82	34.52 35.48 36.66
4.15	DISCHG 36.35 31.50 32.49 31.26	30.64 30.32 30.16	30.10 30.09 30.11
4.98	DISCHG 30.14 29.75 27.80 24.20	20.23 17.81 16.85	15.99 15.60 15.64
5.81	DISCHG 15.33 15.18 15.43 14.65	11.83 7.86 4.49	2.43 1.34 0.73
6.64	DISCHG 0.39 0.21 0.11 0.05	0.02 0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 1.21 WATERSHED INCHES, 389.60 CFS-HRS, 32.20 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 23

OUTPUT HYDROGRAPH= 6
AREA= 24.36 SQ MI INPUT RUNOFF CURVE= 81. TIME OF CONCENTRATION= 3.26 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0836 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
3.82	7332.64	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 24.36 SQ.MI.
0.83	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	8.05 59.51 125.55
1.66	DISCHG 224.98 367.57 527.68 718.54	928.87 1161.58 1436.12	1732.90 2074.40 2455.31
2.49	DISCHG 2859.94 3314.43 3788.79 4254.37	4701.04 5135.98 5520.81	5874.68 6200.07 6467.53
3.32	DISCHG 6704.32 6893.03 7035.04 7154.06	7240.77 7305.21 7332.63	7306.98 7253.89 7181.11
4.15	DISCHG 7092.23 6990.90 6871.71 6737.63	6582.45 6404.12 6209.61	5986.49 5743.57 5503.19
4.98	DISCHG 5274.75 5055.00 4858.53 4683.49	4516.26 4359.09 4208.69	4064.71 3929.32 3798.78
5.81	DISCHG 3678.51 3567.11 3458.19 3352.88	3248.73 3113.94 3038.56	2933.10 2831.37 2733.54
6.64	DISCHG 2638.34 2547.51 2458.48 2370.16	2282.81 2195.56 2109.66	2024.81 1940.35 1857.19
7.47	DISCHG 1775.04 1695.21 1618.07 1541.42	1465.19 1389.91 1317.45	1249.36 1183.22 1119.37
8.30	DISCHG 1057.86 998.66 942.42 888.67	837.47 789.05 742.80	699.16 657.77 618.14
9.13	DISCHG 580.15 544.06 510.52 479.55	450.27 422.57 396.44	372.29 350.35 329.59
9.96	DISCHG 309.92 291.22 273.41 256.47	240.50 226.03 213.07	200.84 189.27 178.29
10.79	DISCHG 167.85 157.95 148.53 139.58	131.04 122.88 115.05	107.54 100.35 93.42
11.62	DISCHG 86.74 80.31 74.11 68.13	62.36 56.77 51.35	46.08 41.24 38.10
12.45	DISCHG 35.31 32.78 30.46 28.30	26.32 24.49 22.79	21.20 19.71 18.32

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13.28	DISCHG	17.02	15.81	14.66	13.57	12.54	11.60	10.73	9.92	9.17	8.47
14.11	DISCHG	7.81	7.19	6.60	6.04	5.51	5.02	4.56	4.13	3.74	3.38
14.94	DISCHG	3.04	2.73	2.43	2.16	1.90	1.67	1.45	1.25	1.07	0.91
15.77	DISCHG	0.77	0.65	0.54	0.45	0.36	0.28	0.21	0.15	0.10	0.06
16.60	DISCHG	0.03	0.01	0.00							

RUNOFF VOLUME ABOVE BASEFLOW = 1.72 WATERSHED INCHES; 27089.22 CFS-HRS; 2238.65 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 24
 OUTPUT HYDROGRAPH= 6
 AREA= 26.43 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 3.66 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0841 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)									
4.14	6190.37	(RUNOFF)									
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS TIME INCREMENT = 0.08 HOURS DRAINAGE AREA = 26.43 SQ.MI.										
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.04	39.36	84.32
1.66	DISCHG	142.96	237.13	348.69	472.56	616.54	773.09	945.80	1144.31	1360.12	1598.56
2.49	DISCHG	1869.01	2160.38	2473.18	2812.12	3164.60	3510.95	3845.46	4172.72	4477.39	4753.04
3.32	DISCHG	5013.26	5244.57	5441.82	5622.78	5771.45	5882.20	5980.63	6061.71	6123.01	6172.79
4.15	DISCHG	6190.29	6167.71	6134.85	6089.39	6031.00	5964.57	5886.97	5797.94	5699.75	5585.47
4.98	DISCHG	5455.17	5313.86	5154.39	4980.44	4804.72	4638.21	4476.53	4318.94	4182.95	4056.02
5.81	DISCHG	3931.59	3816.06	3702.46	3590.72	3488.27	3386.08	3285.43	3195.22	3104.37	3013.86
6.64	DISCHG	2926.87	2839.21	2750.81	2662.16	2573.13	2485.55	2401.06	2317.03	2234.85	2155.52
7.47	DISCHG	2076.62	1998.08	1920.14	1842.68	1766.94	1693.04	1620.27	1549.21	1479.71	1411.53
8.30	DISCHG	1346.12	1283.10	1221.49	1160.99	1101.70	1044.26	990.56	940.01	891.39	845.01
9.13	DISCHG	800.65	758.03	717.42	678.66	641.59	606.54	573.40	542.11	512.93	485.54
9.96	DISCHG	459.48	434.63	410.92	388.56	367.75	348.12	329.40	311.48	294.35	278.30
10.79	DISCHG	263.66	249.86	236.66	224.00	211.84	200.17	188.96	178.22	168.31	159.67
11.62	DISCHG	151.51	143.79	136.45	129.44	122.73	116.30	110.13	104.22	98.55	93.10
12.45	DISCHG	87.85	82.78	77.87	73.12	68.53	64.09	59.79	55.61	51.55	47.62
13.28	DISCHG	43.79	40.06	36.40	32.82	29.52	27.22	25.33	23.61	22.04	20.58
14.11	DISCHG	19.23	17.98	16.82	15.71	14.67	13.69	12.77	11.90	11.09	10.31
14.94	DISCHG	9.58	8.91	8.28	7.69	7.14	6.62	6.12	5.65	5.20	4.77
15.77	DISCHG	4.37	4.00	3.65	3.32	3.01	2.73	2.46	2.21	1.97	1.75
16.60	DISCHG	1.54	1.35	1.17	1.01	0.87	0.74	0.63	0.53	0.44	0.36
17.43	DISCHG	0.29	0.23	0.17	0.12	0.08	0.05	0.03	0.01	0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 1.50 WATERSHED INCHES; 25542.79 CFS-HRS; 2110.86 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 25
 OUTPUT HYDROGRAPH= 6
 AREA= 24.49 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 3.66 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0841 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
4.15	5424.66	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 24.49 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83	33.53	72.43
1.66	DISCHG	122.85	204.36	301.20	408.70	533.87	670.06	820.21	992.98	1180.87	1388.34
2.49	DISCHG	1623.88	1877.77	2150.33	2445.89	2753.70	3056.56	3349.24	3635.98	3903.44	4145.56
3.32	DISCHG	4374.50	4578.52	4752.67	4912.83	5045.10	5144.03	5232.18	5305.25	5360.87	5406.70
4.15	DISCHG	5124.66	5407.31	5380.87	5343.35	5294.39	5238.33	5172.46	5096.50	5012.58	4914.63
4.98	DISCHG	4802.56	4680.89	4543.35	4392.93	4240.63	4096.18	3955.86	3818.67	3700.25	3589.76
5.81	DISCHG	3481.29	3380.60	3281.57	3183.99	3094.52	3005.24	2917.05	2838.00	2758.34	2678.83
6.64	DISCHG	2602.39	2525.30	2447.52	2369.48	2291.05	2213.77	2139.17	2064.89	1992.14	1921.84
7.47	DISCHG	1851.89	1782.20	1713.00	1644.20	1576.86	1511.13	1446.39	1383.13	1321.24	1260.50
8.30	DISCHG	1202.17	1145.97	1091.01	1037.06	984.20	932.95	885.00	839.85	796.42	754.99
9.13	DISCHG	715.37	677.29	641.01	606.37	573.24	541.92	512.30	484.33	458.24	433.76
9.96	DISCHG	410.47	388.28	367.10	347.13	328.53	310.99	294.27	278.28	262.98	248.64
10.79	DISCHG	235.55	223.21	211.42	200.11	189.25	178.84	168.83	159.25	150.39	142.65
11.62	DISCHG	135.35	128.45	121.88	115.61	109.61	103.86	98.36	93.08	88.02	83.16
12.45	DISCHG	78.48	73.96	69.59	65.36	61.27	57.32	53.50	49.78	46.18	42.68
13.28	DISCHG	39.29	35.97	32.73	29.55	26.61	24.54	22.84	21.30	19.88	18.57
14.11	DISCHG	17.35	16.23	15.17	14.18	13.24	12.35	11.52	10.74	10.01	9.31
14.94	DISCHG	8.65	8.04	7.47	6.94	6.44	5.97	5.53	5.10	4.69	4.31
15.77	DISCHG	3.95	3.61	3.29	3.00	2.72	2.46	2.22	1.99	1.78	1.58
16.60	DISCHG	1.39	1.22	1.06	0.92	0.79	0.67	0.57	0.48	0.40	0.33
17.43	DISCHG	0.26	0.21	0.16	0.11	0.08	0.05	0.02	0.01	0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 1.42 WATERSHED INCHES, 22506.02 CFS-HRS, 1859.90 ACRE-Feet; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 26

OUTPUT HYDROGRAPH= 6

AREA= 23.18 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 3.09 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0824 HOURS

PEAK TIME(HRS) 3.72
PEAK DISCHARGE(CFS) 5859.13
PEAK ELEVATION(FeET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 23.18 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.97	42.00	96.04
1.66	DISCHG	179.11	295.02	428.55	589.64	768.09	972.19	1203.98	1458.55	1761.41	2091.31
2.49	DISCHG	2451.03	2840.44	3236.54	3612.26	3977.00	4312.85	4617.78	4898.10	5127.94	5328.76
3.32	DISCHG	5491.03	5615.33	5717.03	5792.35	5845.11	5858.77	5834.70	5790.95	5729.98	5656.23
4.15	DISCHG	5568.86	5468.82	5351.67	5210.90	5053.20	4874.78	4678.49	4481.79	4296.25	4119.90
4.98	DISCHG	3961.73	3818.41	3683.45	3556.99	3435.64	3320.71	3210.99	3108.57	3014.78	2924.84
5.81	DISCHG	2838.27	2753.52	2668.64	2583.32	2498.75	2416.51	2335.83	2258.83	2185.28	2112.69
6.64	DISCHG	2040.72	1968.61	1897.49	1827.39	1757.57	1688.08	1618.44	1550.26	1483.56	1417.08
7.47	DISCHG	1350.49	1283.94	1219.71	1157.93	1097.85	1039.40	982.46	927.67	874.93	824.30
8.30	DISCHG	776.04	729.93	686.41	645.20	605.84	567.96	531.55	497.53	465.64	435.51
9.13	DISCHG	407.01	380.11	355.68	333.25	312.29	292.54	273.82	256.13	239.38	223.98
9.96	DISCHG	210.14	197.36	185.38	174.04	163.34	153.19	143.55	134.40	125.73	117.52
10.79	DISCHG	109.72	102.28	95.21	88.41	81.90	75.66	69.69	63.96	58.44	53.14
11.62	DISCHG	48.02	43.13	39.54	36.56	33.85	31.38	29.09	26.99	25.05	23.25

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12.45	DISCHG	21.58	20.02	18.57	17.21	15.95	14.77	13.65	12.60	11.62	10.73
13.28	DISCHG	9.90	9.13	8.42	7.75	7.12	6.53	5.97	5.45	4.96	4.50
14.11	DISCHG	4.07	3.68	3.31	2.98	2.68	2.39	2.12	1.87	1.64	1.43
14.94	DISCHG	1.24	1.06	0.91	0.77	0.65	0.54	0.45	0.36	0.28	0.21
15.77	DISCHG	0.16	0.11	0.07	0.04	0.01	0.00				

RUNOFF VOLUME ABOVE BASEFLOW = 1.42 WATERSHED INCHES, 21201.36 CFS-HRS, 1752.08 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 27
OUTPUT HYDROGRAPH= 6
AREA= 20.05 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 2.63 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0835 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)		PEAK ELEVATION(FEET)									
3.36	5729.44		(RUNOFF)									
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 20.05 SQ.MI.			
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.70	54.22	119.33	
1.66	DISCHG	242.88	391.01	572.46	776.14	1021.31	1298.21	1624.88	1994.92	2405.96	2854.38	
2.49	DISCHG	3302.13	3730.63	4134.11	4486.07	4805.97	5064.52	5288.96	5444.58	5569.72	5658.06	
3.32	DISCHG	5722.54	5719.24	5677.82	5610.83	5526.24	5423.19	5303.58	5157.77	4987.00	4789.62	
4.15	DISCHG	4566.78	4339.72	4123.57	3920.73	3744.75	3583.55	3434.09	3291.99	3161.26	3038.16	
4.98	DISCHG	2928.38	2826.42	2730.59	2638.89	2548.70	2459.22	2373.52	2291.80	2214.88	2142.68	
5.81	DISCHG	2073.33	2005.63	1939.42	1875.03	1811.60	1748.72	1686.33	1625.50	1565.49	1504.67	
6.64	DISCHG	1443.18	1383.46	1325.28	1267.16	1209.10	1151.21	1093.76	1036.86	980.86	925.96	
7.47	DISCHG	872.46	820.16	769.13	719.98	673.22	628.62	585.79	544.98	506.73	470.93	
8.30	DISCHG	436.87	404.56	373.90	344.99	318.51	294.82	273.11	253.13	234.65	217.49	
9.13	DISCHG	201.52	186.61	172.64	159.53	147.22	135.64	124.71	114.37	104.57	95.29	
9.96	DISCHG	86.51	78.22	70.40	63.55	58.30	53.54	49.20	45.23	41.58	38.24	
10.79	DISCHG	35.18	32.36	29.74	27.32	25.10	23.06	21.19	19.45	17.82	16.31	
11.62	DISCHG	14.95	13.69	12.53	11.46	10.48	9.56	8.71	7.93	7.20	6.52	
12.45	DISCHG	5.89	5.31	4.78	4.29	3.84	3.42	3.04	2.69	2.38	2.09	
13.28	DISCHG	1.83	1.59	1.37	1.17	0.99	0.84	0.71	0.59	0.48	0.38	
14.11	DISCHG	0.29	0.22	0.15	0.10	0.06	0.03	0.01	0.00			

RUNOFF VOLUME ABOVE BASEFLOW = 1.40 WATERSHED INCHES, 18170.71 CFS-HRS, 1501.63 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 28
OUTPUT HYDROGRAPH= 6
AREA= 13.13 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 2.63 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0835 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)		PEAK ELEVATION(FEET)									
3.36	3731.89		(RUNOFF)									
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 13.13 SQ.MI.			
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.02	35.23	77.57	
1.66	DISCHG	157.96	254.35	372.45	505.01	664.61	844.85	1057.50	1298.40	1566.00	1857.98	
2.49	DISCHG	2149.76	2428.65	2691.50	2920.81	3129.29	3297.82	3444.17	3545.70	3627.39	3685.10	

3.32	DISCHG	3727.30	3725.34	3498.59	3655.14	3600.23	3533.29	3455.56	3360.77	3249.72	3121.34
4.15	DISCHG	2976.35	2828.59	2687.91	2555.87	2411.30	2336.36	2239.05	2146.53	2061.41	1981.26
4.98	DISCHG	1909.77	1843.38	1780.98	1721.26	1662.53	1604.26	1548.44	1495.20	1445.09	1398.05
5.81	DISCHG	1352.87	1308.75	1265.60	1223.64	1182.29	1141.30	1100.62	1060.95	1021.82	982.15
6.64	DISCHG	942.04	903.09	865.13	827.21	789.32	751.54	714.05	676.91	640.36	604.53
7.47	DISCHG	569.60	535.46	502.15	470.07	439.54	410.42	382.46	355.82	330.84	307.47
8.30	DISCHG	285.23	264.14	244.12	225.24	207.95	192.49	178.31	165.27	153.20	142.00
9.13	DISCHG	131.57	121.84	112.71	104.16	96.12	88.56	81.43	74.68	68.28	62.23
9.96	DISCHG	56.50	51.09	45.98	41.51	38.08	34.97	32.14	29.54	27.16	24.98
10.79	DISCHG	22.98	21.14	19.43	17.85	16.40	15.07	13.84	12.70	11.64	10.65
11.62	DISCHG	9.76	8.94	8.18	7.49	6.85	6.25	5.69	5.18	4.70	4.26
12.45	DISCHG	3.85	3.47	3.12	2.80	2.51	2.24	1.99	1.76	1.55	1.37
13.28	DISCHG	1.19	1.04	0.89	0.76	0.65	0.55	0.46	0.38	0.31	0.25
14.11	DISCHG	0.19	0.14	0.10	0.07	0.04	0.02	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.40 WATERSHED INCHES; 11843.46 CFS-HRS; 978.74 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 29

OUTPUT HYDROGRAPH= 6

AREA= 10.72 SQ MI INPUT RUNOFF CURVE= 76, TIME OF CONCENTRATION= 1.96 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0817 HOURS

TIME(HRS)	PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
	2.88	3737.76	(RUNOFF)
0.83	FIRST HYDROGRAPH POINT = 0.00 HOURS	0.00	0.00
1.66	0.00	0.00	0.00
2.49	250.58	410.52	604.87
3.32	3200.29	3410.80	3563.69
4.15	3269.15	3092.97	2894.36
4.98	1778.86	1692.48	1610.21
5.81	1138.83	1097.80	1060.56
6.64	814.26	785.31	756.48
7.47	527.67	497.90	467.91
8.30	247.90	224.67	202.69
9.13	83.20	74.83	67.34
9.96	28.68	25.73	23.06
10.79	9.51	8.48	7.55
11.62	2.78	2.42	2.09
12.45	0.57	0.46	0.37
	0.00	0.00	0.00

RUNOFF VOLUME ABOVE BASEFLOW = 1.35 WATERSHED INCHES; 9349.94 CFS-HRS; 772.68 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 30

OUTPUT HYDROGRAPH= 6

AREA= 4.73 SQ MI INPUT RUNOFF CURVE= 75, TIME OF CONCENTRATION= 1.52 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0844 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.55		1984.05				(RUNOFF)						
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 4.73 SQ.MI.			
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.07	37.83	108.59	
1.66	DISCHG	212.51	348.34	521.71	739.71	997.64	1259.27	1492.37	1683.97	1827.64	1922.26	
2.49	DISCHG	1974.22	1982.12	1949.07	1890.72	1811.41	1708.12	1578.81	1438.87	1313.32	1206.74	
3.32	DISCHG	1114.64	1032.64	940.94	899.20	842.18	787.90	737.55	692.61	652.63	616.63	
4.15	DISCHG	584.64	555.58	529.29	505.30	483.41	464.99	447.99	432.58	418.85	406.65	
4.98	DISCHG	395.54	384.73	374.64	364.68	354.91	345.21	334.90	323.93	312.91	301.49	
5.81	DISCHG	289.67	277.69	265.67	253.64	241.57	229.39	217.13	204.61	191.79	179.18	
6.64	DISCHG	166.57	153.76	140.87	128.06	115.56	103.53	92.09	81.40	71.52	62.49	
7.47	DISCHG	54.38	47.30	41.21	35.95	31.38	27.41	23.94	20.93	18.27	15.93	
8.30	DISCHG	13.89	12.11	10.55	9.17	7.96	6.91	5.99	5.18	4.48	3.88	
9.13	DISCHG	3.35	2.89	2.48	2.12	1.81	1.53	1.29	1.08	0.91	0.75	
9.96	DISCHG	0.63	0.52	0.44	0.36	0.29	0.22	0.17	0.12	0.08	0.05	
10.79	DISCHG	0.03	0.01	0.00								

RUNOFF VOLUME ABOVE BASEFLOW = 1.32 WATERSHED INCHES; 4029.91 CFS-HRS; 333.03 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 31

OUTPUT HYDROGRAPH= 6

AREA= 1.69 SQ MI INPUT RUNOFF CURVE= 74. TIME OF CONCENTRATION= 0.93 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0886 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.10		1111.21				(RUNOFF)						
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 1.69 SQ.MI.			
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80	53.66	153.06	
1.66	DISCHG	308.54	524.98	756.01	942.12	1058.51	1107.91	1098.09	1041.41	950.29	827.64	
2.49	DISCHG	708.21	616.43	537.08	474.08	416.88	368.09	328.68	297.67	273.65	253.80	
3.32	DISCHG	237.10	222.85	209.71	197.17	184.95	173.15	162.51	154.26	147.82	143.51	
4.15	DISCHG	140.40	137.90	135.46	132.58	129.24	126.20	123.53	121.00	118.68	116.64	
4.98	DISCHG	114.98	113.57	112.01	109.90	106.85	102.68	97.55	91.99	86.40	81.03	
5.81	DISCHG	76.15	71.99	68.51	65.50	62.57	59.21	55.01	49.88	44.03	37.85	
6.64	DISCHG	31.83	26.19	21.18	16.94	13.52	10.84	8.70	6.98	5.59	4.47	
7.47	DISCHG	3.56	2.84	2.25	1.78	1.40	1.10	0.86	0.68	0.53	0.42	
8.30	DISCHG	0.32	0.24	0.18	0.13	0.09	0.06	0.03	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.37 WATERSHED INCHES; 1492.79 CFS-HRS; 123.36 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 32

OUTPUT HYDROGRAPH= 6

AREA= 0.78 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 0.80 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0889 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA =		
2.01		592.12				(RUNOFF)				0.78 SQ.MI.		
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT =	0.00 HOURS	TIME INCREMENT =	0.08 HOURS	DISCHG	ELEVATION	ELEVATION	DISCHG	DISCHG	DISCHG	DISCHG
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.66	37.98	108.45	
1.66	DISCHG	219.56	360.51	485.58	563.24	591.40	578.64	535.10	469.61	392.33	331.97	
2.49	DISCHG	282.83	244.81	211.11	182.95	159.68	140.86	126.20	115.86	108.50	102.56	
3.32	DISCHG	97.42	92.50	87.24	81.67	75.97	71.33	67.64	64.76	62.79	61.52	
4.15	DISCHG	61.10	60.87	60.33	59.41	58.23	56.95	55.69	54.55	53.59	52.91	
4.98	DISCHG	52.41	51.93	51.20	49.95	48.02	45.47	42.54	39.58	36.82	34.37	
5.81	DISCHG	32.37	30.86	29.67	28.58	27.30	25.56	23.16	20.18	17.01	13.90	
6.64	DISCHG	11.05	8.59	6.62	5.11	3.95	3.05	2.36	1.81	1.39	1.06	
7.47	DISCHG	0.81	0.61	0.47	0.36	0.27	0.20	0.15	0.11	0.08	0.05	
8.30	DISCHG	0.03	0.02	0.01	0.00							

RUNOFF VOLUME ABOVE BASEFLOW = 1.40 WATERSHED INCHES; 700.51 CFS-HRS; 57.89 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 33
 OUTPUT HYDROGRAPH= 6
 AREA= 1.49 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.15 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0852 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA =		
2.28		770.78				(RUNOFF)				1.49 SQ.MI.		
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT =	0.00 HOURS	TIME INCREMENT =	0.08 HOURS	DISCHG	ELEVATION	ELEVATION	DISCHG	DISCHG	DISCHG	DISCHG
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.88	23.55	67.26	
1.66	DISCHG	134.73	227.80	346.92	477.76	596.37	686.06	742.37	768.08	766.61	740.72	
2.49	DISCHG	699.58	642.03	572.41	505.36	419.81	402.73	362.67	329.24	299.99	274.77	
3.32	DISCHG	254.08	236.25	220.21	205.70	192.36	179.88	169.15	159.48	150.84	143.62	
4.15	DISCHG	137.64	132.59	128.43	124.99	121.81	118.74	115.93	113.27	110.62	108.06	
4.98	DISCHG	105.63	103.24	100.83	98.36	95.90	93.29	90.16	86.53	82.58	78.50	
5.81	DISCHG	74.47	70.63	67.07	63.74	60.55	57.42	54.20	50.64	46.57	42.15	
6.64	DISCHG	37.56	32.95	28.51	24.38	20.60	17.23	14.35	11.97	10.00	8.37	
7.47	DISCHG	7.01	5.86	4.89	4.08	3.40	2.83	2.35	1.95	1.62	1.34	
8.30	DISCHG	1.10	0.90	0.74	0.60	0.49	0.39	0.32	0.26	0.21	0.16	
9.13	DISCHG	0.13	0.10	0.07	0.05	0.03	0.02	0.01	0.00			

RUNOFF VOLUME ABOVE BASEFLOW = 1.30 WATERSHED INCHES; 1246.10 CFS-HRS; 102.98 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 34
 OUTPUT HYDROGRAPH= 6
 AREA= 6.31 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 2.50 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0833 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)			
3.26		1913.05				(RUNOFF)			

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 6.31 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	19.56	42.66
1.66	DISCHG	89.34	142.53	209.60	282.87	375.44	475.82	601.49	736.25	891.60	1053.12
2.49	DISCHG	1203.83	1352.40	1476.75	1593.70	1684.26	1765.20	1818.01	1861.34	1890.65	1912.11
3.32	DISCHG	1905.29	1888.21	1861.36	1829.25	1789.21	1744.52	1686.64	1622.59	1545.46	1463.15
4.15	DISCHG	1384.85	1312.05	1249.80	1191.75	1138.79	1088.19	1042.42	998.76	960.82	925.08
4.98	DISCHG	891.98	860.12	828.93	798.06	769.65	742.00	717.01	693.06	670.13	647.72
5.81	DISCHG	626.47	605.58	585.31	565.08	545.66	526.42	506.77	486.88	467.86	449.14
6.64	DISCHG	430.71	412.27	393.93	375.53	357.27	339.06	321.10	303.32	285.60	268.08
7.47	DISCHG	251.23	235.06	219.40	204.29	190.11	176.74	164.00	151.85	140.26	129.26
8.30	DISCHG	119.18	109.94	101.34	93.38	86.06	79.32	73.13	67.40	62.05	57.05
9.13	DISCHG	52.39	48.03	43.94	40.09	36.45	33.00	29.75	26.71	24.18	22.11
9.96	DISCHG	20.25	18.56	17.02	15.59	14.30	13.11	12.02	11.01	10.09	9.24
10.79	DISCHG	8.46	7.74	7.07	6.46	5.90	5.39	4.92	4.49	4.10	3.73
11.62	DISCHG	3.40	3.09	2.80	2.53	2.29	2.06	1.85	1.66	1.49	1.33
12.45	DISCHG	1.18	1.05	0.93	0.81	0.71	0.62	0.54	0.46	0.40	0.34
13.28	DISCHG	0.28	0.24	0.20	0.16	0.13	0.10	0.07	0.05	0.03	0.02
14.11	DISCHG	0.01	0.00								

RUNOFF VOLUME ABOVE BASEFLOW = 1.42 WATERSHED INCHES; 5799.95 CFS-HRS; 479.31 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 35
 OUTPUT HYDROGRAPH= 6
 AREA= 5.46 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.75 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0833 HOURS

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 5.46 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	33.76	94.04
1.66	DISCHG	180.85	292.01	434.47	608.51	817.57	1064.60	1308.12	1535.17	1725.69	1873.70
2.49	DISCHG	1984.72	2058.36	2100.50	2104.00	2074.87	2026.20	1960.70	1877.64	1774.94	1647.43
3.32	DISCHG	1520.49	1404.16	1308.04	1222.66	1144.13	1071.92	1010.12	953.86	901.06	850.06
4.15	DISCHG	803.41	761.62	724.88	691.66	661.15	632.54	605.95	582.17	560.07	538.88
4.98	DISCHG	520.51	503.98	488.65	474.23	460.43	447.01	433.82	420.26	406.39	392.17
5.81	DISCHG	377.53	363.20	349.13	334.98	320.70	306.60	292.80	279.02	264.96	250.49
6.64	DISCHG	235.48	220.04	204.41	188.78	173.37	158.23	143.43	129.17	116.17	104.28
7.47	DISCHG	93.22	82.99	73.62	65.18	57.73	51.22	45.52	40.47	35.98	32.00
8.30	DISCHG	28.45	25.28	22.44	19.89	17.63	15.64	13.88	12.31	10.91	9.66
9.13	DISCHG	8.55	7.56	6.67	5.88	5.18	4.56	4.01	3.52	3.09	2.70
9.96	DISCHG	2.36	2.05	1.77	1.53	1.31	1.12	0.95	0.80	0.68	0.57
10.79	DISCHG	0.48	0.40	0.33	0.27	0.21	0.16	0.12	0.08	0.05	0.03
11.62	DISCHG	0.01	0.00								

RUNOFF VOLUME ABOVE BASEFLOW = 1.36 WATERSHED INCHES; 4789.75 CFS-HRS; 395.82 ACRE-FEET; BASEFLOW = 0.00 CFS

RUNOFF VOLUME ABOVE BASEFLOW = 1.37 WATERSHED INCHES, 5296.97 CFS-HRS, 437.74 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 38
OUTPUT HYDROGRAPH= 6
AREA= 5.45 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.41 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0855 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA = 5.45 SQ.MI.		
2.47		2510.37				(RUNOFF)						
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.61	55.07	154.68	
1.66	DISCHG	305.18	505.64	765.70	1085.26	1438.48	1777.82	2063.18	2277.66	2418.04	2493.28	
2.49	DISCHG	2508.13	2459.56	2375.38	2258.38	2103.45	1917.68	1729.70	1567.80	1432.75	1314.43	
3.32	DISCHG	1212.92	1126.79	1048.94	976.45	910.58	851.96	798.82	750.15	706.66	668.30	
4.15	DISCHG	633.76	602.16	574.52	550.87	529.85	510.98	494.18	479.11	465.17	452.20	
4.98	DISCHG	440.17	429.03	418.51	407.80	397.16	386.69	375.48	363.16	349.74	335.38	
5.81	DISCHG	320.45	305.42	290.51	275.73	261.53	248.36	235.33	221.99	208.19	193.79	
6.64	DISCHG	178.81	163.47	148.05	132.86	118.15	104.18	91.19	79.26	68.45	58.89	
7.47	DISCHG	50.67	43.72	37.78	32.66	28.26	24.46	21.13	18.22	15.71	13.53	
8.30	DISCHG	11.64	10.00	8.59	7.36	6.31	5.40	4.63	3.96	3.37	2.86	
9.13	DISCHG	2.42	2.03	1.70	1.41	1.17	0.97	0.80	0.66	0.55	0.44	
9.96	DISCHG	0.35	0.27	0.20	0.14	0.09	0.06	0.03	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.35 WATERSHED INCHES, 4758.53 CFS-HRS, 393.24 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 39
OUTPUT HYDROGRAPH= 6
AREA= 3.96 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.41 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0855 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA = 3.96 SQ.MI.		
2.47		1867.83				(RUNOFF)						
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.28	41.44	115.97	
1.66	DISCHG	228.38	378.04	572.13	810.44	1073.54	1325.93	1537.86	1696.84	1800.55	1855.78	
2.49	DISCHG	1865.93	1829.03	1765.71	1677.99	1562.04	1423.26	1283.11	1162.53	1061.95	973.84	
3.32	DISCHG	898.29	834.19	776.23	722.27	673.29	629.70	590.21	554.05	521.75	493.27	
4.15	DISCHG	467.62	444.16	423.65	404.09	390.49	376.50	364.03	352.85	342.52	332.90	
4.98	DISCHG	323.99	315.74	307.95	300.02	292.16	284.43	276.16	267.07	257.17	246.59	
5.81	DISCHG	235.59	224.52	213.53	202.64	192.19	182.51	172.93	163.12	152.97	142.39	
6.64	DISCHG	131.38	120.11	108.78	97.62	86.81	76.55	67.00	58.24	50.29	43.27	
7.47	DISCHG	37.23	32.12	27.75	24.00	20.77	17.97	15.52	13.39	11.54	9.94	
8.30	DISCHG	8.55	7.35	6.31	5.41	4.63	3.97	3.40	2.91	2.48	2.10	
9.13	DISCHG	1.78	1.49	1.25	1.04	0.86	0.71	0.59	0.49	0.40	0.33	
9.96	DISCHG	0.26	0.20	0.15	0.11	0.07	0.04	0.02	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.38 WATERSHED INCHES, 3527.82 CFS-HRS, 291.54 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 40

OUTPUT HYDROGRAPH= 6
AREA= 1.49 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.25 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0833 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)		PEAK ELEVATION(FEET)								
2.34	719.85		(RUNOFF)								
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 1.49 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	17.03	54.91
1.66	DISCHG	107.98	180.95	279.09	397.69	509.44	599.84	664.08	700.34	719.39	710.47
2.49	DISCHG	687.85	653.98	605.11	512.04	482.53	434.57	392.48	355.93	325.79	299.91
3.32	DISCHG	276.22	255.76	238.55	222.77	208.45	195.12	183.29	172.43	163.11	154.69
4.15	DISCHG	147.33	141.23	136.11	131.47	127.56	123.91	120.62	117.48	114.44	111.77
4.98	DISCHG	109.35	107.05	104.72	102.24	99.61	96.71	93.33	89.47	85.64	81.76
5.81	DISCHG	77.87	74.07	70.49	67.07	63.74	60.48	57.20	53.79	50.06	45.96
6.64	DISCHG	41.66	37.29	32.95	28.75	24.85	21.28	18.05	15.23	12.87	10.91
7.47	DISCHG	9.26	7.87	6.68	5.66	4.79	4.05	3.42	2.89	2.44	2.06
8.30	DISCHG	1.73	1.45	1.22	1.02	0.85	0.70	0.58	0.48	0.39	0.32
9.13	DISCHG	0.26	0.21	0.17	0.14	0.11	0.08	0.06	0.04	0.03	0.01
9.96	DISCHG	0.01	0.00								

RUNOFF VOLUME ABOVE BASEFLOW = 1.30 WATERSHED INCHES, 1241.42 CFS-HRS, 102.59 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 41

OUTPUT HYDROGRAPH= 6
AREA= 1.58 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 1.09 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0807 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)		PEAK ELEVATION(FEET)								
2.23	949.62		(RUNOFF)								
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 1.58 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.18	31.86	91.66
1.66	DISCHG	184.26	313.27	475.54	643.98	785.64	883.25	936.12	949.25	925.73	878.38
2.49	DISCHG	808.35	718.67	629.13	554.20	491.02	438.18	393.96	354.67	321.56	295.32
3.32	DISCHG	273.11	253.66	236.41	220.58	205.94	193.10	181.45	170.84	161.68	154.18
4.15	DISCHG	148.03	143.10	139.19	135.77	132.68	129.73	126.66	123.51	120.38	117.38
4.98	DISCHG	114.51	111.96	109.88	107.81	105.38	102.35	98.57	94.19	89.51	84.77
5.81	DISCHG	80.13	75.86	71.98	68.43	65.09	61.80	58.24	54.10	49.38	44.28
6.64	DISCHG	39.00	33.77	28.83	24.27	20.17	16.65	13.73	11.35	9.40	7.80
7.47	DISCHG	6.45	5.33	4.40	3.63	2.99	2.46	2.02	1.65	1.35	1.10
8.30	DISCHG	0.89	0.72	0.58	0.46	0.37	0.30	0.24	0.18	0.14	0.11
9.13	DISCHG	0.08	0.05	0.03	0.02	0.01	0.00				

RUNOFF VOLUME ABOVE BASEFLOW = 1.41 WATERSHED INCHES, 1441.35 CFS-HRS, 119.11 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 42

OUTPUT HYDROGRAPH= 6
AREA= 0.91 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 0.93 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0886 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA = 0.91 SQ.MI.		
2.10		585.64				(RUNOFF)						
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	27.98	80.13
1.66	DISCHG	161.76	275.63	397.39	495.67	557.34	583.76	578.99	549.48	501.80	437.39	
2.49	DISCHG	374.53	326.20	284.36	251.14	220.96	195.20	174.39	158.03	145.36	134.89	
3.32	DISCHG	126.08	118.55	111.61	104.97	98.49	92.23	86.59	82.21	78.80	76.51	
4.15	DISCHG	74.87	73.55	72.26	70.74	68.97	67.35	65.93	64.58	63.35	62.26	
4.98	DISCHG	61.38	60.63	59.80	58.68	57.05	54.82	52.09	49.12	46.14	43.27	
5.81	DISCHG	40.67	38.44	36.59	34.98	33.42	31.63	29.38	26.64	23.51	20.21	
6.64	DISCHG	17.00	13.99	11.31	9.05	7.22	5.79	4.65	3.73	2.99	2.38	
7.47	DISCHG	1.90	1.51	1.20	0.95	0.75	0.59	0.46	0.36	0.28	0.22	
8.30	DISCHG	0.17	0.13	0.10	0.07	0.05	0.03	0.02	0.01	0.00		

RUNOFF VOLUME ABOVE BASEFLOW = 1.34 WATERSHED INCHES, 790.11 CFS-HRS, 65.29 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 43

OUTPUT HYDROGRAPH= 6
AREA= 1.24 SQ MI INPUT RUNOFF CURVE= 81. TIME OF CONCENTRATION= 0.68 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0907 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)				DRAINAGE AREA = 1.24 SQ.MI.		
1.91		1395.74				(RUNOFF)						
4.17		107.23				(RUNOFF)						
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS						
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.24	136.60	366.89	
1.66	DISCHG	709.64	1074.90	1320.62	1395.52	1335.83	1173.92	969.65	789.36	648.24	538.08	
2.49	DISCHG	449.09	377.26	320.27	273.98	237.19	209.84	191.82	181.20	173.14	166.47	
3.32	DISCHG	159.87	151.42	140.79	129.67	120.02	112.79	108.56	106.51	106.25	106.67	
4.15	DISCHG	107.22	106.97	105.58	103.35	100.76	98.15	95.84	94.13	92.93	92.08	
4.98	DISCHG	91.45	90.63	89.03	85.88	81.11	75.27	69.19	63.61	58.89	55.23	
5.81	DISCHG	52.67	50.81	49.28	47.69	45.21	41.13	35.65	29.44	23.23	17.59	
6.64	DISCHG	12.97	9.52	7.01	5.17	3.82	2.81	2.06	1.51	1.11	0.81	
7.47	DISCHG	0.59	0.42	0.30	0.21	0.14	0.09	0.05	0.02	0.01	0.00	

RUNOFF VOLUME ABOVE BASEFLOW = 1.71 WATERSHED INCHES, 1370.28 CFS-HRS, 113.24 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 44

OUTPUT HYDROGRAPH= 6
AREA= 1.94 SQ MI INPUT RUNOFF CURVE= 81. TIME OF CONCENTRATION= 1.22 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0813 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
2.31		1335.57				(RUNOFF)						
TIME(HRS)		FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 1.94 SQ.MI.		
0.83	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.14	38.43	109.66	
1.66	DISCHG	216.64	363.10	556.05	777.85	986.35	1150.74	1260.20	1320.22	1335.09	1307.41	
2.49	DISCHG	1251.26	1171.33	1063.04	940.59	830.82	740.55	643.32	597.90	543.17	494.98	
3.32	DISCHG	452.31	416.34	385.32	357.32	331.93	309.00	288.06	269.78	253.85	239.54	
4.15	DISCHG	227.48	217.67	208.98	201.55	195.08	189.27	183.82	178.53	173.87	169.63	
4.98	DISCHG	165.64	161.79	157.88	153.77	149.42	144.59	139.21	133.66	127.93	121.98	
5.81	DISCHG	116.00	110.21	104.74	99.54	94.53	89.61	84.65	79.43	73.68	67.39	
6.64	DISCHG	60.81	54.13	47.54	41.26	35.46	30.14	25.41	21.36	17.99	15.20	
7.47	DISCHG	12.85	10.87	9.18	7.74	6.52	5.48	4.61	3.88	3.26	2.73	
8.30	DISCHG	2.29	1.91	1.59	1.32	1.09	0.90	0.74	0.60	0.49	0.40	
9.13	DISCHG	0.32	0.26	0.21	0.16	0.12	0.09	0.06	0.04	0.02	0.01	
9.96	DISCHG	0.00										

RUNOFF VOLUME ABOVE BASEFLOW = 1.71 WATERSHED INCHES, 2139.65 CFS-HRS, 176.82 ACRE-FEET; BASEFLOW = 0.00 CFS

EXECUTIVE CONTROL OPERATION ENDCHP COMPUTATIONS COMPLETED FOR PASS 2 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			RUNOFF AMOUNT (IN)	PEAK DISCHARGE			
						BEGIN (HR)	AMOUNT (IN)	DURATION (HR)		ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
ALTERNATE 1 SIMONS 1													
STRUCTURE 1	RUNOFF	54.24	7	2	0.08	0.0	2.10	6.00	0.59	---	5.10	3944.04	72.7
STRUCTURE 2	RUNOFF	52.96	7	2	0.08	0.0	2.10	6.00	0.59	---	4.76	4133.08	78.0
STRUCTURE 3	RUNOFF	51.77	7	2	0.08	0.0	2.10	6.00	0.59	---	4.46	4290.65	82.9
STRUCTURE 4	RUNOFF	27.41	7	2	0.08	0.0	2.10	6.00	0.52	---	4.51	1983.25	72.4
STRUCTURE 5	RUNOFF	23.68	7	2	0.08	0.0	2.10	6.00	0.67	---	3.27	3281.25	138.6
STRUCTURE 6	RUNOFF	18.26	7	2	0.08	0.0	2.10	6.00	0.63	---	3.22	2435.88	133.4
STRUCTURE 7	RUNOFF	17.98	7	2	0.08	0.0	2.10	6.00	0.63	---	3.18	2439.28	135.6
STRUCTURE 8	RUNOFF	17.13	7	2	0.08	0.0	2.10	6.00	0.61	---	3.09	2345.79	136.9
STRUCTURE 9	RUNOFF	16.84	7	2	0.08	0.0	2.10	6.00	0.62	---	3.04	2375.01	141.0
STRUCTURE 10	RUNOFF	16.28	7	2	0.08	0.0	2.10	6.00	0.61	---	2.98	2334.66	143.4
STRUCTURE 11	RUNOFF	13.90	7	2	0.08	0.0	2.10	6.00	0.56	---	2.89	1922.54	138.3
STRUCTURE 12	RUNOFF	13.41	7	2	0.08	0.0	2.10	6.00	0.55	---	2.86	1842.92	137.4
STRUCTURE 13	RUNOFF	13.28	7	2	0.08	0.0	2.10	6.00	0.55	---	2.83	1856.16	139.8
STRUCTURE 14	RUNOFF	12.75	7	2	0.08	0.0	2.10	6.00	0.53	---	2.81	1740.24	136.5
STRUCTURE 15	RUNOFF	9.71	7	2	0.08	0.0	2.10	6.00	0.46	---	2.67	1186.56	122.2
STRUCTURE 16	RUNOFF	6.47	7	2	0.08	0.0	2.10	6.00	0.44	---	2.56	823.58	127.3
STRUCTURE 17	RUNOFF	4.98	7	2	0.08	0.0	2.10	6.00	0.43	---	2.42	687.43	138.1
STRUCTURE 18	RUNOFF	2.85	7	2	0.08	0.0	2.10	6.00	0.32	---	2.17	350.57	122.8
STRUCTURE 19	RUNOFF	5.37	7	2	0.08	0.0	2.10	6.00	0.80	---	2.72	1208.19	225.0
STRUCTURE 20	RUNOFF	2.15	7	2	0.08	0.0	2.10	6.00	0.72	---	1.95	899.77	418.1
STRUCTURE 21	RUNOFF	1.69	7	2	0.08	0.0	2.10	6.00	0.42	---	2.05	318.86	188.7
STRUCTURE 22	RUNOFF	0.50	7	2	0.08	0.0	2.10	6.00	0.38	---	1.71	160.92	323.8
STRUCTURE 23	RUNOFF	24.36	7	2	0.08	0.0	2.10	6.00	0.68	---	3.88	2738.74	112.4
STRUCTURE 24	RUNOFF	26.43	7	2	0.08	0.0	2.10	6.00	0.54	---	4.24	2113.87	80.0
STRUCTURE 25	RUNOFF	24.49	7	2	0.08	0.0	2.10	6.00	0.50	---	4.28	1788.76	73.0
STRUCTURE 26	RUNOFF	23.18	7	2	0.08	0.0	2.10	6.00	0.50	---	3.82	1906.50	82.2
STRUCTURE 27	RUNOFF	20.05	7	2	0.08	0.0	2.10	6.00	0.49	---	3.44	1832.44	91.4
STRUCTURE 28	RUNOFF	13.13	7	2	0.08	0.0	2.10	6.00	0.48	---	3.44	1189.41	90.6
STRUCTURE 29	RUNOFF	10.72	7	2	0.08	0.0	2.10	6.00	0.46	---	2.94	1145.36	106.9
STRUCTURE 30	RUNOFF	4.73	7	2	0.08	0.0	2.10	6.00	0.44	---	2.60	589.00	124.5
STRUCTURE 31	RUNOFF	1.69	7	2	0.08	0.0	2.10	6.00	0.47	---	2.14	330.71	195.8
STRUCTURE 32	RUNOFF	0.78	7	2	0.08	0.0	2.10	6.00	0.48	---	2.04	178.00	228.8

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 INCRM (HR)	PRECIPITATION			RUNOFF AMOUNT (IN)	PEAK DISCHARGE			
						BEGIN (HR)	AMOUNT (IN)	DURATION (HR)		ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
ALTERNATE-----1-----SIDEM-----1													
STRUCTURE 33	RUNOFF	1.49	7	2	0.08	0.0	2.10	6.00	0.43	---	2.33	222.26	149.1
STRUCTURE 34	RUNOFF	6.31	7	2	0.08	0.0	2.10	6.00	0.50	---	3.33	615.66	97.5
STRUCTURE 35	RUNOFF	5.46	7	2	0.08	0.0	2.10	6.00	0.46	---	2.76	642.72	117.6
STRUCTURE 36	RUNOFF	2.15	7	2	0.08	0.0	2.10	6.00	0.39	---	2.43	265.97	123.9
STRUCTURE 37	RUNOFF	5.99	7	2	0.08	0.0	2.10	6.00	0.47	---	2.94	657.66	109.9
STRUCTURE 38	RUNOFF	5.45	7	2	0.08	0.0	2.10	6.00	0.46	---	2.51	757.90	139.1
STRUCTURE 39	RUNOFF	3.96	7	2	0.08	0.0	2.10	6.00	0.47	---	2.51	572.58	144.4
STRUCTURE 40	RUNOFF	1.49	7	2	0.08	0.0	2.10	6.00	0.43	---	2.36	206.52	139.1
STRUCTURE 41	RUNOFF	1.58	7	2	0.08	0.0	2.10	6.00	0.49	---	2.27	293.03	185.1
STRUCTURE 42	RUNOFF	0.91	7	2	0.08	0.0	2.10	6.00	0.45	---	2.14	171.45	188.2
STRUCTURE 43	RUNOFF	1.24	7	2	0.08	0.0	2.10	6.00	0.67	---	1.93	492.60	396.9
STRUCTURE 44	RUNOFF	1.94	7	2	0.08	0.0	2.10	6.00	0.67	---	2.34	478.73	246.6
STRUCTURE 1	RUNOFF	54.24	7	2	0.08	0.0	3.50	6.00	1.59	---	4.94	10952.20	201.9
STRUCTURE 2	RUNOFF	52.96	7	2	0.08	0.0	3.50	6.00	1.59	---	4.64	11526.16	217.6
STRUCTURE 3	RUNOFF	51.77	7	2	0.08	0.0	3.50	6.00	1.58	---	4.36	12063.20	233.0
STRUCTURE 4	RUNOFF	27.41	7	2	0.08	0.0	3.50	6.00	1.44	---	4.37	5869.27	214.1
STRUCTURE 5	RUNOFF	23.68	7	2	0.08	0.0	3.50	6.00	1.71	---	3.23	8933.27	377.2
STRUCTURE 6	RUNOFF	18.24	7	2	0.08	0.0	3.50	6.00	1.65	---	3.17	6800.82	372.3
STRUCTURE 7	RUNOFF	17.98	7	2	0.08	0.0	3.50	6.00	1.64	---	3.13	6836.39	380.2
STRUCTURE 8	RUNOFF	17.13	7	2	0.08	0.0	3.50	6.00	1.61	---	3.04	6670.52	389.4
STRUCTURE 9	RUNOFF	16.84	7	2	0.08	0.0	3.50	6.00	1.62	---	2.99	6741.78	400.3
STRUCTURE 10	RUNOFF	16.28	7	2	0.08	0.0	3.50	6.00	1.61	---	2.94	6673.72	410.0
STRUCTURE 11	RUNOFF	13.90	7	2	0.08	0.0	3.50	6.00	1.53	---	2.83	5710.30	410.8
STRUCTURE 12	RUNOFF	13.41	7	2	0.08	0.0	3.50	6.00	1.52	---	2.81	5516.08	411.3
STRUCTURE 13	RUNOFF	13.28	7	2	0.08	0.0	3.50	6.00	1.52	---	2.78	5565.24	419.1
STRUCTURE 14	RUNOFF	12.75	7	2	0.08	0.0	3.50	6.00	1.48	---	2.75	5307.92	416.4
STRUCTURE 15	RUNOFF	9.71	7	2	0.08	0.0	3.50	6.00	1.35	---	2.62	3930.18	404.7
STRUCTURE 16	RUNOFF	6.47	7	2	0.08	0.0	3.50	6.00	1.31	---	2.51	2793.04	431.8
STRUCTURE 17	RUNOFF	4.98	7	2	0.08	0.0	3.50	6.00	1.30	---	2.37	2372.66	476.7
STRUCTURE 18	RUNOFF	2.85	7	2	0.08	0.0	3.50	6.00	1.09	---	2.11	1449.87	508.0
STRUCTURE 19	RUNOFF	5.37	7	2	0.08	0.0	3.50	6.00	1.91	---	2.69	3077.68	573.2
STRUCTURE 20	RUNOFF	2.15	7	2	0.08	0.0	3.50	6.00	1.79	---	1.93	2466.82	1146.3
STRUCTURE 21	RUNOFF	1.69	7	2	0.08	0.0	3.50	6.00	1.27	---	2.01	1150.30	680.6
STRUCTURE 22	RUNOFF	0.50	7	2	0.08	0.0	3.50	6.00	1.21	---	1.69	647.98	1303.8
STRUCTURE 23	RUNOFF	24.36	7	2	0.08	0.0	3.50	6.00	1.72	---	3.82	7332.64	301.0
STRUCTURE 24	RUNOFF	26.43	7	2	0.08	0.0	3.50	6.00	1.50	---	4.14	6190.37	234.2

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 HOIST COND	RAIN TIME INCREM (HR)	PRECIPITATION			RUNOFF AMOUNT (IN)	PEAK DISCHARGE			
						BEGIN (HR)	AMOUNT (IN)	DURATION (HR)		ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSH)
ALTERNATE-----1-----SIDEM-----1													
STRUCTURE 25	RUNOFF	24.49	7	2	0.08	0.0	3.50	6.00	1.42	---	4.15	5424.66	221.5
STRUCTURE 26	RUNOFF	23.18	7	2	0.08	0.0	3.50	6.00	1.42	---	3.72	5859.13	252.7
STRUCTURE 27	RUNOFF	20.05	7	2	0.08	0.0	3.50	6.00	1.40	---	3.36	5729.44	285.7
STRUCTURE 28	RUNOFF	13.13	7	2	0.08	0.0	3.50	6.00	1.40	---	3.36	3731.89	284.2
STRUCTURE 29	RUNOFF	10.72	7	2	0.08	0.0	3.50	6.00	1.35	---	2.88	3737.76	348.8
STRUCTURE 30	RUNOFF	4.73	7	2	0.08	0.0	3.50	6.00	1.32	---	2.55	1984.05	419.5
STRUCTURE 31	RUNOFF	1.69	7	2	0.08	0.0	3.50	6.00	1.37	---	2.10	1111.21	657.9
STRUCTURE 32	RUNOFF	0.78	7	2	0.08	0.0	3.50	6.00	1.40	---	2.01	592.12	761.1
STRUCTURE 33	RUNOFF	1.49	7	2	0.08	0.0	3.50	6.00	1.30	---	2.28	770.78	517.1
STRUCTURE 34	RUNOFF	6.31	7	2	0.08	0.0	3.50	6.00	1.42	---	3.26	1913.05	303.1
STRUCTURE 35	RUNOFF	5.46	7	2	0.08	0.0	3.50	6.00	1.36	---	2.71	2106.52	385.6
STRUCTURE 36	RUNOFF	2.15	7	2	0.08	0.0	3.50	6.00	1.23	---	2.38	956.50	415.5
STRUCTURE 37	RUNOFF	5.99	7	2	0.08	0.0	3.50	6.00	1.37	---	2.88	2122.60	354.7
STRUCTURE 38	RUNOFF	5.45	7	2	0.08	0.0	3.50	6.00	1.35	---	2.47	2510.37	460.6
STRUCTURE 39	RUNOFF	3.96	7	2	0.08	0.0	3.50	6.00	1.38	---	2.47	1867.83	471.1
STRUCTURE 40	RUNOFF	1.49	7	2	0.08	0.0	3.50	6.00	1.30	---	2.34	719.85	484.7
STRUCTURE 41	RUNOFF	1.58	7	2	0.08	0.0	3.50	6.00	1.41	---	2.23	949.62	599.9
STRUCTURE 42	RUNOFF	0.91	7	2	0.08	0.0	3.50	6.00	1.34	---	2.10	585.64	642.9
STRUCTURE 43	RUNOFF	1.24	7	2	0.08	0.0	3.50	6.00	1.71	---	1.91	1395.74	1124.6
STRUCTURE 44	RUNOFF	1.94	7	2	0.08	0.0	3.50	6.00	1.71	---	2.31	1335.57	688.1

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

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
-SIEUCIURE--44-----	1.24	
ALTERNATE 1		1335.57
-SIRUCIURE--43-----	1.24	
ALTERNATE 1		1395.74
-SIEUCIURE--42-----	0.91	
ALTERNATE 1		585.64
-SIRUCIURE--41-----	1.58	
ALTERNATE 1		949.62
-SIEUCIURE--40-----	1.42	
ALTERNATE 1		719.85
-SIRUCIURE--39-----	3.26	
ALTERNATE 1		1867.83
-SIRUCIURE--38-----	5.45	
ALTERNATE 1		2510.37
-SIEUCIURE--37-----	5.22	
ALTERNATE 1		2122.60
-SIRUCIURE--36-----	2.15	
ALTERNATE 1		956.50
-SIRUCIURE--35-----	5.44	
ALTERNATE 1		2106.52
-SIRUCIURE--34-----	6.31	
ALTERNATE 1		1913.05
-SIRUCIURE--33-----	1.42	
ALTERNATE 1		770.78
-SIEUCIURE--32-----	0.78	
ALTERNATE 1		592.12
-SIRUCIURE--31-----	1.62	
ALTERNATE 1		1111.21

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..30.....	4.23	
ALTERNATE 1		1984.05
..STRUCTURE..29.....	10.22	
ALTERNATE 1		3737.76
..STRUCTURE..28.....	13.13	
ALTERNATE 1		3731.89
..STRUCTURE..27.....	20.05	
ALTERNATE 1		5729.44
..STRUCTURE..26.....	23.18	
ALTERNATE 1		5859.13
..STRUCTURE..25.....	24.42	
ALTERNATE 1		5424.66
..STRUCTURE..24.....	26.43	
ALTERNATE 1		6190.37
..STRUCTURE..23.....	24.36	
ALTERNATE 1		7332.64
..STRUCTURE..22.....	0.50	
ALTERNATE 1		647.98
..STRUCTURE..21.....	1.62	
ALTERNATE 1		1150.30
..STRUCTURE..20.....	2.15	
ALTERNATE 1		2466.82
..STRUCTURE..19.....	5.32	
ALTERNATE 1		3077.68
..STRUCTURE..18.....	2.85	
ALTERNATE 1		1449.87
..STRUCTURE..17.....	4.28	
ALTERNATE 1		2372.66

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 16	6.47	
ALTERNATE 1		2793.04
STRUCTURE 15	2.71	
ALTERNATE 1		3930.18
STRUCTURE 14	12.75	
ALTERNATE 1		5307.92
STRUCTURE 13	13.28	
ALTERNATE 1		5565.24
STRUCTURE 12	13.41	
ALTERNATE 1		5516.08
STRUCTURE 11	13.90	
ALTERNATE 1		5710.30
STRUCTURE 10	14.28	
ALTERNATE 1		6673.72
STRUCTURE 9	16.84	
ALTERNATE 1		6741.78
STRUCTURE 8	17.13	
ALTERNATE 1		6670.52
STRUCTURE 7	17.98	
ALTERNATE 1		6836.39
STRUCTURE 6	18.26	
ALTERNATE 1		6800.82
STRUCTURE 5	23.68	
ALTERNATE 1		8933.27
STRUCTURE 4	27.41	
ALTERNATE 1		5869.27
STRUCTURE 3	51.77	
ALTERNATE 1		12063.20

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

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS..... 1
_STRUCTURE_2	52.24	
ALTERNATE 1		11526.16
_STRUCTURE_1	54.24	
ALTERNATE 1		10952.20

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

JOB TR-20		FULLPRINT			SUMMARY			
TITLE 001 SAND CREEK-SIMONS, LI & ASSOC.-24 HR.-5 & 100 YR								
5	RAINFL	7		0.5				
8				0.0	.0025	.005	.0075	.01
8				.015	.020	.025	.030	.050
8				.06	.10	.70	.75	.78
8				.798	.820	.83	.84	.85
8				.86	.865	.87	.885	.89
8				.90	.905	.91	.915	.921
8				.927	.933	.94	.945	.95
8				.955	.96	.965	.970	.975
8				.980	.983	.985	.988	.99
8				.993	.995	.998	1.0	1.00
9	ENDTBL							
6	RUNOFF	1	01	6 54.2450	79.3	4.75	1 1	1 1
6	RUNOFF	1	02	6 52.9580	79.3	4.33	1 1	1 1
6	RUNOFF	1	03	6 51.7730	79.2	3.96	1 1	1 1
6	RUNOFF	1	04	6 27.4110	77.5	3.96	1 1	1 1
6	RUNOFF	1	05	6 23.6800	81.0	2.47	1 1	1 1
6	RUNOFF	1	06	6 18.2650	80.2	2.39	1 1	1 1
6	RUNOFF	1	07	6 17.9830	80.1	2.32	1 1	1 1
6	RUNOFF	1	08	6 17.1290	79.7	2.20	1 1	1 1
6	RUNOFF	1	09	6 16.8430	79.8	2.14	1 1	1 1
6	RUNOFF	1	10	6 16.2790	79.6	2.06	1 1	1 1
6	RUNOFF	1	11	6 13.9000	78.5	1.92	1 1	1 1
6	RUNOFF	1	12	6 13.4110	78.3	1.89	1 1	1 1
6	RUNOFF	1	13	6 13.2790	78.3	1.85	1 1	1 1
6	RUNOFF	1	14	6 12.7470	77.8	1.81	1 1	1 1
6	RUNOFF	1	15	6 9.7120	75.7	1.63	1 1	1 1
6	RUNOFF	1	16	6 6.4690	75.2	1.46	1 1	1 1
6	RUNOFF	1	17	6 4.9770	74.9	1.27	1 1	1 1
6	RUNOFF	1	18	6 2.8540	71.5	0.91	1 1	1 1
6	RUNOFF	1	19	6 5.3690	83.7	1.76	1 1	1 1
6	RUNOFF	1	20	6 2.1520	82.1	0.71	1 1	1 1
6	RUNOFF	1	21	6 1.6900	74.6	0.80	1 1	1 1
6	RUNOFF	1	22	6 0.4970	73.6	0.34	1 1	1 1
6	RUNOFF	1	23	6 24.3620	81.2	3.26	1 1	1 1
6	RUNOFF	1	24	6 26.4340	78.0	3.66	1 1	1 1
6	RUNOFF	1	25	6 24.4930	76.9	3.66	1 1	1 1
6	RUNOFF	1	26	6 23.1820	76.8	3.09	1 1	1 1
6	RUNOFF	1	27	6 20.0540	76.6	2.63	1 1	1 1
6	RUNOFF	1	28	6 13.1320	76.5	2.63	1 1	1 1
6	RUNOFF	1	29	6 10.7150	75.8	1.96	1 1	1 1
6	RUNOFF	1	30	6 4.7300	75.3	1.52	1 1	1 1
6	RUNOFF	1	31	6 1.6890	76.1	0.93	1 1	1 1
6	RUNOFF	1	32	6 0.7780	76.5	0.80	1 1	1 1

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

6	RUNOFF	1	33	6	1.4905	74.9	1.15	1	1	1	1
6	RUNOFF	1	34	6	6.3120	76.9	2.50	1	1	1	1
6	RUNOFF	1	35	6	5.4630	75.9	1.75	1	1	1	1
6	RUNOFF	1	36	6	2.1472	73.9	1.29	1	1	1	1
6	RUNOFF	1	37	6	5.9850	76.1	1.96	1	1	1	1
6	RUNOFF	1	38	6	5.4500	75.8	1.41	1	1	1	1
6	RUNOFF	1	39	6	3.9650	76.2	1.41	1	1	1	1
6	RUNOFF	1	40	6	1.4850	74.9	1.25	1	1	1	1
6	RUNOFF	1	41	6	1.5830	76.7	1.09	1	1	1	1
6	RUNOFF	1	42	6	0.9110	75.7	0.93	1	1	1	1
6	RUNOFF	1	43	6	1.2411	81.0	0.68	1	1	1	1
6	RUNOFF	1	44	6	1.9410	81.0	1.22	1	1	1	1
	ENDATA										
7	INCREM	6			.083						
7	COMPUT	7	01	44	0.0	2.7	1.0	7	2	1	1
	ENDCMP	1									
7	COMPUT	7	01	44	0.0	4.5	1.0	7	2	1	1
	ENDCMP	1									
	ENDJOB	2									

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

FILE NO. 1

COMPUTER PROGRAM FOR PROJECT FORMULATION - HYDROLOGY USER NOTES

THE USERS MANUAL FOR THIS PROGRAM IS THE MAY 1982 DRAFT OF TR-20. CHANGES FROM THE 2/14/74 VERSION INCLUDE:

REACH ROUTING - THE MODIFIED ATT-KIN ROUTING PROCEDURE REPLACES THE CONVEX METHOD. INPUT DATA PREPARED FOR PREVIOUS PROGRAM VERSIONS USING CONVEX ROUTING COEFFICIENTS WILL NOT RUN ON THIS VERSION.

THE PREFERRED TYPE OF DATA ENTRY IS CROSS SECTION DATA REPRESENTATIVE OF A REACH. IT IS RECOMMENDED THAT THE OPTIONAL CROSS SECTION DISCHARGE-AREA PLOTS BE OBTAINED WHENEVER NEW CROSS SECTION DATA IS ENTERED. THE PLOTS SHOULD BE CHECKED FOR REASONABLENESS AND ADEQUACY OF INPUT DATA FOR THE COMPUTATION OF "M" VALUES USED IN THE ROUTING PROCEDURE.

GUIDELINES FOR DETERMINING OR ANALYZING REACH LENGTHS AND COEFFICIENTS (X,M) ARE AVAILABLE IN THE USERS MANUAL. SUMMARY TABLE 2 DISPLAYS REACH ROUTING RESULTS AND ROUTING PARAMETERS FOR COMPARISON AND CHECKING.

HYDROGRAPH GENERATION - THE PROCEDURE TO CALCULATE THE INTERNAL TIME INCREMENT AND PEAK TIME OF THE UNIT HYDROGRAPH HAVE BEEN IMPROVED. PEAK DISCHARGES AND TIMES MAY DIFFER FROM THE PREVIOUS VERSION. OUTPUT HYDROGRAPHS ARE STILL INTERPOLATED, PRINTED, AND ROUTED AT THE USER SELECTED MAIN TIME INCREMENT.

INTERMEDIATE PEAKS - METHOD ADDED TO PROVIDE DISCHARGES AT INTERMEDIATE POINTS WITHIN REACHES WITHOUT ROUTING.

OTHER - THIS VERSION CONTAINS SOME ADDITIONS TO THE INPUT AND NUMEROUS MODIFICATIONS TO THE OUTPUT. USER OPTIONS HAVE BEEN MODIFIED AND AUGMENTED ON THE JOB RECORD, RAINTABLES ADDED, ERROR AND WARNING MESSAGES EXPANDED, AND THE SUMMARY TABLES COMPLETELY REVISED. THE HOLDOUT OPTION IS NOT OPERATIONAL AT THIS TIME.

PROGRAM QUESTIONS OR PROBLEMS SHOULD BE DIRECTED TO HYDRAULIC ENGINEERS AT THE SCS NATIONAL TECHNICAL CENTERS:

BROOMALL, PA (NORTHEAST) -- 489-3229 (FTS), FORT WORTH, TX (SOUTH) -- 334-5242 (FTS)
LINCOLN, NB (MIDWEST) -- 541-5318 (FTS), PORTLAND, OR (WEST) -- 423-4099 (FTS)
OR HYDROLOGY UNIT, ENGINEERING DIVISION, LANHAM, MD -- 436-7383 (FTS).

PROGRAM CHANGES SINCE MAY 1982:

12/17/82 - CORRECT PEAK RATE FACTOR FOR USER ENTERED DIMHYD
CORRECT REACH ROUTING PEAK TRAVEL TIME PRINTED WITH FULLPRINT OPTION

5/02/83 - CORRECT COMPUTATIONS FOR ---

1. DIVISION OF BASEFLOW IN DIVERT OPERATION
2. HYDROGRAPH VOLUME SPLIT BETWEEN BASEFLOW AND ABOVE BASEFLOW
3. CROSS SECTION DATA PLOTTING POSITION
4. INTERMEDIATE PEAK WHEN "FROM" AREA IS LARGER THAN "THRU" AREA
5. STORAGE ROUTED REACH TRAVEL TIME FOR MULTYPEAK HYDROGRAPH
6. ORDERING "FLOW-FREQ" FILE FROM SUMMARY TABLE #3 DATA
7. BASEFLOW ENTERED WITH READHYD
8. LOW FLOW SPLIT DURING DIVERT PROCEDURE #2 WHEN SECTION RATINGS START AT DIFFERENT ELEVATIONS

ENHANCEMENTS ---

1. REPLACE USER MANUAL ERROR CODES (PAGE 4-9 TO 4-11) WITH MESSAGES
2. LABEL OUTPUT HYDROGRAPH FILES WITH CROSS SECTION/STRUCTURE, ALTERNATE AND STORM NO'S

100 YEAR 6 HOUR STORM

EXECUTIVE CONTROL OPERATION INCREM MAIN TIME INCREMENT = 0.08 HOURS RECORD ID

EXECUTIVE CONTROL OPERATION COMPUT FROM STRUCTURE 1 TO STRUCTURE 44 RECORD ID
STARTING TIME = 0.00 RAIN DEPTH = 2.70 RAIN DURATION = 1.00 RAIN TABLE NO. = 7 ANT. MOIST. COND = 2
ALTERNATE NO. = 1 STORM NO. = 1 MAIN TIME INCREMENT = 0.08 HOURS

OPERATION RUNOFF STRUCTURE 1
OUTPUT HYDROGRAPH = 6
AREA = 54.24 SQ MI INPUT RUNOFF CURVE = 79. TIME OF CONCENTRATION = 4.75 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT = 0.0833 HOURS

PEAK TIME(HRS) 9.33 PEAK DISCHARGE(CFS) 5236.11 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 54.24 SQ.MI.								
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00	0.01	1.37	6.53						
5.81	DISCHG 17.69 36.92 67.63 107.23	156.09 216.74	290.34	371.74	459.54	555.35					
6.64	DISCHG 660.08 773.16 895.37 1029.29	1175.02 1331.65	1500.37	1684.20	1880.28	2086.18					
7.47	DISCHG 2302.40 2528.79 2757.95 2984.54	3205.89 3419.00	3624.50	3821.28	4005.22	4174.91					
8.30	DISCHG 4333.28 4480.17 4611.62 4727.98	4831.77 4922.17	4996.29	5058.25	5112.83	5159.84					
9.13	DISCHG 5196.47 5221.93 5235.08 5233.12	5215.26 5187.62	5154.74	5115.92	5070.84	5020.19					
9.96	DISCHG 4964.44 4902.84 4834.77 4760.11	4678.40 4588.06	4489.32	4383.64	4270.85	4150.84					
10.79	DISCHG 4027.47 3905.33 3786.19 3671.90	3562.42 3457.57	3359.36	3268.07	3180.86	3095.75					
11.62	DISCHG 3013.43 2934.02 2857.03 2782.42	2710.81 2642.34	2576.42	2513.34	2453.86	2397.50					
12.45	DISCHG 2342.79 2289.90 2239.03 2189.91	2141.88 2094.96	2049.35	2005.37	1963.16	1922.89					
13.28	DISCHG 1884.66 1848.00 1812.83 1779.45	1747.64 1716.59	1686.27	1656.79	1628.00	1599.70					
14.11	DISCHG 1572.20 1545.57 1519.56 1493.81	1468.64 1444.20	1420.22	1396.66	1373.81	1351.69					
14.94	DISCHG 1329.75 1307.87 1286.34 1265.31	1244.97 1225.55	1207.25	1189.85	1172.70	1155.90					
15.77	DISCHG 1139.52 1123.45 1107.62 1092.18	1077.28 1062.95	1049.13	1035.97	1023.54	1011.84					
16.60	DISCHG 1000.76 990.26 980.33 970.76	961.38 952.14	943.18	934.63	926.50	918.84					
17.43	DISCHG 911.65 904.76 898.07 891.51	885.20 879.18	873.39	867.83	862.36	856.86					
18.26	DISCHG 851.30 845.74 840.18 834.60	829.02 823.55	818.28	813.23	808.45	803.90					
19.09	DISCHG 799.35 794.78 790.19 785.63	781.08 776.56	772.11	767.74	763.46	759.24					
19.92	DISCHG 755.10 751.04 747.00 742.97	738.95 734.92	730.83	726.69	722.52	718.30					
20.75	DISCHG 714.04 709.74 705.40 701.00	696.53 691.94	687.25	682.42	677.43	672.30					
21.58	DISCHG 667.11 661.90 656.72 651.58	646.20 640.60	634.81	628.78	622.54	616.16					
22.41	DISCHG 609.63 602.96 596.18 589.33	582.43 575.48	568.49	561.46	554.45	547.44					
23.24	DISCHG 540.45 533.47 526.56 519.75	513.03 506.43	499.96	493.64	487.40	481.25					
24.07	DISCHG 475.19 469.23 463.33 457.50	451.72 446.02	440.35	434.71	429.09	423.52					

RUNOFF VOLUME ABOVE BASEFLOW = 0.96 WATERSHED INCHES, 33440.41 CFS-HRS, 2763.52 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 2
OUTPUT HYDROGRAPH = 6
AREA = 52.96 SQ MI INPUT RUNOFF CURVE = 79. TIME OF CONCENTRATION = 4.33 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT = 0.0825 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
9.02		5520.31				(RUNOFF)						
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 52.96 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.76	7.82	
5.81	DISCHG	21.00	44.35	81.16	130.82	192.32	268.23	357.75	457.06	565.66	685.78	
6.64	DISCHG	816.95	959.08	1115.27	1286.92	1473.17	1675.62	1896.47	2131.91	2379.27	2637.53	
7.47	DISCHG	2901.11	3163.18	3418.41	3662.58	3896.15	4118.24	4323.99	4512.63	4686.61	4843.29	
8.30	DISCHG	4978.94	5098.02	5201.33	5286.29	5355.88	5415.26	5463.75	5497.80	5516.82	5518.95	
9.13	DISCHG	5502.66	5472.22	5433.53	5387.71	5334.23	5274.06	5207.15	5132.21	5048.92	4957.01	
9.96	DISCHG	4854.80	4741.18	4618.69	4487.39	4348.60	4206.95	4066.83	3931.36	3803.03	3680.29	
10.79	DISCHG	3564.37	3456.72	3354.80	3255.57	3159.67	3067.63	2978.29	2892.25	2810.54	2732.67	
11.62	DISCHG	2658.07	2587.39	2520.65	2455.64	2392.31	2330.82	2270.73	2211.69	2154.07	2098.53	
12.45	DISCHG	2045.50	1995.43	1948.97	1905.61	1864.76	1826.63	1791.04	1756.33	1722.37	1689.43	
13.28	DISCHG	1657.68	1626.99	1597.45	1569.14	1541.56	1514.68	1488.58	1463.31	1438.86	1415.22	
14.11	DISCHG	1392.19	1369.09	1345.92	1322.90	1300.34	1278.55	1257.72	1237.69	1217.97	1198.74	
14.94	DISCHG	1180.10	1161.89	1144.09	1126.73	1109.79	1093.06	1076.60	1060.49	1044.76	1029.55	
15.77	DISCHG	1015.00	1001.07	987.69	975.01	963.03	951.73	941.17	931.32	921.95	912.80	
16.60	DISCHG	903.92	895.43	887.42	879.98	873.21	866.98	861.12	855.56	850.23	845.04	
17.43	DISCHG	839.95	834.95	830.07	825.35	820.86	816.58	812.33	808.06	803.79	799.49	
18.26	DISCHG	795.13	790.72	786.26	781.70	777.08	772.41	767.72	762.98	758.23	753.48	
19.09	DISCHG	748.73	744.00	739.32	734.70	730.14	725.64	721.18	716.76	712.39	708.08	
19.92	DISCHG	703.82	699.61	695.48	691.56	687.91	684.58	681.57	678.71	675.88	673.03	
20.75	DISCHG	670.16	667.23	664.22	661.09	657.81	654.38	650.73	646.87	642.79	638.46	
21.58	DISCHG	633.84	628.91	623.69	618.16	612.32	606.18	599.78	593.15	586.32	579.34	
22.41	DISCHG	572.26	565.11	557.89	550.65	543.40	536.12	528.84	521.57	514.31	507.07	
23.24	DISCHG	499.93	492.94	486.08	479.38	472.83	466.45	460.22	454.14	448.22	442.47	
24.07	DISCHG	436.82	431.28	425.87	420.57	415.34	410.17	405.11	400.12	395.14	390.18	

RUNOFF VOLUME ABOVE BASEFLOW = 0.96 WATERSHED INCHES, 32816.14 CFS-HRS, 2711.93 ACRE-Feet; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 3
 OUTPUT HYDROGRAPH= 6
 AREA= 51.77 SQ MI INPUT RUNOFF CURVE= 79. TIME OF CONCENTRATION= 3.96 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0825 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)						
8.74		5772.64				(RUNOFF)						
TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 51.77 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	1.99	8.97	
5.81	DISCHG	24.24	51.96	96.56	157.38	233.56	327.87	437.27	557.91	691.65	839.57	
6.64	DISCHG	1001.68	1181.04	1379.81	1596.78	1833.63	2092.16	2368.08	2657.54	2957.17	3257.90	
7.47	DISCHG	3550.99	3831.20	4097.42	4347.90	4577.64	4786.77	4977.29	5145.36	5289.58	5413.57	
8.30	DISCHG	5516.34	5598.04	5665.86	5719.84	5755.30	5771.81	5767.19	5740.54	5699.93	5650.54	
9.13	DISCHG	5592.12	5525.19	5450.04	5364.83	5268.86	5162.18	5042.76	4909.81	4765.58	4611.58	
9.96	DISCHG	4450.86	4290.24	4134.63	3987.27	3847.59	3716.34	3594.85	3479.82	3368.30	3260.86	
10.79	DISCHG	3157.39	3057.03	2961.18	2870.51	2783.83	2701.85	2624.66	2549.94	2477.56	2407.28	

11.62	DISCHG	2338.01	2269.73	2203.07	2138.43	2076.43	2018.11	1963.49	1912.26	1864.70	1820.52
12.45	DISCHG	1778.75	1739.47	1702.42	1667.14	1633.84	1602.26	1571.70	1542.21	1514.09	1487.15
13.28	DISCHG	1461.32	1436.62	1412.53	1388.51	1364.82	1341.74	1319.64	1298.72	1278.71	1258.83
14.11	DISCHG	1239.21	1219.90	1200.70	1181.69	1163.10	1144.83	1126.89	1109.45	1092.41	1075.66
14.94	DISCHG	1059.24	1042.90	1026.40	1009.88	993.65	977.87	962.71	948.38	934.85	922.13
15.77	DISCHG	910.24	899.26	889.21	879.94	871.12	862.59	854.38	846.54	839.08	832.14
16.60	DISCHG	825.89	820.39	815.65	811.49	807.64	804.00	800.46	796.98	793.53	790.09
17.43	DISCHG	786.62	783.10	779.48	775.78	771.95	767.97	763.83	759.51	755.01	750.35
18.26	DISCHG	745.58	740.71	735.78	730.83	725.84	720.82	715.79	710.79	705.94	701.39
19.09	DISCHG	697.22	693.47	689.99	686.61	683.32	680.12	677.00	673.97	671.04	668.22
19.92	DISCHG	665.52	662.94	660.49	658.18	655.95	653.76	651.59	649.40	647.13	644.74
20.75	DISCHG	642.28	639.64	636.81	633.78	630.52	626.99	623.17	619.06	614.59	609.77
21.58	DISCHG	604.57	599.01	593.08	586.80	580.19	573.29	566.15	558.82	551.36	543.80
22.41	DISCHG	536.20	528.61	521.02	513.44	505.88	498.34	490.81	483.36	476.02	468.82
23.24	DISCHG	461.77	454.90	448.23	441.78	435.56	429.54	423.75	418.18	412.81	407.62
24.07	DISCHG	402.60	397.74	393.04	388.44	383.95	379.55	375.20	370.87	366.52	362.10

RUNOFF VOLUME ABOVE BASEFLOW = 0.96 WATERSHED INCHES; 32037.00 CFS-HRS; 2647.54 ACRE-FeET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 4

OUTPUT HYDROGRAPH= 6

AREA= 27.41 SQ MI INPUT RUNOFF CURVE= 7B. TIME OF CONCENTRATION= 3.96 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0825 HOURS

PEAK TIME(HRS) 8.76
PEAK DISCHARGE(CFS) 2714.18
PEAK ELEVATION(FeET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 27.41 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.01 0.62 3.37
5.81	DISCHG 9.86 22.00 41.88 69.29	103.87 147.00 197.28	252.79 314.35 382.50
6.64	DISCHG 457.25 539.96 631.69 731.95	841.51 961.28 1089.36	1224.17 1364.27 1505.25
7.47	DISCHG 1643.01 1775.10 1900.91 2019.61	2128.85 2228.59 2319.79	2400.70 2470.54 2530.92
8.30	DISCHG 2581.33 2621.71 2655.59 2683.21	2702.36 2712.64 2713.01	2702.76 2685.79 2664.64
9.13	DISCHG 2639.20 2609.71 2576.32 2538.25	2495.12 2446.94 2392.81	2332.27 2266.32 2195.46
9.96	DISCHG 2121.10 2046.55 1974.10 1905.30	1839.95 1778.49 1721.60	1667.75 1615.48 1565.07
10.79	DISCHG 1516.47 1469.28 1424.13 1381.38	1340.49 1301.79 1265.36	1230.11 1195.96 1162.82
11.62	DISCHG 1130.15 1097.92 1066.41 1035.82	1006.46 978.80 952.91	928.64 906.13 885.24
12.45	DISCHG 865.53 847.01 829.55 812.93	797.25 782.39 768.00	754.10 740.83 728.11
13.28	DISCHG 715.91 704.26 692.91 681.57	670.35 659.39 648.89	638.94 629.42 619.95
14.11	DISCHG 610.59 601.36 592.17 583.06	574.13 565.35 556.72	548.31 540.09 532.00
14.94	DISCHG 524.07 516.18 508.19 500.19	492.31 484.65 477.30	470.35 463.79 457.63
15.77	DISCHG 451.87 446.55 441.69 437.20	432.95 428.83 424.88	421.11 417.52 414.18
16.60	DISCHG 411.17 408.52 406.25 404.26	402.43 400.69 399.02	397.36 395.73 394.09
17.43	DISCHG 392.45 390.77 389.05 387.28	385.44 383.54 381.55	379.47 377.30 375.05
18.26	DISCHG 372.75 370.39 368.01 365.61	363.19 360.76 358.32	355.89 353.51 351.28
19.09	DISCHG 349.23 347.38 345.66 343.99	342.36 340.78 339.25	337.75 336.30 334.91
19.92	DISCHG 333.58 332.31 331.11 329.97	328.87 327.79 326.73	325.65 324.53 323.36
20.75	DISCHG 322.14 320.83 319.43 317.92	316.30 314.55 312.65	310.60 308.38 305.97
21.58	DISCHG 303.38 300.60 297.64 294.50	291.20 287.75 284.17	280.51 276.77 272.98

22.41	DISCHG	269.18	265.38	261.58	257.79	254.00	250.22	246.45	242.72	239.04	235.44
23.24	DISCHG	231.91	228.46	225.12	221.89	218.77	215.76	212.86	210.07	207.38	204.78
24.07	DISCHG	202.26	199.83	197.47	195.17	192.92	190.71	188.54	186.37	184.19	181.97

RUNOFF VOLUME ABOVE BASEFLOW = 0.87 WATERSHED INCHES, 15378.86 CFS-HRS, 1270.91 ACRE-FeET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 5
 OUTPUT HYDROGRAPH= 6
 AREA= 23.68 SQ MI INPUT RUNOFF CURVE= 81. TIME OF CONCENTRATION= 2.47 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0823 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FeET)
7.60	4424.28	(RUNOFF)
16.85	356.56	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 23.68 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.33 3.76 15.10		
5.81	DISCHG 41.69 92.29 174.57 287.61 432.50 605.23 806.90 1040.91 1312.50 1620.42		
6.64	DISCHG 1961.04 2320.10 2683.07 3030.41 3345.57 3624.71 3859.28 4052.02 4200.15 4310.86		
7.47	DISCHG 4381.19 4418.46 4421.54 4391.56 4327.69 4244.63 4144.13 4026.45 3887.90 3728.29		
8.30	DISCHG 3548.67 3358.94 3166.85 2986.05 2822.94 2674.01 2540.47 2413.78 2294.70 2182.40		
9.13	DISCHG 2078.35 1980.46 1889.05 1800.43 1715.18 1632.81 1554.79 1481.84 1414.89 1352.14		
9.96	DISCHG 1294.19 1238.85 1186.57 1137.01 1090.74 1047.03 1006.16 967.58 931.64 897.17		
10.79	DISCHG 864.49 833.51 804.27 775.81 748.59 722.62 698.43 675.97 655.49 636.79		
11.62	DISCHG 620.03 605.00 591.84 580.79 572.04 565.06 559.66 555.59 552.33 549.27		
12.45	DISCHG 546.21 543.21 540.29 537.57 535.04 532.27 529.25 526.00 522.49 518.53		
13.28	DISCHG 513.88 508.42 502.03 494.59 486.04 476.58 466.51 456.11 445.80 435.94		
14.11	DISCHG 426.87 418.64 411.06 403.81 396.91 390.29 383.95 377.90 372.22 367.02		
14.94	DISCHG 362.41 358.46 355.22 352.65 350.66 349.17 348.06 347.29 346.81 346.62		
15.77	DISCHG 346.69 346.99 347.48 348.15 348.98 349.93 350.97 352.06 353.17 354.23		
16.60	DISCHG 355.15 355.90 356.39 356.56 356.36 355.79 354.84 353.60 352.06 350.28		
17.43	DISCHG 348.30 346.16 343.90 341.55 339.12 336.66 334.21 331.78 329.38 327.02		
18.26	DISCHG 324.72 322.52 320.45 318.55 316.84 315.31 313.93 312.69 311.56 310.53		
19.09	DISCHG 309.59 308.73 307.95 307.23 306.58 305.99 305.45 304.98 304.56 304.18		
19.92	DISCHG 303.84 303.53 303.18 302.78 302.25 301.58 300.74 299.71 298.39 296.77		
20.75	DISCHG 294.72 292.23 289.22 285.68 281.68 277.24 272.44 267.31 261.93 256.33		
21.58	DISCHG 250.63 244.85 239.07 233.32 227.77 222.40 217.27 212.36 207.68 203.23		
22.41	DISCHG 199.03 195.10 191.45 188.09 185.02 182.22 179.66 177.36 175.33 173.53		
23.24	DISCHG 171.91 170.43 169.04 167.71 166.41 165.14 163.94 162.82 161.82 160.92		
24.07	DISCHG 160.09 159.27 158.34 157.21 155.82 154.09 151.96 149.41 146.40 142.92		

RUNOFF VOLUME ABOVE BASEFLOW = 1.07 WATERSHED INCHES, 16426.23 CFS-HRS, 1357.46 ACRE-FeET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 6
 OUTPUT HYDROGRAPH= 6
 AREA= 18.26 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.39 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0839 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)								
7.55		3321.49				(RUNOFF)								
16.83		268.56				(RUNOFF)								
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS								TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 18.26 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	2.60	11.13			
5.81	DISCHG	31.34	70.58	134.32	223.39	336.75	473.63	633.52	820.30	1038.20	1280.71			
6.64	DISCHG	1547.58	1826.46	2102.99	2363.26	2596.83	2799.05	2966.60	3099.75	3199.75	3269.15			
7.47	DISCHG	3308.52	3321.48	3307.07	3266.53	3205.53	3131.52	3043.15	2939.12	2817.91	2681.53			
8.30	DISCHG	2535.59	2388.78	2249.91	2123.87	2010.35	1907.18	1810.66	1719.96	1635.11	1556.10			
9.13	DISCHG	1482.21	1412.30	1344.73	1279.48	1216.87	1157.91	1103.20	1052.47	1005.19	960.85			
9.96	DISCHG	918.97	879.49	842.46	807.76	775.20	744.66	716.08	689.18	663.91	640.30			
10.79	DISCHG	618.04	596.61	575.73	555.54	536.23	517.98	500.91	485.10	470.65	457.58			
11.62	DISCHG	446.01	436.02	427.63	420.91	415.78	412.05	409.31	407.23	405.62	404.27			
12.45	DISCHG	403.09	401.92	400.59	399.05	397.27	395.20	392.92	390.48	387.72	384.48			
13.28	DISCHG	380.62	376.06	370.66	364.37	357.38	350.01	342.59	335.37	328.54	322.14			
14.11	DISCHG	316.02	310.16	304.53	299.15	293.99	289.01	284.23	279.72	275.57	271.89			
14.94	DISCHG	268.75	266.19	264.16	262.62	261.47	260.63	260.06	259.72	259.60	259.66			
15.77	DISCHG	259.90	260.29	260.85	261.54	262.33	263.22	264.15	265.09	266.01	266.86			
16.60	DISCHG	267.59	268.15	268.48	268.55	268.31	267.77	266.94	265.87	264.60	263.14			
17.43	DISCHG	261.52	259.80	257.99	256.12	254.21	252.30	250.41	248.53	246.68	244.87			
18.26	DISCHG	243.14	241.52	240.02	238.68	237.48	236.41	235.44	234.57	233.77	233.05			
19.09	DISCHG	232.41	231.82	231.29	230.81	230.38	229.99	229.64	229.32	229.04	228.79			
19.92	DISCHG	228.56	228.34	228.10	227.81	227.42	226.92	226.27	225.44	224.38	223.04			
20.75	DISCHG	221.37	219.31	216.85	213.98	210.74	207.17	203.32	199.23	194.96	190.56			
21.58	DISCHG	186.09	181.60	177.13	172.77	168.55	164.51	160.65	156.98	153.50	150.23			
22.41	DISCHG	147.18	144.36	141.76	139.37	137.20	135.22	133.45	131.87	130.48	129.25			
23.24	DISCHG	128.13	127.09	126.09	125.12	124.18	123.28	122.44	121.68	121.02	120.46			
24.07	DISCHG	119.94	119.40	118.73	117.88	116.79	115.39	113.66	111.58	109.15	106.34			

RUNOFF VOLUME ABOVE BASEFLOW = 1.03 WATERSHED INCHES, 12137.75 CFS-HRS, 1003.06 ACRE-Feet; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 7

OUTPUT HYDROGRAPH= 6
 AREA= 17.98 SQ MI INPUT RUNOFF CURVE= 80, TIME OF CONCENTRATION= 2.32 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0814 HOURS

PEAK TIME(HRS)		PEAK DISCHARGE(CFS)				PEAK ELEVATION(FEET)								
7.50		3328.46				(RUNOFF)								
16.81		263.77				(RUNOFF)								
TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS								TIME INCREMENT = 0.08 HOURS			DRAINAGE AREA = 17.98 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	2.57	11.31			
5.81	DISCHG	32.37	73.41	140.39	234.26	354.02	498.75	668.61	867.46	1097.36	1355.99			
6.64	DISCHG	1635.60	1923.31	2203.77	2462.35	2690.81	2883.84	3040.54	3160.86	3248.01	3301.79			
7.47	DISCHG	3326.61	3322.50	3290.55	3233.49	3160.95	3073.20	2969.42	2847.67	2709.74	2560.25			
8.30	DISCHG	2408.43	2263.42	2132.33	2014.72	1908.87	1810.01	1717.59	1631.20	1551.11	1475.94			
9.13	DISCHG	1404.93	1335.97	1269.51	1205.77	1146.06	1090.79	1039.62	991.72	946.72	904.24			

9.96	DISCHG	864.41	827.22	792.45	759.87	729.41	700.96	674.34	649.68	626.91	605.37
10.79	DISCHG	584.57	564.37	544.72	525.73	507.52	490.22	474.00	458.96	445.36	433.37
11.62	DISCHG	423.01	414.22	407.15	401.83	397.93	395.24	393.53	392.61	392.18	391.94
12.45	DISCHG	391.42	390.56	389.40	387.96	386.13	384.00	381.69	379.14	376.20	372.66
13.28	DISCHG	368.47	363.50	357.74	351.40	344.75	338.09	331.48	324.87	318.45	312.30
14.11	DISCHG	306.40	300.70	295.21	289.92	284.79	279.83	275.13	270.78	266.90	263.56
14.94	DISCHG	260.81	258.64	256.98	255.75	254.87	254.28	253.94	253.80	253.84	254.07
15.77	DISCHG	254.45	254.99	255.66	256.46	257.37	258.36	259.36	260.36	261.31	262.17
16.60	DISCHG	262.90	263.44	263.73	263.73	263.40	262.76	261.84	260.68	259.30	257.75
17.43	DISCHG	256.06	254.27	252.40	250.48	248.53	246.60	244.67	242.77	240.90	239.11
18.26	DISCHG	237.43	235.88	234.49	233.24	232.14	231.14	230.25	229.45	228.73	228.08
19.09	DISCHG	227.50	226.97	226.49	226.06	225.67	225.31	225.00	224.71	224.46	224.24
19.92	DISCHG	224.04	223.86	223.65	223.39	223.02	222.52	221.87	221.02	219.92	218.53
20.75	DISCHG	216.77	214.61	212.01	208.99	205.59	201.87	197.86	193.63	189.23	184.74
21.58	DISCHG	180.19	175.65	171.17	166.84	162.69	158.74	154.98	151.42	148.08	144.97
22.41	DISCHG	142.09	139.44	137.01	134.79	132.78	130.96	129.35	127.95	126.71	125.59
23.24	DISCHG	124.56	123.59	122.65	121.73	120.84	120.01	119.26	118.59	118.02	117.56
24.07	DISCHG	117.12	116.64	116.00	115.14	114.01	112.54	110.74	108.58	106.04	103.12

RUNOFF VOLUME ABOVE BASEFLOW = 1.02 WATERSHED INCHES, 11890.26 CFS-HRS, 982.61 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 8

OUTPUT HYDROGRAPH= 6

AREA= 17.13 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.20 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0815 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.41	3221.37	(RUNOFF)
12.37	361.72	(RUNOFF)
16.77	248.47	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 17.13 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.21 2.42 11.28
5.81	DISCHG 33.13 76.11 146.62 245.91 372.65	526.48 708.20	921.68 1167.93 1442.06
6.64	DISCHG 1732.29 2023.06 2296.52 2539.45 2746.34	2914.33 3043.89	3136.93 3194.46 3219.77
7.47	DISCHG 3214.33 3179.57 3119.71 3042.28 2948.45	2836.47 2705.83	2559.74 2405.83 2253.64
8.30	DISCHG 2113.72 1988.91 1877.18 1775.49 1680.73	1592.96 950.01	1511.90 1436.31 1365.02 1295.73
9.13	DISCHG 1228.83 1164.69 1104.66 1049.26 997.95	904.62 861.99	822.16 785.09
9.96	DISCHG 750.49 718.24 688.25 660.35 634.74	611.53 590.18	570.07 550.93 532.55
10.79	DISCHG 514.73 497.27 480.07 463.17 446.81	431.34 417.12	404.28 393.01 383.33
11.62	DISCHG 375.25 368.77 364.05 361.14 359.79	359.65 353.87	351.46 348.86 345.91 342.73
12.45	DISCHG 361.51 360.81 359.71 358.09 356.07	353.87 351.46	348.86 345.91 342.73
13.28	DISCHG 339.09 334.74 329.57 323.76 317.66	311.37 305.14	299.14 293.31 287.67
14.11	DISCHG 282.11 276.69 271.41 266.25 261.28	256.57 252.27	248.47 245.28 242.74
14.94	DISCHG 240.78 239.33 238.29 237.60 237.20	237.02 237.02	237.19 237.50 237.95
15.77	DISCHG 238.53 239.25 240.12 241.09 242.13	243.19 244.25	245.28 246.25 247.11
16.60	DISCHG 247.80 248.28 248.47 248.32 247.83	247.04 245.98	244.67 243.16 241.50
17.43	DISCHG 239.72 237.86 235.92 233.96 231.99	230.03 228.10	226.23 224.45 222.80
18.26	DISCHG 221.31 219.99 218.83 217.80 216.90	216.09 215.36	214.72 214.13 213.60

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19.09	DISCHG	213.11	212.67	212.27	211.92	211.60	211.33	211.09	210.88	210.70	210.55
19.92	DISCHG	210.42	210.29	210.13	209.89	209.54	209.04	208.36	207.47	206.31	204.80
20.75	DISCHG	202.90	200.55	197.74	194.55	190.98	187.10	182.97	178.63	174.18	169.67
21.58	DISCHG	165.15	160.72	156.43	152.33	148.45	144.78	141.33	138.10	135.14	132.42
22.41	DISCHG	129.92	127.63	125.54	123.66	121.97	120.50	119.24	118.14	117.15	116.24
23.24	DISCHG	115.38	114.53	113.69	112.88	112.12	111.44	110.84	110.36	110.00	109.71
24.07	DISCHG	109.40	108.98	108.37	107.47	106.25	104.89	102.78	100.51	97.84	94.79

RUNOFF VOLUME ABOVE BASEFLOW = 1.00 WATERSHED INCHES, 11086.40 CFS-HRS, 916.18 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 9

OUTPUT HYDROGRAPH= 6

AREA= 16.84 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.14 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0839 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.37	3266.60	(RUNOFF)
12.37	353.91	(RUNOFF)
16.75	245.33	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 16.84 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.26 2.69 12.34
5.81	DISCHG 35.93 82.02 157.56 263.38	398.75 563.36 758.79	989.39 1254.21 1545.74
6.64	DISCHG 1850.82 2149.77 2424.89 2664.89	2863.41 3019.94 3137.21	3215.33 3257.25 3265.70
7.47	DISCHG 3242.04 3189.01 3113.65 3021.18	2909.43 2777.56 2628.25	2468.07 2308.50 2159.95
8.30	DISCHG 2026.92 1909.15 1802.79 1704.04	1612.93 1528.91 1451.01	1377.29 1305.98 1237.05
9.13	DISCHG 1171.24 1109.77 1052.93 1000.21	950.84 904.13 860.28	819.42 781.35 745.86
9.96	DISCHG 712.87 682.24 653.96 628.31	605.11 583.76 563.82	545.01 527.09 509.77
10.79	DISCHG 492.79 475.97 459.21 442.80	427.11 412.39 398.93	386.89 376.41 367.51
11.62	DISCHG 360.34 355.11 351.83 350.31	350.06 350.62 351.64	352.76 353.61 353.91
12.45	DISCHG 353.65 352.80 351.46 349.63	347.54 345.48 343.44	341.38 339.06 336.21
13.28	DISCHG 332.44 327.73 322.28 316.35	310.24 304.05 298.00	292.13 286.45 280.81
14.11	DISCHG 275.24 269.78 264.41 259.21	254.22 249.63 245.53	242.04 239.26 237.08
14.94	DISCHG 235.50 234.35 233.58 233.13	232.91 232.92 233.07	233.37 233.80 234.36
15.77	DISCHG 235.07 235.89 236.84 237.88	238.97 240.09 241.17	242.23 243.22 244.09
16.60	DISCHG 244.78 245.22 245.33 245.08	244.49 243.59 242.41	240.99 239.38 237.62
17.43	DISCHG 235.75 233.79 231.78 229.76	227.74 225.74 223.80	221.95 220.22 218.66
18.26	DISCHG 217.28 216.07 215.01 214.08	213.24 212.50 211.83	211.22 210.67 210.16
19.09	DISCHG 209.71 209.30 208.94 208.63	208.36 208.12 207.91	207.74 207.58 207.45
19.92	DISCHG 207.34 207.23 207.08 206.85	206.49 205.97 205.27	204.33 203.10 201.49
20.75	DISCHG 199.46 196.96 194.02 190.64	186.91 182.87 178.59	174.13 169.57 164.98
21.58	DISCHG 160.43 156.00 151.75 147.73	143.94 140.37 137.05	133.99 131.19 128.61
22.41	DISCHG 126.26 124.10 122.14 120.39	118.86 117.55 116.44	115.45 114.55 113.70
23.24	DISCHG 112.89 112.07 111.25 110.48	109.77 109.15 108.65	108.27 108.00 107.80
24.07	DISCHG 107.53 107.14 106.50 105.55	104.27 102.63 100.64	98.26 95.48 92.29

RUNOFF VOLUME ABOVE BASEFLOW = 1.01 WATERSHED INCHES, 10969.76 CFS-HRS, 906.54 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 10

OUTPUT HYDROGRAPH= 6
AREA= 16.28 SQ MI INPUT RUNOFF CURVE= 80. TIME OF CONCENTRATION= 2.06 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0808 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.31	3210.47	(RUNOFF)
12.36	335.56	(RUNOFF)
16.73	236.06	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 16.28 SQ. MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 2.08 11.21
5.81	DISCHG 34.65 81.37 160.21 270.51	413.62 587.39 794.62	1040.04 1318.98 1622.94
6.64	DISCHG 1933.48 2230.33 2495.67 2720.78	2900.76 3038.38 3134.29	3190.45 3210.36 3195.98
7.47	DISCHG 3149.85 3077.94 2986.33 2874.68	2742.28 2591.37 2429.20	2266.95 2115.96 1980.74
8.30	DISCHG 1861.73 1754.26 1655.30 1564.59	1481.30 1404.54 1331.32	1260.56 1192.11 1127.21
9.13	DISCHG 1067.19 1011.53 959.89 911.14	865.07 821.99 781.86	744.48 709.67 677.35
9.96	DISCHG 647.45 620.33 596.07 574.04	553.83 535.17 517.68	501.10 485.09 469.33
10.79	DISCHG 453.60 437.95 422.46 407.33	392.90 379.45 367.17	356.22 346.98 339.61
11.62	DISCHG 334.29 330.80 328.99 328.62	329.37 330.81 332.57	334.20 335.23 335.55
12.45	DISCHG 335.14 334.26 332.99 331.63	330.44 329.41 328.16	326.39 323.97 320.71
13.28	DISCHG 316.54 311.57 306.05 300.23	294.32 288.44 282.71	277.10 271.51 265.92
14.11	DISCHG 260.38 254.92 249.59 244.51	239.80 235.59 232.00	229.09 226.84 225.18
14.94	DISCHG 223.98 223.18 222.70 222.51	222.54 222.73 223.07	223.52 224.10 224.80
15.77	DISCHG 225.61 226.51 227.52 228.61	229.73 230.86 231.98	233.07 234.09 234.97
16.60	DISCHG 235.63 236.01 236.02 235.67	234.95 233.92 232.60	231.05 229.32 227.46
17.43	DISCHG 225.50 223.46 221.40 219.34	217.30 215.32 213.44	211.69 210.12 208.75
18.26	DISCHG 207.55 206.52 205.59 204.77	204.02 203.35 202.75	202.21 201.72 201.28
19.09	DISCHG 200.89 200.56 200.27 200.02	199.80 199.60 199.44	199.80 199.17 199.07
19.92	DISCHG 198.98 198.90 198.77 198.55	198.20 197.68 196.95	195.98 194.68 192.99
20.75	DISCHG 190.83 188.20 185.11 181.60	177.75 173.59 169.22	164.70 160.10 155.52
21.58	DISCHG 151.04 146.73 142.65 138.82	135.24 131.92 128.87	126.10 123.57 121.24
22.41	DISCHG 119.10 117.15 115.41 113.89	112.59 111.49 110.54	109.69 108.90 108.15
23.24	DISCHG 107.39 106.63 105.87 105.18	104.57 104.08 103.70	103.45 103.28 103.13
24.07	DISCHG 102.92 102.53 101.87 100.86	99.53 97.84 95.78	93.33 90.45 87.15

RUNOFF VOLUME ABOVE BASEFLOW = 1.00 WATERSHED INCHES, 10487.60 CFS-HRS, 866.69 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 11

OUTPUT HYDROGRAPH= 6
AREA= 13.90 SQ MI INPUT RUNOFF CURVE= 79. TIME OF CONCENTRATION= 1.92 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0853 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.21	2685.63	(RUNOFF)
12.49	272.79	(RUNOFF)
16.68	195.34	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 13.90 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.75	9.63
5.81	DISCHG	30.63	73.09	146.06	249.71	383.36	548.95	747.87	981.26	1244.82	1521.71
6.64	DISCHG	1793.11	2038.34	2246.78	2414.54	2539.18	2623.88	2672.06	2685.51	2666.48	2619.14
7.47	DISCHG	2548.81	2458.87	2349.51	2221.08	2079.10	1933.92	1796.51	1673.88	1565.72	1469.20
8.30	DISCHG	1381.96	1302.43	1230.15	1164.20	1101.66	1041.30	983.42	928.97	878.30	831.54
9.13	DISCHG	787.46	745.70	706.70	670.09	635.76	604.00	574.39	546.90	522.04	499.64
9.96	DISCHG	479.48	461.53	445.42	430.73	417.18	404.39	392.10	380.22	368.53	356.78
10.79	DISCHG	344.98	333.16	321.29	309.65	298.71	288.77	279.98	272.43	266.28	261.72
11.62	DISCHG	258.86	257.64	257.95	259.42	261.69	264.41	267.00	269.20	270.84	272.09
12.45	DISCHG	272.75	272.75	272.37	271.78	271.03	269.96	268.47	266.40	263.64	260.16
13.28	DISCHG	256.04	251.52	246.76	241.91	237.08	232.28	227.45	222.56	217.60	212.62
14.11	DISCHG	207.72	203.01	198.59	194.59	191.13	188.26	185.99	184.25	183.00	182.14
14.94	DISCHG	181.63	181.43	181.45	181.65	182.01	182.50	183.08	183.72	184.41	185.17
15.77	DISCHG	185.99	186.88	187.83	188.83	189.87	190.94	192.00	193.03	193.96	194.71
16.60	DISCHG	195.19	195.34	195.13	194.56	193.66	192.47	191.05	189.47	187.76	185.95
17.43	DISCHG	184.09	182.22	180.38	178.59	176.88	175.29	173.86	172.59	171.49	170.53
18.26	DISCHG	169.69	168.94	168.28	167.69	167.16	166.70	166.29	165.92	165.61	165.34
19.09	DISCHG	165.11	164.90	164.72	164.57	164.43	164.32	164.23	164.16	164.10	164.05
19.92	DISCHG	164.02	163.98	163.89	163.70	163.38	162.88	162.17	161.20	159.90	158.20
20.75	DISCHG	156.05	153.46	150.48	147.14	143.51	139.66	135.65	131.56	127.48	123.50
21.58	DISCHG	119.71	116.16	112.86	109.84	107.09	104.64	102.43	100.41	98.53	96.80
22.41	DISCHG	95.24	93.85	92.65	91.64	90.81	90.11	89.49	88.93	88.38	87.82
23.24	DISCHG	87.23	86.64	86.10	85.64	85.27	85.01	84.86	84.79	84.74	84.67
24.07	DISCHG	84.49	84.10	83.44	82.48	81.20	79.61	77.64	75.28	72.50	69.32

RUNOFF VOLUME ABOVE BASEFLOW = 0.94 WATERSHED INCHES; 8427.06 CFS-HRS; 696.41 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 12
 OUTPUT HYDROGRAPH= 6
 AREA= 13.41 SQ MI INPUT RUNOFF CURVE= 78, TIME OF CONCENTRATION= 1.89 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0840 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.19	2590.43	(RUNOFF)
12.48	261.54	(RUNOFF)
16.66	187.43	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 13.41 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.68	9.39
5.81	DISCHG	30.08	72.06	143.53	245.78	377.41	540.65	737.07	967.36	1226.48	1498.10
6.64	DISCHG	1762.34	1998.94	2197.33	2354.94	2469.35	2544.17	2583.51	2588.63	2562.19	2508.87
7.47	DISCHG	2434.12	2340.52	2227.24	2095.66	1953.74	1812.76	1683.48	1569.62	1468.89	1378.74
8.30	DISCHG	1296.94	1222.59	1155.35	1092.98	1033.34	976.03	921.68	870.84	823.73	779.67
9.13	DISCHG	737.94	698.72	661.96	627.43	595.28	565.41	537.61	512.18	489.23	468.51
9.96	DISCHG	450.03	433.62	418.85	405.39	392.89	380.99	369.63	358.64	347.70	336.69
10.79	DISCHG	325.58	314.34	303.08	292.15	281.93	272.58	264.24	257.09	251.36	247.25
11.62	DISCHG	244.82	244.03	244.72	246.50	249.09	252.13	255.07	257.64	259.63	260.95

12.45	DISCHG	261.50	261.40	260.97	260.35	259.58	258.46	256.90	254.80	252.02	248.57
13.28	DISCHG	244.50	240.10	235.51	230.86	226.24	221.60	216.92	212.13	207.26	202.39
14.11	DISCHG	197.64	193.09	188.87	185.13	181.93	179.33	177.29	175.76	174.67	173.95
14.94	DISCHG	173.57	173.46	173.56	173.83	174.25	174.77	175.38	176.03	176.73	177.49
15.77	DISCHG	178.30	179.17	180.11	181.09	182.12	183.17	184.24	185.25	186.15	186.87
16.60	DISCHG	187.31	187.42	187.15	186.54	185.60	184.38	182.95	181.36	179.66	177.88
17.43	DISCHG	176.06	174.24	172.45	170.73	169.10	167.60	166.26	165.08	164.06	163.17
18.26	DISCHG	162.39	161.69	161.07	160.52	160.04	159.61	159.24	158.91	158.63	158.38
19.09	DISCHG	158.17	157.98	157.82	157.68	157.57	157.47	157.39	157.33	157.28	157.24
19.92	DISCHG	157.21	157.19	157.11	156.94	156.63	156.14	155.44	154.50	153.20	151.51
20.75	DISCHG	149.36	146.78	143.82	140.51	136.92	133.14	129.20	125.20	121.23	117.38
21.58	DISCHG	113.73	110.32	107.18	104.33	101.75	99.48	97.42	95.54	93.78	92.17
22.41	DISCHG	90.71	89.43	88.33	87.41	86.66	86.03	85.48	84.97	84.46	83.92
23.24	DISCHG	83.36	82.82	82.32	81.89	81.57	81.35	81.24	81.19	81.15	81.09
24.07	DISCHG	80.90	80.51	79.85	78.90	77.64	76.07	74.13	71.79	69.04	65.89

RUNOFF VOLUME ABOVE BASEFLOW = 0.93 WATERSHED INCHES; 8043.85 CFS-HRS; 664.74 ACRE-Feet; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 13

OUTPUT HYDROGRAPH= 6
 AREA= 13.28 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 1.85 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0822 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(Feet)
7.16	2609.86	(RUNOFF)
12.46	259.17	(RUNOFF)
16.65	185.86	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 13.28 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 1.69 9.83
5.81	DISCHG 31.56 75.62 151.55 259.40	398.69 571.42 779.09	1021.18 1291.80 1570.91
6.64	DISCHG 1837.92 2071.15 2263.69 2412.78	2516.15 2580.66 2608.33	2601.23 2562.39 2497.13
7.47	DISCHG 2411.31 2305.66 2179.97 2037.26	1889.69 1748.41 1624.37	1515.35 1418.82 1331.79
8.30	DISCHG 1252.54 1180.90 1116.43 1054.96	996.17 940.03 887.53	838.83 793.81 750.73
9.13	DISCHG 710.10 672.25 636.47 603.04	572.18 543.17 516.55	492.70 470.89 451.36
9.96	DISCHG 434.17 418.84 405.07 392.48	380.56 369.30 358.66	348.13 337.62 327.03
10.79	DISCHG 316.15 305.18 294.33 283.84	273.91 264.69 256.46	249.49 244.04 240.30
11.62	DISCHG 238.31 238.01 239.21 241.63	244.97 248.76 252.44	255.51 257.59 258.79
12.45	DISCHG 259.16 258.95 258.43 257.75	256.84 255.55 253.82	251.56 248.64 245.05
13.28	DISCHG 240.95 236.56 232.01 227.41	222.79 218.12 213.34	208.44 203.49 198.58
14.11	DISCHG 193.82 189.32 185.22 181.64	178.64 176.24 174.38	173.01 172.06 171.48
14.94	DISCHG 171.23 171.23 171.44 171.81	172.31 172.91 173.57	174.27 175.01 175.80
15.77	DISCHG 176.63 177.52 178.47 179.47	180.53 181.63 182.73	183.76 184.67 185.38
16.60	DISCHG 185.79 185.83 185.47 184.76	183.72 182.40 180.88	179.22 177.46 175.63
17.43	DISCHG 173.76 171.92 170.13 168.42	166.81 165.34 164.06	162.94 161.98 161.13
18.26	DISCHG 160.38 159.73 159.15 158.64	158.18 157.79 157.44	157.13 156.87 156.65
19.09	DISCHG 156.45 156.28 156.13 156.01	155.91 155.82 155.75	155.70 155.66 155.63
19.92	DISCHG 155.61 155.59 155.51 155.33	155.00 154.49 153.76	152.76 151.40 149.61
20.75	DISCHG 147.37 144.70 141.64 138.24	134.58 130.72 126.72	122.69 118.70 114.87

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21.58	DISCHG	111.25	107.90	104.83	102.07	99.62	97.45	95.49	93.67	91.99	90.45
22.41	DISCHG	89.07	87.85	86.82	85.97	85.28	84.71	84.20	83.72	83.23	82.71
23.24	DISCHG	82.18	81.66	81.20	80.81	80.52	80.34	80.27	80.24	80.22	80.17
24.07	DISCHG	79.99	79.59	78.91	77.94	76.66	75.04	73.04	70.61	67.74	64.48

RUNOFF VOLUME ABOVE BASEFLOW = 0.93 WATERSHED INCHES; 7965.65 CFS-HRS; 658.28 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 14

OUTPUT HYDROGRAPH= 6
AREA= 12.75 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 1.81 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0804 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.14	2457.47	(RUNOFF)
12.43	244.81	(RUNOFF)
16.63	175.72	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 12.75 SQ MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.07 1.34 8.56
5.81	DISCHG 28.76 70.63 142.35 246.03	380.60 548.15 750.10	985.31 1245.20 1511.69
6.64	DISCHG 1763.01 1981.43 2159.17 2293.71	2385.64 2439.37 2457.44	2442.09 2397.32 2328.48
7.47	DISCHG 2239.58 2130.71 2003.02 1863.12	1723.12 1594.51 1482.48	1383.80 1295.91 1216.47
8.30	DISCHG 1144.60 1079.74 1019.92 962.98	908.88 857.90 810.43	766.30 724.64 685.12
9.13	DISCHG 648.06 613.20 580.48 550.03	521.60 495.42 471.67	450.03 430.55 413.32
9.96	DISCHG 398.10 384.60 372.40 361.05	350.49 340.59 330.99	321.53 311.98 302.12
10.79	DISCHG 292.11 282.11 272.15 262.32	252.91 244.21 236.52	230.11 225.23 222.07
11.62	DISCHG 220.65 220.98 222.92 226.19	230.41 234.87 238.79	241.72 243.65 244.65
12.45	DISCHG 244.80 244.46 243.84 243.09	242.06 240.65 238.84	236.53 233.60 230.05
13.28	DISCHG 226.12 221.95 217.69 213.36	208.96 204.47 199.82	195.08 190.30 185.59
14.11	DISCHG 181.07 176.86 173.10 169.87	167.22 165.11 163.50	162.34 161.57 161.16
14.94	DISCHG 161.05 161.16 161.47 161.92	162.48 163.13 163.82	164.52 165.26 166.04
15.77	DISCHG 166.86 167.73 168.64 169.62	170.67 171.76 172.83	173.83 174.71 175.36
16.60	DISCHG 175.69 175.66 175.23 174.46	173.36 172.02 170.51	168.87 167.14 165.35
17.43	DISCHG 163.55 161.78 160.07 158.44	156.94 155.59 154.43	153.42 152.55 151.79
18.26	DISCHG 151.12 150.53 150.02 149.57	149.17 148.81 148.51	148.24 148.02 147.82
19.09	DISCHG 147.65 147.50 147.38 147.28	147.20 147.13 147.08	147.04 147.01 146.99
19.92	DISCHG 146.98 146.96 146.89 146.72	146.41 145.91 145.19	144.19 142.84 141.06
20.75	DISCHG 138.84 136.20 133.18 129.83	126.24 122.47 118.58	114.67 110.85 107.19
21.58	DISCHG 103.77 100.63 97.80 95.28	93.07 91.11 89.33	87.68 85.14 84.74
22.41	DISCHG 83.48 82.39 81.47 80.73	80.13 79.64 79.20	78.77 78.32 77.85
23.24	DISCHG 77.35 76.88 76.46 76.12	75.88 75.75 75.71	75.71 75.71 75.67
24.07	DISCHG 75.49 75.10 74.43 73.48	72.22 70.61 68.61	66.20 63.35 60.12

RUNOFF VOLUME ABOVE BASEFLOW = 0.90 WATERSHED INCHES; 7432.07 CFS-HRS; 614.19 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 15

OUTPUT HYDROGRAPH= 6
AREA= 9.71 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.63 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0836 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.02	1735.79	(RUNOFF)
12.31	174.68	(RUNOFF)
16.56	125.27	(RUNOFF)
19.98	104.36	(RUNOFF)
23.95	53.62	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 9.71 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	5.55
5.81	DISCHG	20.49	53.31	111.37	197.28	310.48	452.30	623.90	820.19	1026.90	1225.23
6.64	DISCHG	1397.72	1534.24	1634.08	1699.30	1731.34	1733.40	1708.72	1661.24	1595.68	1513.07
7.47	DISCHG	1415.06	1308.27	1202.61	1106.64	1023.86	951.52	886.45	828.46	776.92	730.34
8.30	DISCHG	687.26	647.55	611.23	577.99	546.72	516.84	488.43	461.51	435.93	411.78
9.13	DISCHG	389.02	367.85	348.46	330.52	314.15	299.40	286.29	274.75	264.66	255.90
9.96	DISCHG	248.23	241.41	235.25	229.51	224.03	218.74	213.48	207.92	201.86	195.27
10.79	DISCHG	188.27	181.00	173.60	166.30	159.49	153.61	149.01	145.98	144.75	145.22
11.62	DISCHG	147.35	150.92	155.51	160.51	165.28	169.28	172.22	173.99	174.64	174.48
12.45	DISCHG	173.85	172.98	171.93	170.69	169.28	167.74	166.01	164.00	161.68	159.12
13.28	DISCHG	156.39	153.44	150.23	146.81	143.20	139.43	135.58	131.78	128.15	124.79
14.11	DISCHG	121.77	119.19	117.08	115.39	114.07	113.09	112.46	112.14	112.08	112.24
14.94	DISCHG	112.57	113.04	113.61	114.24	114.89	115.54	116.19	116.83	117.45	118.08
15.77	DISCHG	118.71	119.38	120.12	120.95	121.83	122.72	123.58	124.33	124.91	125.23
16.60	DISCHG	125.24	124.91	124.27	123.38	122.28	121.03	119.66	118.21	116.73	115.27
17.43	DISCHG	113.87	112.55	111.36	110.31	109.42	108.67	108.03	107.47	106.99	106.57
18.26	DISCHG	106.20	105.87	105.60	105.36	105.16	104.98	104.84	104.71	104.61	104.53
19.09	DISCHG	104.46	104.41	104.37	104.34	104.32	104.31	104.30	104.31	104.31	104.33
19.92	DISCHG	104.35	104.36	104.32	104.17	103.89	103.44	102.76	101.80	100.50	98.83
20.75	DISCHG	96.79	94.44	91.84	89.01	86.03	82.95	79.88	76.89	74.07	71.48
21.58	DISCHG	69.18	67.20	65.54	64.14	62.92	61.80	60.75	59.77	58.85	58.02
22.41	DISCHG	57.28	56.68	56.22	55.87	55.60	55.40	55.21	55.01	54.77	54.50
23.24	DISCHG	54.21	53.94	53.70	53.54	53.45	53.45	53.49	53.55	53.60	53.61
24.07	DISCHG	53.48	53.15	52.58	51.75	50.62	49.13	47.27	45.01	42.40	39.54

RUNOFF VOLUME ABOVE BASEFLOW = 0.80 WATERSHED INCHES, 5008.29 CFS-HRS, 413.88 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 16
 OUTPUT HYDROGRAPH= 6
 AREA= 6.47 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.46 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0811 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.90	1217.11	(RUNOFF)
12.19	116.45	(RUNOFF)
16.50	82.66	(RUNOFF)
19.99	68.31	(RUNOFF)
23.97	35.07	(RUNOFF)

TIME(HRS) FIRST HYDROGRAPH POINT = 0.00 HOURS TIME INCREMENT = 0.08 HOURS DRAINAGE AREA = 6.47 SQ.MI.

4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	3.94
5.81	DISCHG	15.62	42.27	91.50	165.47	263.26	385.79	531.12	690.49	848.00	983.48
6.64	DISCHG	1088.51	1161.64	1203.55	1217.04	1207.17	1174.60	1126.19	1063.07	987.30	904.14
7.47	DISCHG	822.37	751.23	690.10	636.37	588.36	545.85	508.15	474.00	443.38	416.44
8.30	DISCHG	392.75	371.32	351.34	332.42	314.24	296.77	279.98	264.11	249.21	235.08
9.13	DISCHG	221.91	209.82	198.81	188.85	180.09	172.56	166.13	160.64	155.88	151.82
9.96	DISCHG	148.41	145.38	142.48	139.59	136.62	133.42	129.87	125.86	121.48	116.90
10.79	DISCHG	112.32	107.89	103.48	99.26	95.55	92.60	90.60	89.74	90.25	92.30
11.62	DISCHG	95.63	99.75	104.21	108.51	112.15	114.73	116.12	116.44	115.97	114.97
12.45	DISCHG	113.70	112.35	111.06	109.92	108.90	107.92	106.89	105.75	104.36	102.64
13.28	DISCHG	100.56	98.22	95.65	92.85	89.95	87.09	84.38	81.85	79.56	77.63
14.11	DISCHG	76.05	74.76	73.72	72.94	72.40	72.10	72.02	72.13	72.42	72.82
14.94	DISCHG	73.30	73.83	74.39	74.94	75.48	75.99	76.47	76.89	77.27	77.66
15.77	DISCHG	78.07	78.52	79.06	79.69	80.38	81.08	81.72	82.24	82.58	82.65
16.60	DISCHG	82.44	81.95	81.23	80.34	79.33	78.23	77.10	75.98	74.91	73.91
17.43	DISCHG	73.01	72.23	71.59	71.05	70.59	70.19	69.86	69.57	69.31	69.10
18.26	DISCHG	68.92	68.77	68.64	68.53	68.45	68.37	68.32	68.27	68.23	68.21
19.09	DISCHG	68.19	68.18	68.18	68.18	68.19	68.20	68.21	68.23	68.25	68.27
19.92	DISCHG	68.29	68.31	68.28	68.15	67.91	67.50	66.90	66.05	64.91	63.48
20.75	DISCHG	61.82	59.95	57.92	55.77	53.53	51.30	49.13	47.10	45.27	43.73
21.58	DISCHG	42.48	41.49	40.70	40.03	39.45	38.89	38.34	37.80	37.27	36.79
22.41	DISCHG	36.38	36.07	35.86	35.74	35.69	35.67	35.65	35.60	35.49	35.34
23.24	DISCHG	35.15	34.96	34.81	34.71	34.69	34.73	34.83	34.94	35.03	35.07
24.07	DISCHG	34.99	34.71	34.21	33.47	32.47	31.16	29.52	27.62	25.53	23.33

RUNOFF VOLUME ABOVE BASEFLOW = 0.78 WATERSHED INCHES, 3241.20 CFS-HRS, 267.85 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 17

OUTPUT HYDROGRAPH= 6

AREA= 4.98 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.27 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0847 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.75	1022.99	(RUNOFF)
12.06	92.02	(RUNOFF)
16.41	63.70	(RUNOFF)
19.99	52.03	(RUNOFF)
23.95	26.88	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 4.98 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.41 3.86
5.81	DISCHG 15.98 44.20 96.72 177.67	286.34 420.08 570.41	719.92 847.55 940.56
6.64	DISCHG 997.47 1021.22 1017.29 989.54	941.04 877.81 803.06	723.94 650.44 589.04
7.47	DISCHG 537.08 490.67 449.24 412.11	378.64 349.34 324.79	304.05 285.95 270.10
8.30	DISCHG 256.00 243.19 230.77 218.71	206.66 194.80 183.30	172.23 161.79 152.30
9.13	DISCHG 143.68 136.13 129.66 124.30	119.92 116.16 112.86	109.93 107.30 104.94
9.96	DISCHG 102.90 101.15 99.63 98.24	96.74 94.86 92.50	89.62 86.33 82.79
10.79	DISCHG 79.14 75.51 72.01 68.84	66.27 64.57 63.96	64.70 64.94 70.58
11.62	DISCHG 75.12 79.94 84.51 88.31	90.91 91.96 91.73	90.59 88.81 86.70

12.45	DISCHG	84.70	83.28	82.33	81.72	81.40	81.21	80.80	79.85	78.41	76.54
13.28	DISCHG	74.31	71.79	69.17	66.62	64.20	61.99	60.07	58.49	57.19	56.11
14.11	DISCHG	55.24	54.56	54.07	53.77	53.67	53.78	54.06	54.46	54.96	55.49
14.94	DISCHG	56.05	56.60	57.12	57.59	58.01	58.36	58.67	58.94	59.21	59.51
15.77	DISCHG	59.87	60.30	60.82	61.45	62.13	62.75	63.27	63.61	63.69	63.45
16.60	DISCHG	62.93	62.19	61.29	60.28	59.21	58.17	57.19	56.28	55.49	54.84
17.43	DISCHG	54.31	53.87	53.50	53.20	52.93	52.71	52.52	52.37	52.25	52.14
18.26	DISCHG	52.06	51.99	51.94	51.89	51.87	51.84	51.83	51.82	51.82	51.82
19.09	DISCHG	51.83	51.84	51.85	51.87	51.88	51.90	51.92	51.94	51.94	51.99
19.92	DISCHG	52.01	52.03	51.99	51.86	51.59	51.14	50.46	49.49	48.26	46.81
20.75	DISCHG	45.18	43.43	41.57	39.65	37.73	35.88	34.20	32.77	31.62	30.76
21.58	DISCHG	30.15	29.72	29.40	29.15	28.91	28.60	28.22	27.81	27.41	27.04
22.41	DISCHG	26.75	26.61	26.61	26.70	26.83	26.97	27.06	27.04	26.91	26.71
23.24	DISCHG	26.49	26.27	26.11	26.08	26.16	26.32	26.51	26.71	26.85	26.87
24.07	DISCHG	26.71	26.34	25.73	24.86	23.71	22.26	20.58	18.73	16.82	14.92

RUNOFF VOLUME ABOVE BASEFLOW = 0.76 WATERSHED INCHES, 2450.92 CFS-HRS, 202.54 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 18

OUTPUT HYDROGRAPH= 6

AREA= 2.85 SQ MI INPUT RUNOFF CURVE= 72. TIME OF CONCENTRATION= 0.91 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0867 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.51	565.61	(RUNOFF)
11.84	51.37	(RUNOFF)
12.77	41.28	(RUNOFF)
16.25	32.91	(RUNOFF)
19.97	26.34	(RUNOFF)
21.76	14.32	(RUNOFF)
22.81	14.01	(RUNOFF)
23.81	14.08	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 2.85 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.14 1.76
5.81	DISCHG 9.79 32.36 82.28 161.69	264.99 376.89 473.15 536.17	563.35 559.78
6.64	DISCHG 531.62 486.24 431.33 376.20	329.09 291.37 260.06 233.17	209.29 188.18
7.47	DISCHG 169.85 153.97 140.40 129.14	120.30 113.71 109.15 105.89	103.15 100.32
8.30	DISCHG 96.83 92.40 87.18 81.48	75.67 70.09 65.05 60.82	57.56 55.16
9.13	DISCHG 53.31 51.85 50.69 49.78	49.08 48.54 48.13 47.81	47.58 47.42
9.96	DISCHG 47.31 47.17 46.84 46.19	45.07 43.41 41.33 39.02	36.66 34.40
10.79	DISCHG 32.36 30.62 29.23 28.28	27.98 28.52 30.14 33.03	36.96 41.37
11.62	DISCHG 45.57 48.97 51.01 51.28	49.88 47.40 44.57 41.93	39.95 38.89
12.45	DISCHG 38.81 39.44 40.31 41.03	41.27 40.81 39.67 38.04	36.17 34.26
13.28	DISCHG 32.49 30.93 29.66 28.68	27.92 27.32 26.84 26.45	26.14 25.91
14.11	DISCHG 25.76 25.73 25.82 26.07	26.44 26.88 27.36 27.84	28.28 28.66
14.94	DISCHG 28.98 29.24 29.44 29.61	29.75 29.87 29.98 30.08	30.20 30.37
15.77	DISCHG 30.64 31.02 31.51 32.04	32.50 32.82 32.90 32.69	32.19 31.49
16.60	DISCHG 30.69 29.88 29.11 28.43	27.88 27.44 27.11 26.85	26.64 26.48

17.43	DISCHG	26.35	26.25	26.18	26.12	26.08	26.06	26.04	26.02	26.02	26.02
18.26	DISCHG	26.02	26.03	26.03	26.04	26.05	26.07	26.08	26.09	26.11	26.13
19.09	DISCHG	26.15	26.17	26.18	26.20	26.22	26.24	26.26	26.27	26.29	26.31
19.92	DISCHG	26.33	26.33	26.27	26.09	25.72	25.11	24.27	23.27	22.17	21.03
20.75	DISCHG	19.88	18.72	17.58	16.53	15.60	14.83	14.25	13.90	13.78	13.86
21.58	DISCHG	14.04	14.22	14.32	14.28	14.07	13.75	13.38	13.05	12.83	12.77
22.41	DISCHG	12.89	13.15	13.46	13.76	13.96	14.00	13.88	13.63	13.30	13.00
23.24	DISCHG	12.80	12.75	12.87	13.14	13.48	13.80	14.02	14.07	13.95	13.68
24.07	DISCHG	13.27	12.70	11.97	11.03	9.90	8.66	7.40	6.17	5.04	4.05

RUNOFF VOLUME ABOVE BASEFLOW = 0.61 WATERSHED INCHES, 1129.58 CFS-HRS, 93.35 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 19

OUTPUT HYDROGRAPH= 6
AREA= 5.37 SQ MI INPUT RUNOFF CURVE= B4, TIME OF CONCENTRATION= 1.76 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0838 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.06	1595.36	(RUNOFF)
12.39	125.12	(RUNOFF)
16.60	88.55	(RUNOFF)
23.87	37.51	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 5.37 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.49 3.59 13.17		
5.81	DISCHG 33.96 71.10 129.28 210.24 313.58 439.95 588.70 755.18 930.46 1102.21		
6.64	DISCHG 1256.41 1383.22 1479.62 1545.51 1583.25 1595.36 1584.26 1552.51 1502.95 1438.79		
7.47	DISCHG 1361.77 1273.89 1179.26 1083.77 994.31 915.59 847.32 787.46 733.45 684.75		
8.30	DISCHG 640.97 601.10 563.85 529.05 496.73 466.91 439.14 413.16 388.76 365.85		
9.13	DISCHG 344.39 324.44 305.89 288.64 272.87 258.59 245.55 233.79 223.32 214.09		
9.96	DISCHG 205.94 198.64 192.00 185.93 180.28 174.92 169.75 164.63 159.46 154.26		
10.79	DISCHG 149.00 143.64 138.18 132.77 127.60 122.85 118.66 115.19 112.62 111.08		
11.62	DISCHG 110.66 111.34 113.02 115.39 117.99 120.44 122.45 123.91 124.77 125.09		
12.45	DISCHG 125.03 124.72 124.27 123.73 123.04 122.17 121.07 119.73 118.12 116.24		
13.28	DISCHG 114.19 112.03 109.83 107.57 105.23 102.81 100.33 97.81 95.29 92.83		
14.11	DISCHG 90.51 88.40 86.55 85.01 83.76 82.78 82.04 81.52 81.21 81.07		
14.94	DISCHG 81.07 81.19 81.39 81.66 81.98 82.33 82.69 83.05 83.42 83.81		
15.77	DISCHG 84.22 84.65 85.11 85.61 86.14 86.69 87.23 87.73 88.15 88.44		
16.60	DISCHG 88.55 88.44 88.16 87.67 87.03 86.28 85.45 84.55 83.62 82.67		
17.43	DISCHG 81.72 80.79 79.90 79.07 78.31 77.66 77.09 76.61 76.19 75.82		
18.26	DISCHG 75.49 75.20 74.95 74.72 74.52 74.34 74.19 74.05 73.94 73.83		
19.09	DISCHG 73.74 73.67 73.60 73.54 73.50 73.46 73.42 73.40 73.37 73.35		
19.92	DISCHG 73.34 73.32 73.27 73.17 72.99 72.70 72.30 71.74 70.99 70.02		
20.75	DISCHG 68.82 67.40 65.80 64.05 62.18 60.22 58.21 56.22 54.29 52.46		
21.58	DISCHG 50.76 49.23 47.86 46.67 45.63 44.70 43.85 43.06 42.33 41.66		
22.41	DISCHG 41.07 40.56 40.14 39.80 39.53 39.31 39.10 38.90 38.69 38.47		
23.24	DISCHG 38.23 38.01 37.82 37.67 37.56 37.51 37.50 37.50 37.51 37.48		
24.07	DISCHG 37.38 37.17 36.83 36.32 35.65 34.80 33.74 32.45 30.94 29.23		

RUNOFF VOLUME ABOVE BASEFLOW = 1.25 WATERSHED INCHES, 4319.15 CFS-HRS, 356.93 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 20

OUTPUT HYDROGRAPH= 6
AREA= 2.15 SQ MI INPUT RUNOFF CURVE= B2. TIME OF CONCENTRATION= 0.71 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0789 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.31	1201.93	(RUNOFF)
11.72	62.60	(RUNOFF)
12.69	47.31	(RUNOFF)
16.16	36.55	(RUNOFF)
19.91	28.15	(RUNOFF)
21.69	15.38	(RUNOFF)
22.71	15.31	(RUNOFF)
23.71	15.35	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 2.15 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.92 9.03 38.95
5.81	DISCHG 111.93 249.67 460.43 715.02	962.23 1142.07 1201.88	1148.93 1024.71 871.64
6.64	DISCHG 719.41 588.72 491.48 415.68	354.96 305.52 265.91	233.46 206.17 182.98
7.47	DISCHG 163.27 146.95 134.10 124.87	119.15 115.88 114.09	112.65 110.59 107.05
8.30	DISCHG 101.53 94.59 86.95 79.54	73.00 67.73 63.84	61.01 58.89 57.30
9.13	DISCHG 56.12 55.25 54.61 54.16	53.83 53.60 53.44	53.32 53.25 53.20
9.96	DISCHG 53.16 52.99 52.39 51.06	48.77 45.70 42.31	39.01 36.08 33.70
10.79	DISCHG 31.93 30.64 29.68 29.22	29.77 32.00 36.34	42.38 49.12 55.48
11.62	DISCHG 60.27 62.52 61.64 58.12	53.22 48.11 43.76	40.96 40.21 41.13
12.45	DISCHG 42.99 45.06 46.69 47.30	46.38 44.22 41.47	38.61 35.98 33.78
13.28	DISCHG 32.13 30.92 30.02 29.34	28.82 28.44 28.17	27.97 27.83 27.75
14.11	DISCHG 27.77 27.95 28.35 28.93	29.62 30.30 30.92	31.43 31.83 32.13
14.94	DISCHG 32.35 32.53 32.67 32.77	32.86 32.92 32.98	33.04 33.17 33.43
15.77	DISCHG 33.89 34.52 35.25 35.95	36.43 36.53 36.10	35.18 34.00 32.77
16.60	DISCHG 31.63 30.66 29.93 29.40	29.01 28.72 28.50	28.34 28.22 28.13
17.43	DISCHG 28.07 28.03 28.00 27.97	27.96 27.95 27.95	27.95 27.95 27.95
18.26	DISCHG 27.96 27.97 27.98 27.99	28.00 28.01 28.02	28.03 28.04 28.05
19.09	DISCHG 28.06 28.06 28.07 28.08	28.09 28.10 28.11	28.12 28.13 28.14
19.92	DISCHG 28.15 28.13 27.99 27.59	26.82 25.66 24.26	22.81 21.41 20.09
20.75	DISCHG 18.83 17.61 16.43 15.35	14.48 13.90 13.69	13.84 14.22 14.69
21.58	DISCHG 15.11 15.36 15.32 15.00	14.48 13.90 13.39	13.07 13.04 13.35
22.41	DISCHG 13.86 14.44 14.94 15.25	15.28 14.98 14.49	13.93 13.44 13.13
23.24	DISCHG 13.11 13.38 13.87 14.44	14.95 15.28 15.33	15.05 14.55 13.97
24.07	DISCHG 13.29 12.45 11.34 9.93	8.32 6.70 5.20	3.93 2.92 2.19

RUNOFF VOLUME ABOVE BASEFLOW = 1.15 WATERSHED INCHES, 1602.20 CFS-HRS, 132.41 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 21

OUTPUT HYDROGRAPH= 6
AREA= 1.69 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 0.80 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0889 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.40	488.42	(RUNOFF)
11.77	36.11	(RUNOFF)
12.73	28.21	(RUNOFF)
16.20	22.27	(RUNOFF)
19.97	17.52	(RUNOFF)
21.73	9.53	(RUNOFF)
22.75	9.43	(RUNOFF)
23.75	9.46	(RUNOFF)

TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 1.69 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	4.97	
5.81	DISCHG	19.15	52.07	112.16	199.68	302.13	399.17	464.98	487.94	476.46	440.11	
6.64	DISCHG	389.66	334.89	284.74	244.02	212.00	185.86	163.90	145.20	129.26	115.48	
7.47	DISCHG	103.57	93.61	85.55	79.24	74.66	71.66	69.86	68.67	67.46	65.69	
8.30	DISCHG	62.90	59.05	54.66	50.28	46.32	42.91	40.11	38.07	36.53	35.35	
9.13	DISCHG	34.43	33.73	33.20	32.80	32.50	32.28	32.13	32.02	31.95	31.90	
9.96	DISCHG	31.87	31.79	31.51	30.90	29.84	28.36	26.62	24.82	23.11	21.59	
10.79	DISCHG	20.33	19.36	18.64	18.23	18.31	19.13	20.93	23.80	27.27	30.75	
11.62	DISCHG	33.69	35.59	36.09	35.15	33.15	30.69	28.31	26.42	25.34	25.24	
12.45	DISCHG	25.87	26.82	27.69	28.18	28.07	27.28	26.02	24.55	23.07	21.71	
13.28	DISCHG	20.56	19.65	18.98	18.46	18.06	17.74	17.50	17.31	17.17	17.08	
14.11	DISCHG	17.06	17.12	17.29	17.56	17.90	18.27	18.63	18.96	19.24	19.47	
14.94	DISCHG	19.64	19.78	19.89	19.98	20.05	20.11	20.17	20.22	20.31	20.45	
15.77	DISCHG	20.68	21.00	21.38	21.78	22.10	22.27	22.20	21.83	21.27	20.62	
16.60	DISCHG	19.97	19.38	18.87	18.48	18.18	17.96	17.79	17.66	17.56	17.48	
17.43	DISCHG	17.43	17.38	17.36	17.34	17.32	17.31	17.31	17.31	17.31	17.31	
18.26	DISCHG	17.32	17.32	17.33	17.34	17.35	17.36	17.37	17.38	17.39	17.40	
19.09	DISCHG	17.41	17.42	17.43	17.44	17.45	17.46	17.47	17.48	17.49	17.50	
19.92	DISCHG	17.51	17.51	17.46	17.29	16.93	16.35	15.62	14.81	13.98	13.17	
20.75	DISCHG	12.36	11.59	10.86	10.19	9.61	9.16	8.88	8.82	8.92	9.12	
21.58	DISCHG	9.33	9.48	9.53	9.42	9.19	8.90	8.62	8.40	8.31	8.36	
22.41	DISCHG	8.56	8.84	9.13	9.34	9.43	9.36	9.16	8.88	8.61	8.40	
23.24	DISCHG	8.32	8.38	8.58	8.85	9.13	9.35	9.46	9.41	9.20	8.92	
24.07	DISCHG	8.56	8.11	7.51	6.75	5.87	4.93	4.02	3.19	2.47	1.89	

RUNOFF VOLUME ABOVE BASEFLOW = 0.75 WATERSHED INCHES, 819.18 CFS-HRS, 67.70 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 22
 OUTPUT HYDROGRAPH= 6
 AREA= 0.50 SQ MI INPUT RUNOFF CURVE= 74. TIME OF CONCENTRATION= 0.34 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0453 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.12	240.63	(RUNOFF)
8.00	18.55	(RUNOFF)
9.93	9.00	(RUNOFF)
11.52	13.11	(RUNOFF)
12.52	8.99	(RUNOFF)
16.00	6.69	(RUNOFF)
19.92	4.98	(RUNOFF)
23.53	2.95	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 0.50 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.12 4.12
5.81	DISCHG 25.70 77.60 154.61 225.18	238.04 189.50 127.56	86.59 65.54 53.38
6.64	DISCHG 44.69 37.28 31.65 28.26	26.45 25.18 23.39	20.77 18.35 16.85
7.47	DISCHG 16.08 15.77 16.06 16.84	17.65 18.20 18.52	18.46 17.17 14.65
8.30	DISCHG 12.18 10.60 9.77 9.31	9.07 8.94 8.87	8.84 8.83 8.83
9.13	DISCHG 8.84 8.86 8.87 8.89	8.90 8.92 8.93	8.95 8.96 8.98
9.96	DISCHG 8.99 8.91 8.36 7.26	6.14 5.41 5.02	4.80 4.68 4.62
10.79	DISCHG 4.58 4.57 4.56 4.73	5.79 8.02 10.34	11.90 12.75 13.08
11.62	DISCHG 12.33 10.26 8.00 6.48	5.66 5.28 5.53	6.51 7.62 8.39
12.45	DISCHG 8.81 8.99 8.63 7.60	6.45 5.66 5.23	4.99 4.86 4.79
13.28	DISCHG 4.75 4.73 4.73 4.72	4.72 4.73 4.73	4.73 4.74 4.75
14.11	DISCHG 4.84 5.07 5.32 5.50	5.59 5.65 5.68	5.70 5.72 5.73
14.94	DISCHG 5.73 5.74 5.75 5.75	5.75 5.76 5.76	5.78 5.86 6.09
15.77	DISCHG 6.34 6.53 6.64 6.69	6.57 6.15 5.65	5.29 5.10 4.99
16.60	DISCHG 4.93 4.90 4.88 4.88	4.88 4.87 4.88	4.88 4.88 4.89
17.43	DISCHG 4.89 4.89 4.90 4.90	4.90 4.90 4.91	4.91 4.91 4.92
18.26	DISCHG 4.92 4.92 4.93 4.93	4.93 4.94 4.94	4.94 4.94 4.95
19.09	DISCHG 4.95 4.95 4.96 4.96	4.96 4.97 4.97	4.97 4.97 4.98
19.92	DISCHG 4.98 4.98 4.87 4.46	3.94 3.52 3.28	3.15 3.03 2.79
20.75	DISCHG 2.50 2.28 2.15 2.09	2.10 2.28 2.53	2.74 2.86 2.93
21.58	DISCHG 2.91 2.74 2.49 2.28	2.16 2.09 2.10	2.28 2.53 2.74
22.41	DISCHG 2.87 2.94 2.93 2.76	2.51 2.30 2.17	2.10 2.11 2.37
23.24	DISCHG 2.53 2.74 2.87 2.94	2.94 2.78 2.53	2.31 2.18 2.11
24.07	DISCHG 1.99 1.61 1.07 0.61	0.33 0.18 0.10	0.05 0.03 0.01

RUNOFF VOLUME ABOVE BASEFLOW = 0.70 WATERSHED INCHES, 226.00 CFS-HRS, 18.68 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 23

OUTPUT HYDROGRAPH= 6

AREA= 24.36 SQ MI INPUT RUNOFF CURVE= 81. TIME OF CONCENTRATION= 3.26 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0836 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
8.19	3654.06	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 24.36 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.24 2.40 9.19

5.81	DISCHG	23.80	50.52	92.87	150.32	222.33	309.01	408.24	520.08	645.91	787.29
6.64	DISCHG	946.39	1123.35	1318.49	1530.53	1753.97	1984.15	2213.61	2432.68	2637.69	2826.53
7.47	DISCHG	2995.91	3144.88	3274.42	3382.00	3469.29	3538.99	3591.22	3628.64	3649.90	3653.22
8.30	DISCHG	3639.10	3608.09	3565.37	3515.12	3457.10	3391.09	3315.86	3230.61	3134.37	3026.94
9.13	DISCHG	2911.03	2789.24	2665.36	2546.51	2435.20	2331.57	2235.64	2147.03	2062.10	1981.00
9.96	DISCHG	1903.83	1830.46	1761.59	1696.64	1635.51	1577.98	1522.17	1468.18	1415.61	1364.29
10.79	DISCHG	1314.50	1266.67	1221.27	1178.32	1137.39	1098.58	1061.46	1026.07	992.57	960.79
11.62	DISCHG	930.84	902.60	875.90	850.93	827.59	805.92	785.86	767.13	749.91	734.29
12.45	DISCHG	720.33	707.89	696.14	684.95	674.17	663.74	653.77	644.11	634.91	626.21
13.28	DISCHG	617.90	609.98	602.22	594.50	586.76	578.96	571.04	562.90	554.55	546.11
14.11	DISCHG	537.63	529.15	520.61	511.83	502.76	493.55	484.37	475.42	466.93	459.06
14.94	DISCHG	451.80	445.06	438.74	432.83	427.21	421.82	416.67	411.76	407.14	402.83
15.77	DISCHG	398.89	395.34	392.15	389.28	386.69	384.36	382.22	380.26	378.47	376.90
16.60	DISCHG	375.60	374.60	373.94	373.56	373.25	372.89	372.43	371.83	371.09	370.19
17.43	DISCHG	369.11	367.87	366.49	364.98	363.36	361.65	359.87	358.04	356.15	354.22
18.26	DISCHG	352.26	350.29	348.31	346.37	344.46	342.59	340.75	338.95	337.17	335.43
19.09	DISCHG	333.75	332.13	330.60	329.18	327.87	326.68	325.59	324.59	323.66	322.80
19.92	DISCHG	322.00	321.25	320.52	319.80	319.07	318.29	317.46	316.54	315.50	314.34
20.75	DISCHG	313.02	311.52	309.79	307.83	305.62	303.13	300.37	297.33	294.04	290.50
21.58	DISCHG	286.73	282.74	278.55	274.18	269.69	265.11	260.50	255.89	251.32	246.82
22.41	DISCHG	242.38	238.06	233.83	229.69	225.63	221.65	217.77	214.01	210.40	207.00
23.24	DISCHG	203.79	200.82	198.08	195.54	193.19	190.98	188.89	186.91	185.04	183.28
24.07	DISCHG	181.59	179.97	178.38	176.78	175.11	173.34	171.46	169.43	167.24	164.86

RUNOFF VOLUME ABOVE BASEFLOW = 1.08 WATERSHED INCHES, 16963.64 CFS-HRS, 1401.88 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 24

OUTPUT HYDROGRAPH= 6
AREA= 26.43 SQ MI INPUT RUNOFF CURVE= 78. TIME OF CONCENTRATION= 3.66 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0841 HOURS

PEAK TIME(HRS) 8.53 PEAK DISCHARGE(CFS) 2893.85 PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 26.43 SQ.MI.								
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.66	3.91
5.81	DISCHG	11.69	26.23	51.25	85.14	128.09	182.46	244.18	312.49	389.43	474.33
6.64	DISCHG	568.68	674.62	791.08	919.24	1059.86	1210.12	1367.96	1530.16	1691.58	1847.13
7.47	DISCHG	1994.86	2134.20	2261.80	2377.46	2482.37	2573.73	2651.93	2718.51	2772.01	2814.93
8.30	DISCHG	2850.12	2875.68	2890.31	2893.41	2883.56	2863.91	2838.53	2808.11	2772.77	2732.49
9.13	DISCHG	2686.36	2633.97	2574.89	2508.19	2434.21	2354.21	2269.76	2183.79	2099.84	2020.09
9.96	DISCHG	1944.91	1874.78	1809.84	1748.26	1688.96	1632.05	1577.21	1524.60	1474.76	1427.28
10.79	DISCHG	1382.30	1340.01	1299.27	1259.67	1221.25	1183.39	1146.06	1109.72	1074.62	1041.24
11.62	DISCHG	1009.79	980.01	952.04	925.79	900.69	876.83	854.38	833.20	813.52	795.33
12.45	DISCHG	778.35	762.60	747.95	734.25	721.43	709.07	696.84	684.83	673.23	662.18
13.28	DISCHG	651.85	641.97	632.38	623.13	614.17	605.45	596.92	588.50	580.10	571.77
14.11	DISCHG	563.46	555.17	546.94	538.72	530.46	522.20	514.01	505.88	497.77	489.61
14.94	DISCHG	481.42	473.37	465.55	458.15	451.28	444.87	438.85	433.18	427.84	422.81
15.77	DISCHG	418.10	413.74	409.79	406.23	402.96	399.96	397.24	394.79	392.56	390.53

16.60	DISCHG	388.65	386.92	385.29	383.74	382.27	380.86	379.48	378.10	376.67	375.17
17.43	DISCHG	373.56	371.81	369.94	367.94	365.82	363.61	361.39	359.25	357.25	355.40
18.26	DISCHG	353.60	351.78	349.95	348.11	346.26	344.43	342.63	340.87	339.15	337.47
19.09	DISCHG	335.82	334.21	332.63	331.08	329.57	328.11	326.71	325.39	324.15	323.02
19.92	DISCHG	321.98	321.01	320.10	319.22	318.36	317.48	316.57	315.62	314.61	313.53
20.75	DISCHG	312.36	311.06	309.62	308.02	306.25	304.30	302.16	299.82	297.27	294.53
21.58	DISCHG	291.58	288.44	285.11	281.60	277.91	274.09	270.17	266.18	262.15	258.12
22.41	DISCHG	254.11	250.12	246.16	242.21	238.31	234.46	230.66	226.92	223.26	219.69
23.24	DISCHG	216.23	212.90	209.73	206.72	203.86	201.15	198.58	196.14	193.81	191.59
24.07	DISCHG	189.46	187.40	185.42	183.48	181.57	179.68	177.76	175.80	173.76	171.59

RUNOFF VOLUME ABOVE BASEFLOW = 0.90 WATERSHED INCHES; 15321.53 CFS-HRS; 1266.17 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 25

OUTPUT HYDROGRAPH= 6

AREA= 24.49 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 3.66 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0841 HOURS

PEAK TIME(HRS) 8.54
PEAK DISCHARGE(CFS) 2477.79
PEAK ELEVATION(FEET) (RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 24.49 SQ.MI.								
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.39	2.82
5.81	DISCHG	9.03	20.85	41.52	69.73	105.66	151.42	203.48	261.10	326.04	397.77
6.64	DISCHG	477.45	567.00	665.53	774.05	893.26	1020.88	1155.28	1293.72	1431.77	1565.09
7.47	DISCHG	1691.92	1811.80	1921.84	2021.79	2112.70	2192.19	2260.50	2318.90	2366.08	2404.14
8.30	DISCHG	2435.68	2459.16	2473.38	2477.72	2470.85	2455.46	2435.10	2410.41	2381.47	2348.32
9.13	DISCHG	2310.17	2266.66	2217.43	2161.67	2099.61	2032.21	1960.79	1887.86	1816.47	1748.51
9.96	DISCHG	1684.36	1624.48	1569.03	1516.45	1465.78	1417.12	1370.19	1325.12	1282.38	1241.64
10.79	DISCHG	1203.03	1166.73	1131.76	1097.77	1064.79	1032.29	1000.22	968.96	938.75	909.99
11.62	DISCHG	882.89	857.21	833.11	810.49	788.87	768.31	748.98	730.75	713.82	698.19
12.45	DISCHG	683.62	670.10	657.52	645.78	634.80	624.22	613.75	603.44	593.47	583.97
13.28	DISCHG	575.08	566.58	558.32	550.36	542.64	535.11	527.75	520.47	513.20	505.97
14.11	DISCHG	498.76	491.54	484.38	477.23	470.03	462.83	455.68	448.57	441.48	434.34
14.94	DISCHG	427.17	420.10	413.25	406.75	400.72	395.10	389.84	384.88	380.20	375.81
15.77	DISCHG	371.68	367.86	364.40	361.29	358.43	355.81	353.44	351.31	349.39	347.62
16.60	DISCHG	346.01	344.52	343.12	341.80	340.54	339.34	338.16	336.98	335.76	334.47
17.43	DISCHG	333.09	331.58	329.97	328.23	326.39	324.47	322.52	320.64	318.87	317.24
18.26	DISCHG	315.65	314.05	312.42	310.79	309.16	307.53	305.94	304.39	302.87	301.38
19.09	DISCHG	299.92	298.49	297.10	295.72	294.39	293.10	291.86	290.69	289.60	288.60
19.92	DISCHG	287.68	286.83	286.02	285.25	284.49	283.72	282.92	282.08	281.19	280.23
20.75	DISCHG	279.19	278.04	276.77	275.35	273.78	272.04	270.14	268.05	265.78	263.34
21.58	DISCHG	260.71	257.91	254.94	251.80	248.52	245.10	241.61	238.04	234.44	230.84
22.41	DISCHG	227.26	223.70	220.16	216.64	213.16	209.72	206.33	202.99	199.71	196.52
23.24	DISCHG	193.43	190.46	187.63	184.94	182.39	179.97	177.67	175.49	173.41	171.43
24.07	DISCHG	169.53	167.69	165.92	164.18	162.48	160.79	159.08	157.33	155.51	153.57

RUNOFF VOLUME ABOVE BASEFLOW = 0.84 WATERSHED INCHES; 13309.11 CFS-HRS; 1099.86 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 26

OUTPUT HYDROGRAPH= 6
AREA= 23.18 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 3.09 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0824 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
8.11	2672.54	(RUNOFF)
16.89	306.04	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT =	0.00 HOURS	TIME INCREMENT =	0.08 HOURS	DRAINAGE AREA =	23.18 SQ.MI.
4.98	DISCHG	0.00	0.00	0.00	0.00	0.70
5.81	DISCHG	12.73	30.28	60.10	101.86	4.05
6.64	DISCHG	711.64	850.34	1005.06	1171.62	2139.88
7.47	DISCHG	2259.64	2363.60	2449.25	2519.90	2660.90
8.30	DISCHG	2637.72	2607.09	2569.91	2526.66	2099.29
9.13	DISCHG	2007.89	1919.64	1837.48	1760.35	1385.28
9.96	DISCHG	1333.73	1285.25	1240.02	1196.34	962.28
10.79	DISCHG	928.99	897.26	867.20	837.91	710.62
11.62	DISCHG	669.27	650.57	633.07	616.39	544.38
12.45	DISCHG	536.34	529.00	522.19	515.67	480.70
13.28	DISCHG	475.64	470.73	465.85	460.80	426.21
14.11	DISCHG	419.51	412.56	405.49	398.39	359.69
14.94	DISCHG	354.38	349.37	344.60	340.03	317.77
15.77	DISCHG	315.12	312.78	310.73	309.02	305.78
16.60	DISCHG	305.81	305.88	305.97	306.03	303.95
17.43	DISCHG	303.04	301.98	300.79	299.50	290.37
18.26	DISCHG	288.74	287.12	285.52	283.94	275.01
19.09	DISCHG	273.72	272.53	271.45	270.47	266.11
19.92	DISCHG	265.59	265.11	264.64	264.15	259.84
20.75	DISCHG	258.70	257.39	255.85	254.06	238.06
21.58	DISCHG	234.62	231.00	227.24	223.35	199.61
22.41	DISCHG	195.87	192.25	188.72	185.28	167.04
23.24	DISCHG	164.64	162.43	160.39	158.53	149.51
24.07	DISCHG	148.28	147.05	145.83	144.56	134.62

RUNOFF VOLUME ABOVE BASEFLOW = 0.84 WATERSHED INCHES, 12599.93 CFS-HRS, 1041.26 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 27

OUTPUT HYDROGRAPH= 6
AREA= 20.05 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 2.63 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0835 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.77	2598.66	(RUNOFF)
16.90	261.62	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT =	0.00 HOURS	TIME INCREMENT =	0.08 HOURS	DRAINAGE AREA =	20.05 SQ.MI.
4.98	DISCHG	0.00	0.00	0.00	0.00	0.79
						4.67

5.81	DISCHG	15.17	37.22	75.58	129.95	200.60	285.68	384.40	498.59	630.74	782.12
6.64	DISCHG	952.87	1140.02	1337.14	1536.33	1727.85	1904.71	2063.66	2201.80	2318.31	2412.64
7.47	DISCHG	2485.98	2540.02	2576.23	2595.78	2596.86	2579.48	2547.36	2506.36	2456.54	2397.34
8.30	DISCHG	2327.40	2245.90	2153.66	2054.31	1952.35	1853.83	1762.81	1679.44	1602.92	1531.42
9.13	DISCHG	1462.88	1397.87	1336.65	1279.45	1225.70	1175.01	1125.86	1078.49	1032.68	988.97
9.96	DISCHG	947.99	910.06	874.56	841.21	809.37	778.91	749.87	722.36	696.32	671.69
10.79	DISCHG	648.40	626.13	604.69	583.82	563.84	545.11	527.77	511.43	496.26	482.25
11.62	DISCHG	469.45	457.93	447.67	438.66	430.90	424.41	419.02	414.63	411.05	407.95
12.45	DISCHG	405.10	402.34	399.71	397.06	394.32	391.59	388.98	386.45	383.99	381.65
13.28	DISCHG	379.02	375.98	372.42	368.35	363.73	358.45	352.54	346.14	339.37	332.39
14.11	DISCHG	325.40	318.59	312.06	305.78	299.80	294.23	289.10	284.44	280.25	276.30
14.94	DISCHG	272.63	269.30	266.34	263.81	261.72	260.03	258.70	257.69	256.96	256.47
15.77	DISCHG	256.21	256.15	256.28	256.55	256.92	257.38	257.89	258.46	259.07	259.71
16.60	DISCHG	260.33	260.88	261.32	261.57	261.61	261.41	260.99	260.34	259.48	258.44
17.43	DISCHG	257.26	255.94	254.50	252.99	251.42	249.81	248.16	246.52	244.89	243.27
18.26	DISCHG	241.67	240.09	238.57	237.12	235.76	234.51	233.39	232.39	231.48	230.67
19.09	DISCHG	229.92	229.24	228.62	228.06	227.54	227.07	226.63	226.23	225.86	225.52
19.92	DISCHG	225.22	224.95	224.67	224.37	224.00	223.55	222.98	222.29	221.43	220.37
20.75	DISCHG	219.06	217.48	215.58	213.36	210.81	207.98	204.87	201.54	198.00	194.28
21.58	DISCHG	190.43	186.49	182.50	178.49	174.51	170.61	166.84	163.21	159.72	156.38
22.41	DISCHG	153.17	150.11	147.21	144.49	141.94	139.60	137.46	135.50	133.73	132.13
23.24	DISCHG	130.69	129.40	128.23	127.14	126.11	125.11	124.14	123.21	122.34	121.52
24.07	DISCHG	120.75	119.98	119.17	118.28	117.26	116.06	114.65	112.99	111.04	108.79

RUNOFF VOLUME ABOVE BASEFLOW = 0.84 WATERSHED INCHES; 10821.00 CFS-HRS; 894.25 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 28

OUTPUT HYDROGRAPH= 6

AREA= 13.13 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 2.63 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0835 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.77	1688.94	(RUNOFF)
16.90	170.72	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 13.13 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.50 2.99
5.81	DISCHG 9.76 24.02 48.88 84.13	129.96 185.17 249.24	323.34 409.11 507.38
6.64	DISCHG 618.24 739.80 867.86 997.32	1121.82 1236.83 1340.22	1430.10 1505.95 1567.39
7.47	DISCHG 1615.19 1650.44 1674.12 1686.98	1687.84 1676.68 1655.93	1629.41 1597.16 1558.81
8.30	DISCHG 1513.48 1460.64 1400.80 1336.31	1270.10 1206.11 1146.98	1092.81 1043.09 996.64
9.13	DISCHG 952.10 909.84 870.04 832.86	797.92 764.96 733.01	702.22 672.43 644.01
9.96	DISCHG 617.35 592.69 569.60 547.91	527.20 507.38 488.49	470.60 453.65 437.63
10.79	DISCHG 422.48 407.99 394.04 380.45	367.45 355.26 343.97	333.34 323.46 314.34
11.62	DISCHG 306.01 298.51 291.84 285.98	280.93 276.71 273.20	270.35 268.03 266.02
12.45	DISCHG 264.17 262.38 260.67 258.95	257.17 255.40 253.70	252.05 250.46 248.93
13.28	DISCHG 247.22 245.24 242.92 240.28	237.26 233.83 229.97	225.80 221.39 216.84
14.11	DISCHG 212.28 207.85 203.59 199.50	195.60 191.97 188.62	185.58 182.85 180.28
14.94	DISCHG 177.88 175.71 173.78 172.13	170.77 169.66 168.80	168.14 167.66 167.34

15.77	DISCHG	167.18	167.14	167.22	167.40	167.65	167.94	168.28	168.65	169.05	169.47
16.60	DISCHG	169.87	170.24	170.52	170.68	170.71	170.58	170.31	169.88	169.32	168.65
17.43	DISCHG	167.88	167.01	166.08	165.09	164.07	163.02	161.95	160.87	159.81	158.75
18.26	DISCHG	157.71	156.68	155.69	154.74	153.86	153.04	152.31	151.66	151.07	150.53
19.09	DISCHG	150.05	149.61	149.20	148.83	148.50	148.19	147.90	147.64	147.40	147.18
19.92	DISCHG	146.99	146.81	146.63	146.43	146.19	145.90	145.53	145.08	144.52	143.82
20.75	DISCHG	142.97	141.94	140.70	139.25	137.59	135.74	133.71	131.54	129.23	126.80
21.58	DISCHG	124.29	121.72	119.11	116.50	113.90	111.36	108.89	106.52	104.25	102.07
22.41	DISCHG	99.97	97.98	96.08	94.30	92.65	91.12	89.72	88.44	87.28	86.24
23.24	DISCHG	85.30	84.46	83.69	82.98	82.31	81.66	81.03	80.42	79.85	79.32
24.07	DISCHG	78.81	78.31	77.79	77.20	76.54	75.75	74.83	73.75	72.48	71.01

RUNOFF VOLUME ABOVE BASEFLOW = 0.83 WATERSHED INCHES, 7043.83 CFS-HRS, 582.10 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 29

OUTPUT HYDROGRAPH= 6

AREA= 10.72 SQ MI INPUT RUNOFF CURVE= 76, TIME OF CONCENTRATION= 1.96 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0817 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.27	1661.03	(RUNOFF)
12.52	190.30	(RUNOFF)
16.70	137.18	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 10.72 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00	0.01 0.37 3.57
5.81	DISCHG 13.63 35.93 75.67 133.59	209.02 302.29 414.36	547.52 700.06 865.13
6.64	DISCHG 1032.41 1189.37 1326.47 1439.76	1528.73 1593.77 1636.28	1657.90 1659.39 1642.30
7.47	DISCHG 1609.74 1565.30 1509.76 1442.05	1363.31 1277.62 1191.79	1112.50 1042.58 980.79
8.30	DISCHG 924.79 873.60 826.87 784.33	744.79 706.72 669.72	634.16 600.77 569.74
9.13	DISCHG 540.75 513.43 487.59 463.25	440.47 419.17 399.35	380.86 363.71 348.25
9.96	DISCHG 334.38 321.90 310.71 300.61	291.29 282.59 274.28	266.17 258.17 250.20
10.79	DISCHG 242.15 234.06 226.01 218.08	210.46 203.46 197.29	192.06 187.81 184.62
11.62	DISCHG 182.51 181.48 181.47 182.30	183.70 185.36 187.03	188.40 189.33 189.88
12.45	DISCHG 190.19 190.29 190.13 189.80	189.34 188.73 187.86	186.63 184.94 182.72
13.28	DISCHG 180.01 176.94 173.65 170.28	166.91 163.60 160.30	156.97 153.61 150.23
14.11	DISCHG 146.88 143.61 140.51 137.66	135.13 133.00 131.29	129.97 129.00 128.32
14.94	DISCHG 127.88 127.65 127.61 127.70	127.89 128.18 128.54	128.96 129.43 129.94
15.77	DISCHG 130.51 131.13 131.79 132.49	133.22 133.96 134.69	135.41 136.07 136.62
16.60	DISCHG 137.00 137.18 137.10 136.78	136.24 135.49 134.58	133.54 132.41 131.21
17.43	DISCHG 129.96 128.69 127.43 126.19	125.00 123.88 122.85	121.93 121.13 120.44
18.26	DISCHG 119.84 119.30 118.82 118.40	118.02 117.68 117.38	117.12 116.89 116.70
19.09	DISCHG 116.53 116.38 116.26 116.15	116.06 115.98 115.92	115.87 115.83 115.80
19.92	DISCHG 115.78 115.77 115.72 115.61	115.41 115.08 114.63	114.00 113.14 112.03
20.75	DISCHG 110.60 108.87 106.86 104.60	102.13 99.51 96.77	93.96 91.13 88.36
21.58	DISCHG 85.70 83.17 80.82 78.64	76.65 74.83 73.20	71.72 70.37 69.11
22.41	DISCHG 67.96 66.94 66.05 65.29	64.65 64.12 63.66	63.24 62.84 62.43
23.24	DISCHG 62.01 61.59 61.19 60.84	60.55 60.34 60.21	60.13 60.08 60.03
24.07	DISCHG 59.90 59.65 59.21 58.56	57.71 56.63 55.30	53.72 51.86 49.72

RUNOFF VOLUME ABOVE BASEFLOW = 0.80 WATERSHED INCHES, 5543.33 CFS-HRS, 458.10 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 30

OUTPUT HYDROGRAPH= 6
AREA= 4.73 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.52 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0844 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.94	866.73	(RUNOFF)
12.23	84.78	(RUNOFF)
16.52	60.45	(RUNOFF)
20.00	50.12	(RUNOFF)
23.96	25.73	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 4.73 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.22 2.48
5.81	DISCHG 10.37 28.40 61.67 111.04	175.89 257.16 354.24 462.28	571.79 669.95
6.64	DISCHG 749.29 807.88 845.74 864.04	865.43 851.39 824.69 787.92	741.78 688.09
7.47	DISCHG 630.98 576.65 529.11 487.88	451.44 418.97 390.27 364.72	341.45 320.38
8.30	DISCHG 301.57 284.78 269.40 254.86	241.02 227.71 214.98 202.84	191.34 180.71
9.13	DISCHG 170.67 161.37 152.86 145.13	138.18 132.02 126.76 122.23	118.33 114.95
9.96	DISCHG 111.99 109.42 107.14 104.95	102.73 100.40 97.87 95.04	91.90 88.49
10.79	DISCHG 84.93 81.37 77.93 74.81	72.05 69.80 68.16 67.26	67.27 68.28
11.62	DISCHG 70.19 72.74 75.62 78.51	81.07 83.02 84.24 84.74	84.67 84.21
12.45	DISCHG 83.55 82.78 81.97 81.17	80.40 79.65 78.83 77.91	76.87 75.67
13.28	DISCHG 74.26 72.66 70.91 69.04	67.04 65.02 63.05 61.19	59.47 57.94
14.11	DISCHG 56.66 55.63 54.79 54.13	53.64 53.33 53.19 53.19	53.31 53.53
14.94	DISCHG 53.83 54.17 54.53 54.90	55.28 55.64 55.98 56.30	56.59 56.89
15.77	DISCHG 57.19 57.52 57.90 58.33	58.80 59.27 59.71 60.09	60.35 60.45
16.60	DISCHG 60.36 60.09 59.65 59.08	58.42 57.69 56.92 56.13	55.37 54.64
17.43	DISCHG 53.96 53.36 52.85 52.42	52.05 51.74 51.47 51.24	51.04 50.86
18.26	DISCHG 50.71 50.59 50.48 50.39	50.31 50.25 50.20 50.16	50.12 50.10
19.09	DISCHG 50.08 50.06 50.06 50.06	50.05 50.05 50.06 50.07	50.08 50.09
19.92	DISCHG 50.11 50.12 50.10 50.02	49.86 49.59 49.20 48.64	47.88 46.92
20.75	DISCHG 45.78 44.50 43.09 41.59	40.03 38.44 36.90 35.43	34.07 32.88
21.58	DISCHG 31.88 31.07 30.40 29.85	29.35 28.90 28.47 28.05	27.65 27.29
22.41	DISCHG 26.98 26.73 26.55 26.43	26.35 26.31 26.26 26.20	26.11 26.00
23.24	DISCHG 25.87 25.74 25.63 25.56	25.53 25.55 25.59 25.66	25.71 25.72
24.07	DISCHG 25.66 25.49 25.16 24.67	24.01 23.15 22.06 20.77	19.34 17.81

RUNOFF VOLUME ABOVE BASEFLOW = 0.78 WATERSHED INCHES, 2382.24 CFS-HRS, 196.87 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 31

OUTPUT HYDROGRAPH= 6
AREA= 1.69 SQ MI INPUT RUNOFF CURVE= 74. TIME OF CONCENTRATION= 0.93 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0884 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.49	491.37	(RUNOFF)
11.85	36.43	(RUNOFF)
12.77	29.33	(RUNOFF)
16.26	23.16	(RUNOFF)
19.97	18.42	(RUNOFF)
21.77	9.98	(RUNOFF)
23.82	9.77	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 1.69 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.61 4.62
5.81	DISCHG 16.90 44.17 93.07 164.59	251.92 342.68 420.62	471.20 490.60 483.85
6.64	DISCHG 455.82 413.49 364.99 316.38	274.61 241.21 213.69	190.25 169.72 151.55
7.47	DISCHG 135.82 122.30 110.76 101.16	93.44 87.57 83.32	80.23 77.64 75.12
8.30	DISCHG 72.25 68.82 64.89 60.66	56.35 52.17 48.34	45.04 42.40 40.44
9.13	DISCHG 39.00 37.86 36.96 36.24	35.67 35.23 34.89	34.62 34.42 34.26
9.96	DISCHG 34.14 34.01 33.76 33.31	32.55 31.42 29.95	28.30 26.60 24.98
10.79	DISCHG 23.50 22.21 21.17 20.47	20.22 20.55 21.64	23.56 26.20 29.20
11.62	DISCHG 32.10 34.49 36.02 36.41	35.57 33.94 32.01	30.17 28.75 27.92
12.45	DISCHG 27.75 28.09 28.65 29.13	29.32 29.05 28.31	27.20 25.90 24.55
13.28	DISCHG 23.29 22.17 21.25 20.53	19.96 19.52 19.15	18.86 18.62 18.44
14.11	DISCHG 18.32 18.27 18.31 18.46	18.70 19.00 19.33	19.66 19.97 20.24
14.94	DISCHG 20.47 20.65 20.79 20.91	21.01 21.09 21.16	21.23 21.31 21.43
15.77	DISCHG 21.60 21.85 22.18 22.54	22.86 23.09 23.15	23.03 22.71 22.24
16.60	DISCHG 21.69 21.13 20.59 20.10	19.70 19.38 19.13	18.93 18.78 18.66
17.43	DISCHG 18.56 18.48 18.42 18.38	18.34 18.31 18.30	18.28 18.27 18.27
18.26	DISCHG 18.27 18.27 18.27 18.27	18.27 18.28 18.28	18.28 18.29 18.30
19.09	DISCHG 18.32 18.33 18.34 18.35	18.36 18.37 18.38	18.39 18.39 18.40
19.92	DISCHG 18.41 18.42 18.37 18.25	18.00 17.59 17.03	16.35 15.61 14.82
20.75	DISCHG 14.02 13.21 12.42 11.67	11.01 10.46 10.04	9.78 9.68 9.71
21.58	DISCHG 9.81 9.91 9.97 9.95	9.83 9.63 9.38	9.16 8.99 8.93
22.41	DISCHG 8.99 9.16 9.37 9.57	9.71 9.75 9.67	9.51 9.29 9.09
23.24	DISCHG 8.95 8.90 8.97 9.14	9.35 9.57 9.72	9.77 9.71 9.54
24.07	DISCHG 9.27 8.89 8.40 7.77	7.01 6.16 5.29	4.44 3.66 2.96

RUNOFF VOLUME ABOVE BASEFLOW = 0.82 WATERSHED INCHES; 896.69 CFS-HRS; 74.10 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 32
 OUTPUT HYDROGRAPH= 6
 AREA= 0.78 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 0.80 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0889 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.40	262.18	(RUNOFF)
11.77	17.88	(RUNOFF)
12.73	13.95	(RUNOFF)
16.20	10.97	(RUNOFF)
19.97	8.61	(RUNOFF)
23.75	4.64	(RUNOFF)

TIME(HRS)	DISCHG	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 0.78 SQ.MI.
4.98	DISCHG	0.00 0.00	0.00 0.00	0.00 0.57 3.63
5.81	DISCHG	12.63 32.25	66.49 114.49	169.00 219.25 252.14 262.16 253.94 232.98
6.64	DISCHG	205.13 175.53	148.70 126.99	109.92 96.01 84.36 74.49 66.10 58.89
7.47	DISCHG	52.69 47.51	43.32 40.04	37.65 36.07 35.11 34.45 33.80 32.87
8.30	DISCHG	31.43 29.48	27.27 25.08	23.09 21.39 19.99 18.97 18.19 17.60
9.13	DISCHG	17.14 16.79	16.52 16.32	16.16 16.05 15.97 15.92 15.88 15.85
9.96	DISCHG	15.83 15.79	15.65 15.34	14.81 14.07 13.21 12.32 11.47 10.71
10.79	DISCHG	10.09 9.60	9.25 9.04	9.08 9.48 10.37 11.80 13.51 15.23
11.62	DISCHG	16.69 17.63	17.88 17.41	16.41 15.19 14.01 13.08 12.54 12.49
12.45	DISCHG	12.80 13.27	13.70 13.94	13.88 13.49 12.86 12.14 11.41 10.73
13.28	DISCHG	10.16 9.71	9.38 9.12	8.92 8.76 8.64 8.55 8.48 8.44
14.11	DISCHG	8.42 8.45	8.54 8.67	8.84 9.02 9.20 9.36 9.50 9.61
14.94	DISCHG	9.69 9.76	9.81 9.85	9.89 9.92 9.94 9.97 10.01 10.08
15.77	DISCHG	10.19 10.35	10.54 10.73	10.89 10.97 10.94 10.76 10.48 10.16
16.60	DISCHG	9.84 9.54	9.29 9.10	8.95 8.84 8.76 8.69 8.64 8.60
17.43	DISCHG	8.58 8.56	8.54 8.53	8.52 8.52 8.52 8.51 8.51 8.52
18.26	DISCHG	8.52 8.52	8.52 8.53	8.53 8.53 8.54 8.54 8.55 8.55
19.09	DISCHG	8.56 8.56	8.56 8.57	8.57 8.58 8.58 8.59 8.59 8.60
19.92	DISCHG	8.60 8.60	8.58 8.49	8.31 8.03 7.67 7.27 6.87 6.46
20.75	DISCHG	6.07 5.69	5.33 5.00	4.72 4.50 4.36 4.33 4.38 4.48
21.58	DISCHG	4.58 4.65	4.67 4.62	4.51 4.37 4.23 4.12 4.08 4.10
22.41	DISCHG	4.20 4.34	4.48 4.58	4.63 4.59 4.49 4.36 4.22 4.12
23.24	DISCHG	4.08 4.11	4.21 4.34	4.48 4.59 4.64 4.61 4.51 4.38
24.07	DISCHG	4.20 3.97	3.68 3.31	2.88 2.42 1.97 1.56 1.21 0.93

RUNOFF VOLUME ABOVE BASEFLOW = 0.84 WATERSHED INCHES, 423.23 CFS-HRS, 34.98 ACRE-Feet; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 33
 OUTPUT HYDROGRAPH= 6
 AREA= 1.49 SQ MI INPUT RUNOFF CURVE= 75. TIME OF CONCENTRATION= 1.15 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0952 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.66	332.15	(RUNOFF)
11.99	28.42	(RUNOFF)
12.83	24.38	(RUNOFF)
16.36	19.24	(RUNOFF)
19.98	15.59	(RUNOFF)
23.92	8.12	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 1.49 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	1.55
5.81	DISCHG	6.26	17.27	37.84	69.65	111.92	162.25	215.62	264.10	300.87	323.03
6.64	DISCHG	331.70	329.31	317.45	298.15	273.76	246.50	219.70	196.33	176.80	160.04
7.47	DISCHG	145.27	132.02	120.08	109.62	100.70	93.17	86.86	81.60	77.18	73.40
8.30	DISCHG	70.06	66.85	63.54	60.11	56.60	53.10	49.74	46.59	43.73	41.20
9.13	DISCHG	39.02	37.19	35.66	34.34	33.20	32.21	31.39	30.73	30.27	29.94
9.96	DISCHG	29.66	29.41	29.14	28.80	28.34	27.71	26.89	25.90	24.79	23.62
10.79	DISCHG	22.45	21.33	20.28	19.38	18.74	18.44	18.56	19.17	20.29	21.83
11.62	DISCHG	23.57	25.29	26.78	27.86	28.37	28.33	27.85	27.07	26.17	25.32
12.45	DISCHG	24.71	24.35	24.22	24.25	24.34	24.36	24.18	23.78	23.18	22.42
13.28	DISCHG	21.56	20.68	19.83	19.04	18.34	17.76	17.29	16.90	16.59	16.33
14.11	DISCHG	16.12	15.97	15.88	15.86	15.90	16.01	16.15	16.33	16.52	16.72
14.94	DISCHG	16.91	17.08	17.24	17.38	17.50	17.60	17.69	17.76	17.84	17.93
15.77	DISCHG	18.04	18.18	18.37	18.59	18.82	19.02	19.17	19.24	19.19	19.03
16.60	DISCHG	18.79	18.48	18.13	17.77	17.42	17.09	16.80	16.55	16.35	16.19
17.43	DISCHG	16.06	15.95	15.86	15.78	15.72	15.67	15.63	15.59	15.57	15.55
18.26	DISCHG	15.53	15.52	15.51	15.51	15.50	15.50	15.50	15.50	15.51	15.51
19.09	DISCHG	15.52	15.52	15.53	15.53	15.54	15.54	15.55	15.56	15.57	15.58
19.92	DISCHG	15.59	15.59	15.58	15.52	15.41	15.23	14.95	14.58	14.12	13.61
20.75	DISCHG	13.05	12.46	11.85	11.24	10.65	10.11	9.64	9.27	8.99	8.80
21.58	DISCHG	8.69	8.63	8.60	8.57	8.51	8.41	8.29	8.15	8.01	7.90
22.41	DISCHG	7.84	7.84	7.89	7.97	8.05	8.12	8.14	8.11	8.04	7.94
23.24	DISCHG	7.84	7.76	7.73	7.75	7.81	7.90	8.00	8.08	8.11	8.09
24.07	DISCHG	8.00	7.83	7.58	7.23	6.79	6.27	5.68	5.04	4.44	3.85

RUNOFF VOLUME ABOVE BASEFLOW = 0.76 WATERSHED INCHES, 735.09 CFS-HRS, 60.75 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 34
 OUTPUT HYDROGRAPH= 6
 AREA= 6.31 SQ MI INPUT RUNOFF CURVE= 77. TIME OF CONCENTRATION= 2.50 HOURS
 INTERNAL HYDROGRAPH TIME INCREMENT= 0.0833 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.66	872.40	(RUNOFF)
16.87	83.27	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS				TIME INCREMENT = 0.08 HOURS				DRAINAGE AREA = 6.31 SQ.MI.		
4.98	DISCHG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	1.68
5.81	DISCHG	5.50	13.60	27.94	47.95	74.37	105.73	142.45	184.99	234.80	291.57
6.64	DISCHG	355.71	424.35	495.32	564.50	628.29	685.90	735.42	777.27	810.47	836.30
7.47	DISCHG	854.53	866.47	872.01	870.98	862.80	850.05	834.10	814.91	792.00	765.01
8.30	DISCHG	733.52	698.91	662.56	626.91	594.26	564.46	537.59	512.58	488.71	466.08
9.13	DISCHG	444.86	424.98	406.38	388.67	371.51	354.89	338.90	323.76	309.71	296.68
9.96	DISCHG	284.56	273.16	262.29	251.96	242.19	232.98	224.32	216.17	208.52	201.26
10.79	DISCHG	194.26	187.56	181.20	175.12	169.25	163.65	158.38	153.50	149.03	144.98
11.62	DISCHG	141.33	138.09	135.23	132.79	130.86	129.36	128.19	127.31	126.63	126.08
12.45	DISCHG	125.48	124.85	124.20	123.58	123.02	122.48	121.90	121.25	120.56	119.77

13.28	DISCHG	118.83	117.72	116.41	114.86	113.06	111.04	108.86	106.56	104.23	101.92
14.11	DISCHG	99.75	97.74	95.91	94.25	92.66	91.14	89.69	88.30	86.99	85.78
14.94	DISCHG	84.70	83.76	82.98	82.35	81.87	81.50	81.23	81.05	80.93	80.87
15.77	DISCHG	80.89	80.96	81.07	81.22	81.41	81.63	81.87	82.13	82.39	82.65
16.60	DISCHG	82.88	83.07	83.20	83.26	83.24	83.13	82.94	82.67	82.34	81.95
17.43	DISCHG	81.51	81.03	80.53	80.00	79.45	78.90	78.34	77.79	77.24	76.70
18.26	DISCHG	76.18	75.67	75.20	74.75	74.36	74.00	73.68	73.39	73.13	72.90
19.09	DISCHG	72.68	72.49	72.31	72.15	72.00	71.86	71.74	71.63	71.54	71.46
19.92	DISCHG	71.38	71.32	71.24	71.16	71.04	70.90	70.71	70.48	70.18	69.82
20.75	DISCHG	69.36	68.80	68.12	67.32	66.41	65.39	64.30	63.12	61.89	60.60
21.58	DISCHG	59.28	57.94	56.60	55.26	53.96	52.71	51.50	50.35	49.25	48.20
22.41	DISCHG	47.20	46.27	45.40	44.59	43.86	43.19	42.57	42.02	41.52	41.09
23.24	DISCHG	40.70	40.34	40.01	39.70	39.39	39.09	38.80	38.53	38.29	38.07
24.07	DISCHG	37.87	37.67	37.45	37.19	36.87	36.47	35.98	35.40	34.71	33.91

RUNOFF VOLUME ABOVE BASEFLOW = 0.85 WATERSHED INCHES, 3471.29 CFS-HRS, 286.87 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 35

OUTPUT HYDROGRAPH= 6

AREA= 5.46 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.75 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0833 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.11	936.41	(RUNOFF)
12.40	98.11	(RUNOFF)
16.61	70.69	(RUNOFF)
19.98	59.14	(RUNOFF)
23.90	30.47	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 5.46 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.32 2.62
5.81	DISCHG 9.78 25.42 53.66 94.80	148.38 214.99 295.95	389.99 493.14 598.26
6.64	DISCHG 694.73 776.52 840.74 887.45	918.23 933.89 935.47	923.96 901.69 871.09
7.47	DISCHG 832.42 785.89 733.28 678.30	626.73 581.33 542.08	507.19 475.58 447.15
8.30	DISCHG 421.76 398.41 376.37 355.55	336.09 317.92 300.86	284.69 269.34 254.82
9.13	DISCHG 241.14 228.32 216.26 205.00	194.71 185.33 176.74	169.00 162.16 156.15
9.96	DISCHG 150.88 146.16 141.85 137.91	134.22 130.70 127.24	123.73 120.14 116.48
10.79	DISCHG 112.73 108.87 104.90 100.96	97.21 93.78 90.80	88.39 86.68 85.76
11.62	DISCHG 85.68 86.46 88.00 90.06	92.22 94.25 95.91	97.10 97.81 98.09
12.45	DISCHG 98.05 97.82 97.49 97.10	96.59 95.93 95.10	94.07 92.83 91.38
13.28	DISCHG 89.79 88.13 86.42 84.67	82.85 80.95 79.01	77.03 75.04 73.12
14.11	DISCHG 71.31 69.68 68.25 67.07	66.13 65.39 64.84	64.47 64.27 64.19
14.94	DISCHG 64.23 64.36 64.55 64.79	65.08 65.39 65.70	66.01 66.33 66.67
15.77	DISCHG 67.02 67.38 67.77 68.19	68.64 69.11 69.56	69.99 70.34 70.59
16.60	DISCHG 70.69 70.63 70.40 70.02	69.52 68.93 68.27	67.57 66.83 66.08
17.43	DISCHG 65.33 64.60 63.91 63.26	62.68 62.17 61.74	61.38 61.06 60.78
18.26	DISCHG 60.54 60.33 60.14 59.97	59.97 59.83 59.71	59.60 59.51 59.43
19.09	DISCHG 59.31 59.26 59.23 59.19	59.17 59.16 59.14	59.14 59.13 59.13
19.92	DISCHG 59.14 59.14 59.12 59.05	58.92 58.71 58.40	57.96 57.37 56.58

20.75	DISCHG	55.60	54.45	53.15	51.72	50.19	48.59	46.96	45.33	43.76	42.28
21.58	DISCHG	40.92	39.68	38.59	37.65	36.83	36.10	35.43	34.80	34.22	33.69
22.41	DISCHG	33.21	32.81	32.47	32.21	32.01	31.84	31.69	31.53	31.37	31.19
23.24	DISCHG	31.01	30.83	30.67	30.56	30.48	30.45	30.45	30.46	30.47	30.46
24.07	DISCHG	30.39	30.22	29.94	29.53	28.98	28.28	27.41	26.35	25.10	23.69

RUNOFF VOLUME ABOVE BASEFLOW = 0.81 WATERSHED INCHES, 2848.72 CFS-HRS, 235.42 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 36

OUTPUT HYDROGRAPH= 6

AREA= 2.15 SQ MI INPUT RUNOFF CURVE= 74. TIME OF CONCENTRATION= 1.29 HOURS

INTERNAL HYDROGRAPH TIME INCREMENT= 0.0860 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
6.78	401.23	(RUNOFF)
12.07	37.96	(RUNOFF)
16.42	26.44	(RUNOFF)
19.99	21.66	(RUNOFF)
23.96	11.20	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 2.15 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.11 1.24
5.81	DISCHG 5.49 15.73 34.96 64.80	105.24 155.55 213.09	271.65 323.25 362.05
6.64	DISCHG 387.17 399.40 400.61 392.68	376.18 353.75 326.01	295.31 265.90 241.06
7.47	DISCHG 220.13 201.53 184.91 170.02	156.60 144.72 134.64	126.12 118.73 112.21
8.30	DISCHG 106.40 101.08 95.98 90.97	86.04 81.18 76.46	71.93 67.63 63.67
9.13	DISCHG 60.10 56.89 54.14 51.85	49.97 48.41 47.05	45.86 44.78 43.81
9.96	DISCHG 42.95 42.18 41.48 40.82	40.16 39.40 38.43	37.27 35.94 34.50
10.79	DISCHG 33.02 31.53 30.09 28.78	27.71 26.98 26.67	26.90 27.74 29.16
11.62	DISCHG 30.95 32.89 34.76 36.34	37.44 37.92 37.88	37.48 36.83 36.04
12.45	DISCHG 35.26 34.68 34.27 33.99	33.81 33.69 33.50	33.12 32.55 31.82
13.28	DISCHG 30.93 29.94 28.88 27.83	26.83 25.91 25.10	24.42 23.86 23.40
14.11	DISCHG 23.02 22.73 22.51 22.38	22.32 22.36 22.46	22.62 22.81 23.03
14.94	DISCHG 23.26 23.48 23.70 23.89	24.07 24.22 24.35	24.46 24.58 24.71
15.77	DISCHG 24.85 25.03 25.25 25.50	25.78 26.03 26.25	26.39 26.44 26.35
16.60	DISCHG 26.15 25.86 25.51 25.11	24.68 24.25 23.85	23.47 23.14 22.86
17.43	DISCHG 22.64 22.45 22.29 22.16	22.05 21.95 21.87	21.81 21.75 21.71
18.26	DISCHG 21.67 21.64 21.62 21.60	21.59 21.58 21.57	21.57 21.57 21.57
19.09	DISCHG 21.57 21.58 21.58 21.59	21.60 21.60 21.61	21.62 21.63 21.64
19.92	DISCHG 21.65 21.66 21.64 21.59	21.48 21.30 21.02	20.64 20.15 19.56
20.75	DISCHG 18.90 18.18 17.43 16.64	15.85 15.09 14.39	13.78 13.29 12.92
21.58	DISCHG 12.65 12.45 12.31 12.19	12.09 11.95 11.79	11.62 11.46 11.31
22.41	DISCHG 11.19 11.12 11.11 11.14	11.18 11.23 11.27	11.26 11.21 11.14
23.24	DISCHG 11.05 10.96 10.90 10.88	10.91 10.97 11.05	11.13 11.18 11.20
24.07	DISCHG 11.14 10.99 10.75 10.40	9.94 9.36 8.67	7.92 7.13 6.35

RUNOFF VOLUME ABOVE BASEFLOW = 0.72 WATERSHED INCHES, 993.52 CFS-HRS, 82.10 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 37

OUTPUT HYDROGRAPH= 6
AREA= 5.99 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.96 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0817 HOURS

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
7.27	949.68	(RUNOFF)
12.52	107.52	(RUNOFF)
16.70	77.45	(RUNOFF)

TIME(HRS)	FIRST HYDROGRAPH POINT = 0.00 HOURS	TIME INCREMENT = 0.08 HOURS	DRAINAGE AREA = 5.99 SQ.MI.
4.98	DISCHG 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.24 2.16		
5.81	DISCHG 8.06 21.01 43.96 77.31 120.69 174.30 238.69 315.13 402.56 497.03		
6.64	DISCHG 592.62 682.20 760.34 824.81 875.35 912.19 936.13 948.10 948.59 938.49		
7.47	DISCHG 919.55 893.84 861.77 822.76 777.50 728.36 679.21 633.84 593.83 558.48		
8.30	DISCHG 526.44 497.17 470.45 446.13 423.52 401.76 380.63 360.33 341.28 323.59		
9.13	DISCHG 307.05 291.48 276.75 262.89 249.91 237.78 226.49 215.97 206.21 197.41		
9.96	DISCHG 189.51 182.41 176.04 170.29 164.99 160.04 155.31 150.69 146.15 141.62		
10.79	DISCHG 137.05 132.46 127.89 123.39 119.07 115.10 111.60 108.63 106.22 104.41		
11.62	DISCHG 103.21 102.62 102.60 103.06 103.84 104.77 105.70 106.46 106.98 107.29		
12.45	DISCHG 107.46 107.52 107.42 107.23 106.97 106.62 106.13 105.43 104.48 103.22		
13.28	DISCHG 101.69 99.95 98.09 96.19 94.28 92.41 90.54 88.66 86.76 84.85		
14.11	DISCHG 82.96 81.11 79.36 77.75 76.32 75.12 74.14 73.40 72.85 72.46		
14.94	DISCHG 72.22 72.09 72.06 72.11 72.22 72.38 72.59 72.82 73.08 73.37		
15.77	DISCHG 73.69 74.04 74.41 74.81 75.22 75.63 76.05 76.45 76.82 77.13		
16.60	DISCHG 77.35 77.44 77.40 77.22 76.91 76.49 75.97 75.38 74.74 74.07		
17.43	DISCHG 73.36 72.64 71.93 71.23 70.56 69.92 69.34 68.82 68.37 67.98		
18.26	DISCHG 67.64 67.33 67.06 66.82 66.61 66.42 66.25 66.10 65.97 65.86		
19.09	DISCHG 65.77 65.68 65.61 65.55 65.50 65.45 65.42 65.39 65.37 65.35		
19.92	DISCHG 65.34 65.33 65.30 65.24 65.12 64.94 64.68 64.32 63.84 63.21		
20.75	DISCHG 62.41 61.43 60.29 59.02 57.63 56.15 54.60 53.01 51.42 49.86		
21.58	DISCHG 48.35 46.93 45.60 44.37 43.24 42.22 41.30 40.47 39.70 38.99		
22.41	DISCHG 38.34 37.76 37.26 36.83 36.48 36.17 35.91 35.68 35.45 35.22		
23.24	DISCHG 34.98 34.74 34.52 34.32 34.16 34.04 33.96 33.92 33.89 33.86		
24.07	DISCHG 33.79 33.65 33.40 33.04 32.55 31.94 31.20 30.30 29.25 28.04		

RUNOFF VOLUME ABOVE BASEFLOW = 0.82 WATERSHED INCHES, 3152.81 CFS-HRS, 260.55 ACRE-FEET; BASEFLOW = 0.00 CFS

OPERATION RUNOFF STRUCTURE 38

OUTPUT HYDROGRAPH= 6
AREA= 5.45 SQ MI INPUT RUNOFF CURVE= 76. TIME OF CONCENTRATION= 1.41 HOURS
INTERNAL HYDROGRAPH TIME INCREMENT= 0.0855 HOURS