

AHYMO-N0V13C-Output

AHYMO PROGRAM (AHYMO_97) - - Version: 1997.02c
RUN DATE (MON/DAY/YR) = 01/16/2014
START TIME (HR:MIN:SEC) = 08:55:54 USER NO.=
AHYMO-I-9702a01000K21-AH
INPUT FILE = C:\Projects\LONGFO~1\REVISE~3\TRAILS~4.TXT

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* TRAILS UNIT III DRAINAGE MASTER PLAN
* HYDROLOGIC MODEL--FULLY DEVELOPED CONDITIONS
* 25 NOVEMBER 2013
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* HYDROLOGIC MODEL FOR OFFSITE AND ONSITE BASINS
* 100-YEAR, 24-HOUR STORM:
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* PRECIPITATION:
* P60 = 1.84"
* P360 = 2.20"
* P1440 = 2.66"
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START TIME=0.0 HR PUNCH CODE=0
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RAINFALL TYPE=2 RAIN QUARTER=0.0 IN

RAIN ONE=1.84 IN RAIN SIX=2.20 IN
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RAIN DAY=2.66 IN DT=0.10 HRS

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 -
PEAK AT 1.40 HR.

DT =	.100000 HOURS	END TIME =	24.000000 HOURS
.0000	.0060	.0124	.0193
.0532	.0640	.0764	.0908
.9796	1.3314	1.5028	1.6393
1.9485	1.9639	1.9776	1.9899
2.0306	2.0393	2.0475	2.0553
2.0832	2.0895	2.0956	2.1015
2.1234	2.1285	2.1335	2.1383
2.1566	2.1610	2.1652	2.1694
2.1852	2.1890	2.1927	2.1964
2.2117	2.2155	2.2193	2.2231
2.2379	2.2416	2.2452	2.2488
2.2630	2.2665	2.2700	2.2734
2.2870	2.2903	2.2937	2.2970
2.3100	2.3132	2.3164	2.3196
2.3321	2.3352	2.3383	2.3413
2.3534	2.3563	2.3593	2.3622
2.3739	2.3767	2.3796	2.3824
2.3937	2.3965	2.3992	2.4020
2.4128	2.4155	2.4182	2.4208
2.4314	2.4340	2.4365	2.4391
2.4493	2.4518	2.4543	2.4568
2.4667	2.4692	2.4716	2.4740
2.4837	2.4860	2.4884	2.4908
2.5001	2.5024	2.5047	2.5070
2.5161	2.5184	2.5206	2.5229
2.5317	2.5339	2.5361	2.5383
2.5469	2.5490	2.5512	2.5533
2.5617	2.5638	2.5659	2.5680
2.5762	2.5782	2.5803	2.5823
2.5903	2.5923	2.5943	2.5963
2.6041	2.6061	2.6080	2.6099
2.6176	2.6195	2.6214	2.6233
2.6308	2.6327	2.6346	2.6364
2.6438	2.6456	2.6474	2.6492
2.6564	2.6582	2.6600	

SEDIMENT BULK CODE=1 FACTOR=1.0

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*S*****

*S***** COMPUTE ONSITE BASINS FROM THE TRAILS

*S*****

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COMPUTE NM HYD ID=50 HYD NO=OFFSITE1 DA=.1998 SQ MI

%A=100 %B=0 %C=0 %D=0

TP=-.66 HR RAIN=-1

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K = .733385HR TP = .660000HR K/TP RATIO = 1.111190 SHAPE
 CONSTANT, N = 3.182443
 UNIT PEAK = 89.720 CFS UNIT VOLUME = .9999 B = 296.37
 P60 = 1.8400
 AREA = .199800 SQ MI IA = .65000 INCHES INF = 1.67000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=50 CODE=10

HYDROGRAPH FROM AREA OFFSITE1

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
	.000	.0		4.000	3.4	8.000
12.000	.1	.0	16.000	.0	2.2	9.000
13.000	.1	.0	17.000	.0	1.4	10.000
14.000	2.000	37.0	18.000	.0	.9	11.000
15.000	3.000	12.5	7.000			

RUNOFF VOLUME = .41534 INCHES = 4.4258 ACRE-Feet
 PEAK DISCHARGE RATE = 37.00 CFS AT 2.000 HOURS BASIN AREA =
 .1998 SQ. MI.

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ROUTE RESERVOIR ID=53 HYD=OFF.POND.1 INFLOW ID=50 CODE=5

OUTFLOW	STORAGE	DEPTH
0	0	0
3.85	0.037	1
5.44	0.218	2
6.66	0.610	3
7.69	1.150	4
8.60	1.759	5
9.42	2.439	6

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TIME INFLOW ELEV VOLUME OUTFLOW
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(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
.00	.00	.00	.000	.00
.50	.00	.00	.000	.00
1.00	.00	.00	.000	.00
1.50	8.58	.90	.033	3.46
2.00	37.00	3.55	.909	7.23
2.50	24.72	5.21	1.905	8.78
3.00	12.51	5.76	2.273	9.22
3.50	6.32	5.75	2.267	9.21
4.00	3.43	5.47	2.081	8.99
4.50	2.73	5.12	1.842	8.70
5.00	2.18	4.72	1.591	8.35
5.50	1.74	4.30	1.334	7.97
6.00	1.38	3.87	1.078	7.55
6.50	1.10	3.40	.827	7.07
7.00	.88	2.94	.585	6.58
7.50	.70	2.36	.360	5.88
8.00	.56	1.67	.158	4.92
8.50	.44	.43	.016	1.65
9.00	.35	.10	.004	.39
9.50	.28	.08	.003	.30
10.00	.22	.06	.002	.24
10.50	.18	.05	.002	.19
11.00	.14	.04	.001	.15
11.50	.11	.03	.001	.12
12.00	.09	.02	.001	.10
12.50	.07	.02	.001	.08
13.00	.06	.02	.001	.06
13.50	.05	.01	.000	.05
14.00	.04	.01	.000	.04
14.50	.03	.01	.000	.03
15.00	.02	.01	.000	.02
15.50	.02	.01	.000	.02
16.00	.01	.00	.000	.02
16.50	.01	.00	.000	.01
17.00	.01	.00	.000	.01
17.50	.01	.00	.000	.01
18.00	.01	.00	.000	.01
18.50	.00	.00	.000	.00

PEAK DISCHARGE = 9.254 CFS - PEAK OCCURS AT HOUR 3.20
 MAXIMUM WATER SURFACE ELEVATION = 5.798
 MAXIMUM STORAGE = 2.3016 AC-FT INCREMENTAL TIME= .100000HRS

PRINT HYD ID=53 CODE=10

HYDROGRAPH FROM AREA OFF.POND.1

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS			
12.000	.000	.0	16.000	4.000	9.0	8.000	4.9
	.1			.0		9.000	.4
13.000	1.000	.0	17.000	5.000	8.3		
	.1			.0		10.000	.2
14.000	2.000	7.2	18.000	6.000	7.6		
	.0			.0		11.000	.2
15.000	3.000	9.2	19.000	7.000	6.6		
	.0			.0			

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RUNOFF VOLUME = .41533 INCHES = 4.4258 ACRE-FEET
 PEAK DISCHARGE RATE = 9.25 CFS AT 3.200 HOURS BASIN AREA =
 .1998 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.0176

DIA=2.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE ELEV	FLOW AREA SQ FT	1.0 FLOW RATE CFS	
.00	.00	.00	.00	FT
.89	.10	.06	.16	
1.22	.21	.17	.68	
1.45	.31	.31	1.59	
1.62	.42	.47	2.86	
1.76	.52	.65	4.46	
1.85	.63	.84	6.37	
1.93	.73	1.04	8.53	
1.97	.83	1.24	10.90	
2.00	.94	1.45	13.44	
2.00	1.04	1.66	16.09	
2.00	1.15	1.86	18.78	
2.00	1.25	2.07	21.46	
2.00	1.35	2.27	24.05	
2.00	1.46	2.46	26.48	
2.00	1.56	2.63	28.65	
2.00	1.67	2.80	30.46	
2.00	1.77	2.94	31.75	
2.00	1.88	3.06	32.28	
2.00	2.00	3.14	32.28	

ROUTE MCUNGE ID=54 HYD=RTE.OFF.POND INFLOW ID=53

DT=0.0 L=740 NS=0 SLOPE=0.0176

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MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 191

DT= .100000

WIDTH MED= 1.76

TABLE PTS= 19

QMED= 4.63

NREACH= 1

CKMED= 10.1076

DX= 740.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.111	.0	2.06	1.19	1.000	.000	1.000
.338	.10	.1	.2	.082	.9	4.15	2.52	2.018	.003	.998
.473	.21	.2	.7	.052	1.2	5.72	3.93	2.785	.008	.996
.559	.31	.3	1.6	.041	1.5	7.25	5.06	3.526	.012	.995
.613	.42	.5	2.9	.034	1.6	8.53	6.02	4.151	.016	.994
.649	.52	.7	4.5	.030	1.8	9.63	6.85	4.683	.020	.993
.675	.63	.8	6.4	.027	1.9	10.55	7.58	5.135	.025	.992
.694	.73	1.0	8.5	.025	1.9	11.34	8.23	5.515	.030	.991
.709	.83	1.2	10.9	.023	2.0	11.98	8.79	5.827	.035	.990
.719	.94	1.4	13.4	.022	2.0	12.48	9.29	6.071	.041	.988
.726	1.04	1.7	16.1	.021	2.0	12.83	9.72	6.241	.048	.987
.727	1.15	1.9	18.8	.020	2.0	12.91	10.08	6.281	.056	.985
.723	1.25	2.1	21.5	.020	2.0	12.67	10.38	6.164	.065	.982
.712	1.35	2.3	24.1	.019	2.0	12.07	10.62	5.872	.076	.978
.691	1.46	2.5	26.5	.019	2.0	11.06	10.78	5.382	.092	.972
.653	1.56	2.6	28.7	.019	2.0	9.57	10.87	4.657	.115	.960
.582	1.67	2.8	30.5	.019	2.0	7.45	10.88	3.626	.157	.934
.412	1.77	2.9	31.8	.019	2.0	4.37	10.79	2.124	.279	.836
.262	1.88	3.1	32.3	.019	2.0	2.49	10.55	1.210	.498	.632
	1.06	32.0	.646	.265	.089					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 4 TIMES.

AVERAGE NUMBER ITERATIONS = 1.1314

Equations solved using the Ponce correction to C2

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PRINT HYD

ID=54 CODE=0

HYDROGRAPH FROM AREA RTE.OFF.POND

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
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	HRS	CFS		HRS	CFS	
HRS	CFS		HRS	CFS		HRS
	.000	.0		4.000	9.0	8.000
12.000	.1	16.000		.0		5.0
	.100	.0		4.100	8.9	8.100
12.100	.1	16.100		.0		4.7
	.200	.0		4.200	8.9	8.200
12.200	.1	16.200		.0		4.4
	.300	.0		4.300	8.8	8.300
12.300	.1	16.300		.0		4.1
	.400	.0		4.400	8.8	8.400
12.400	.1	16.400		.0		3.6
	.500	.0		4.500	8.7	8.500
12.500	.1	16.500		.0		2.3
	.600	.0		4.600	8.7	8.600
12.600	.1	16.600		.0		.9
	.700	.0		4.700	8.6	8.700
12.700	.1	16.700		.0		.8
	.800	.0		4.800	8.5	8.800
12.800	.1	16.800		.0		.5
	.900	.0		4.900	8.4	8.900
12.900	.1	16.900		.0		.5
	1.000	.0		5.000	8.4	9.000
13.000	.1	17.000		.0		.4
	1.100	.0		5.100	8.3	9.100
13.100	.1	17.100		.0		.4
	1.200	.0		5.200	8.2	9.200
13.200	.1	17.200		.0		.3
	1.300	.0		5.300	8.1	9.300
13.300	.1	17.300		.0		.3
	1.400	.2		5.400	8.1	9.400
13.400	.1	17.400		.0		.3
	1.500	2.5		5.500	8.0	9.500
13.500	.0	17.500		.0		.3
	1.600	4.7		5.600	7.9	9.600
13.600	.0	17.600		.0		.3
	1.700	5.0		5.700	7.8	9.700
13.700	.0	17.700		.0		.3
	1.800	6.3		5.800	7.7	9.800
13.800	.0	17.800		.0		.3
	1.900	6.5		5.900	7.7	9.900
13.900	.0	17.900		.0		.3
	2.000	7.3		6.000	7.6	10.000
14.000	.0	18.000		.0		.2
	2.100	7.5		6.100	7.5	10.100
14.100	.0	18.100		.0		.2
	2.200	8.1		6.200	7.4	10.200
14.200	.0	18.200		.0		.2
	2.300	8.2		6.300	7.3	10.300
14.300	.0	18.300		.0		.2
	2.400	8.6		6.400	7.2	10.400
14.400	.0	18.400		.0		.2
	2.500	8.7		6.500	7.1	10.500
14.500	.0	18.500		.0		.2
	2.600	8.9		6.600	7.0	10.600
14.600	.0	18.600		.0		.2
	2.700	9.0		6.700	6.9	10.700
14.700	.0	18.700		.0		.2
	2.800	9.1		6.800	6.8	10.800
14.800	.0	18.800		.0		.2
	2.900	9.2		6.900	6.7	10.900
14.900	.0	18.900		.0		.2
	3.000	9.2		7.000	6.6	11.000

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15.000	.0	19.000	.0			
15.100	3.100	9.2	7.100	6.5	11.100	.1
15.200	.0	19.100	.0			
15.300	3.200	9.3	7.200	6.3	11.200	.1
15.400	.0	19.200	.0			
15.500	3.300	9.3	7.300	6.2	11.300	.1
15.600	.0	19.300	.0			
15.700	3.400	9.2	7.400	6.0	11.400	.1
15.800	.0	19.400	.0			
15.900	3.500	9.2	7.500	5.9	11.500	.1
16.000	.0	19.500	.0			
16.100	3.600	9.2	7.600	5.8	11.600	.1
16.200	.0	19.600	.0			
16.300	3.700	9.1	7.700	5.6	11.700	.1
16.400	.0	19.700	.0			
16.500	3.800	9.1	7.800	5.5	11.800	.1
16.600	.0					
16.700	3.900	9.1	7.900	5.3	11.900	.1
16.800	.0					

RUNOFF VOLUME = .41537 INCHES = 4.4262 ACRE- FEET
 PEAK DISCHARGE RATE = 9.26 CFS AT 3.200 HOURS BASIN AREA =
 .1998 SQ. MI.

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COMPUTE NM HYD ID=21 HYD NO=BASIN.A1 DA=.02422 SQ MI

%A=0 %B=12.5 %C=12.5 %D=75.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 71.878 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .018165 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 16.136 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .006055 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=21 CODE=10

HYDROGRAPH FROM AREA BASIN.A1

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
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HRS	CFS	HRS	CFS	HRS	CFS
15.000	.000	.0	5.000	.4	10.000
16.000	.3	.0	6.000	.4	11.000
17.000	.3	.0	7.000	.4	12.000
18.000	.3	.0	8.000	.4	13.000
19.000	.3	.0	9.000	.4	14.000
	.4	.4			
	.2	.2			

RUNOFF VOLUME = 2.02069 INCHES = 2.6102 ACRE-Feet
 PEAK DISCHARGE RATE = 51.68 CFS AT 1.500 HOURS BASIN AREA = .0242 SQ. MI.

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COMPUTE NM HYD ID=22 HYD NO=BASIN.A2 DA=.01331 SQ MI

%A=0 %B=33.0 %C=33.0 %D=34.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 17.907 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .004525 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 23.411 CFS UNIT VOLUME = 1.007 B = 354.44
 P60 = 1.8400
 AREA = .008785 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=22 CODE=10

HYDROGRAPH FROM AREA BASIN.A2

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
15.000	.000	.0	20.000	.1	.1	10.000	.1
16.000	.1	.0	21.000	.1	.1	11.000	.1
17.000	.1	.0	22.000	.1	.1	12.000	.1
	.2	.2	8.000	.1	.1	13.000	.1

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18.000	.1	23.000	.1			
19.000	4.000	.1	9.000	.1	14.000	.1
	.1	24.000	.1			

RUNOFF VOLUME = 1.35259 INCHES = .9602 ACRE-FEET
 PEAK DISCHARGE RATE = 23.43 CFS AT 1.500 HOURS BASIN AREA =
 .0133 SQ. MI.

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COMPUTE NM HYD ID=23 HYD NO=BASIN.A3 DA=.00502 SQ MI

%A=0 %B=5.0 %C=5.0 %D=90.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 17.878 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .004518 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.3378 CFS UNIT VOLUME = .9989 B = 354.44
 P60 = 1.8400
 AREA = .000502 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=23 CODE=10

HYDROGRAPH FROM AREA BASIN.A3

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		5.000	.1	10.000	.1
15.000	.1	.0	20.000	.1	.1	11.000	.1
16.000	.1	.0	21.000	.1	.1	12.000	.1
17.000	.1	3.0	22.000	.1	.1	13.000	.1
18.000	.1	.2	23.000	.1	.1	14.000	.1
19.000	.1	.1	24.000	.1	.1		

RUNOFF VOLUME = 2.26512 INCHES = .6064 ACRE-FEET
 PEAK DISCHARGE RATE = 11.41 CFS AT 1.500 HOURS BASIN AREA =

AHYMO-N0V13C-Output

.0050 SQ. MI.

*

*

COMPUTE NM HYD ID=24 HYD NO=BASIN.A4 DA=.01186 SQ MI

%A=0 %B=7.5 %C=7.5 %D=85.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 39.890 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .010081 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 4.7410 CFS UNIT VOLUME = 1.004 B = 354.44
 P60 = 1.8400
 AREA = .001779 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=24 CODE=10

HYDROGRAPH FROM AREA BASIN.A4

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		5.000	.2	10.000	.2
15.000	.2	.0	20.000	.1	.2	11.000	.2
16.000	.2	.0	21.000	.1	.2	12.000	.2
17.000	.2	6.7	22.000	.1	.2	13.000	.2
18.000	.1	.4	23.000	.1	.2	14.000	.2
19.000	.1	.2	24.000	.1	.2		

RUNOFF VOLUME = 2.18365 INCHES = 1.3812 ACRE-FEET
 PEAK DISCHARGE RATE = 26.39 CFS AT 1.500 HOURS BASIN AREA =
 .0119 SQ. MI.

*

AHYMO-N0V13C-Output

*

COMPUTE NM HYD ID=25 HYD NO=BASIN.A5 DA=.01830 SQ MI

%A=0 %B=17.0 %C=17.0 %D=66.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 47.792 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .012078 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 16.581 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .006222 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=25 CODE=10

HYDROGRAPH FROM AREA BASIN.A5

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		5.000	.2	10.000	.2
15.000	.2	.0	20.000	.2	.3	11.000	.2
16.000	.2	.0	21.000	.2	.3	12.000	.2
17.000	.2	8.5	22.000	.1	.3	13.000	.2
18.000	.2	.5	23.000	.1	.3	14.000	.2
19.000	.2	.2	24.000	.1			

RUNOFF VOLUME = 1.87404 INCHES = 1.8290 ACRE-FEET
 PEAK DISCHARGE RATE = 37.55 CFS AT 1.500 HOURS BASIN AREA =
 .0183 SQ. MI.

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COMPUTE NM HYD ID=26 HYD NO=BASIN.A6 DA=.02652 SQ MI

%A=0 %B=19.0 %C=19.0 %D=62.0

AHYMO-N0V13C-Output
TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 65.062 CFS UNIT VOLUME = 1.030 B = 526.28
P60 = 1.8400
AREA = .016442 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
CONSTANT, N = 3.989065
UNIT PEAK = 26.856 CFS UNIT VOLUME = 1.007 B = 354.44
P60 = 1.8400
AREA = .010078 SQ MI IA = .42500 INCHES INF = 1.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

PRINT HYD ID=26 CODE=10

HYDROGRAPH FROM AREA BASIN.A6

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	.000	.0		5.000	.3	10.000	.3
15.000	.3	.0	20.000	.2	.4	11.000	.3
16.000	.2	.0	21.000	.2	.4	12.000	.3
17.000	.2	11.8	22.000	.2	.4	13.000	.3
18.000	.2	.6	23.000	.2	.3	14.000	.3
19.000	.2	.3	24.000	.2			

RUNOFF VOLUME = 1.80886 INCHES = 2.5584 ACRE-FEET
PEAK DISCHARGE RATE = 53.44 CFS AT 1.500 HOURS BASIN AREA =
.0265 SQ. MI.

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*

COMPUTE NM HYD ID=27 HYD N0=BASIN.A7 DA=.01055 SQ MI

%A=0 %B=12.5 %C=12.5 %D=75.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 31.309 CFS UNIT VOLUME = 1.030 B = 526.28

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P60 = 1.8400
 AREA = .007913 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 7.0288 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .002638 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=26 CODE=10

HYDROGRAPH FROM AREA BASIN.A6

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	.000	.0		5.000	.3	10.000	.3
15.000	.3	.0	20.000	.2	.4	11.000	.3
16.000	.2	.0	21.000	.2	.4	12.000	.3
17.000	2.000	11.8	22.000	.2	.4	13.000	.3
18.000	.2	.6	23.000	.2	.3	14.000	.3
19.000	4.000	.3	24.000	.2			

RUNOFF VOLUME = 1.80886 INCHES = 2.5584 ACRE-FEET
 PEAK DISCHARGE RATE = 53.44 CFS AT 1.500 HOURS BASIN AREA = .0265 SQ. MI.

*

ADD HYD ID=55 HYD=01.A2 ID I=54 II=22

PRINT HYD ID=55 CODE=10

HYDROGRAPH FROM AREA 01.A2

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	.000	.0		5.000	8.5	10.000	.3
15.000	.1	.0	20.000	.1	7.7	11.000	.2
16.000	.1	.0	21.000	.1	6.7	12.000	.2
17.000	2.000	11.3	22.000	.1			

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18.000	3.000	9.4	8.000	5.1	13.000	.1
	.1	23.000	.1			
19.000	4.000	9.1	9.000	.5	14.000	.1
	.1	24.000	.1			

RUNOFF VOLUME = .47390 INCHES = 5.3862 ACRE-FEET
 PEAK DISCHARGE RATE = 25.89 CFS AT 1.500 HOURS BASIN AREA =
 .2131 SQ. MI.

*

ADD HYD ID=56 HYD=01A2.A1 ID I=55 II=21
 PRINT HYD ID=56 CODE=10

HYDROGRAPH FROM AREA 01A2.A1

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		5.000	8.8	10.000	.7
15.000	.4		20.000	.3			
	1.000	.0		6.000	8.1	11.000	.6
16.000	.4		21.000	.3			
	2.000	23.7		7.000	7.2	12.000	.5
17.000	.3		22.000	.3			
	3.000	10.1		8.000	5.5	13.000	.5
18.000	.3		23.000	.3			
	4.000	9.5		9.000	.9	14.000	.4
19.000	.3		24.000	.3			

RUNOFF VOLUME = .63175 INCHES = 7.9964 ACRE-FEET
 PEAK DISCHARGE RATE = 77.57 CFS AT 1.500 HOURS BASIN AREA =
 .2373 SQ. MI.

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ADD HYD ID=57 HYD=01A2A1.A3 ID I=56 II=23
 PRINT HYD ID=57 CODE=10

HYDROGRAPH FROM AREA 01A2A1.A3

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		5.000	8.9	10.000	.8
15.000	.4		20.000	.4			
	1.000	.0		6.000	8.2	11.000	.7
16.000	.4		21.000	.3			
	2.000	26.7		7.000	7.3	12.000	.6

AHYMO-NOV13C-Output

17.000	.4	22.000	.3			
18.000	3.000	10.2	8.000	5.6	13.000	.5
	.4	23.000	.3			
19.000	4.000	9.5	9.000	1.0	14.000	.5
	.4	24.000	.3			

RUNOFF VOLUME = .66558 INCHES = 8.6028 ACRE-FEET
 PEAK DISCHARGE RATE = 88.97 CFS AT 1.500 HOURS BASIN AREA =
 .2424 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.007

DIA=4.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE ELEV	FLOW AREA SQ FT	1.0 FLOW RATE CFS	
.00	.00	.00	.00	FT
1.78	.21	.25	.63	
2.44	.42	.69	2.74	
2.91	.63	1.25	6.36	
3.25	.83	1.90	11.44	
3.51	1.04	2.60	17.87	
3.71	1.25	3.36	25.49	
3.85	1.46	4.15	34.15	
3.94	1.67	4.96	43.66	
3.99	1.88	5.79	53.83	
4.00	2.08	6.62	64.42	
4.00	2.29	7.45	75.21	
4.00	2.50	8.27	85.93	
4.00	2.71	9.06	96.31	
4.00	2.92	9.82	106.03	
4.00	3.13	10.54	114.73	
4.00	3.34	11.20	121.97	
4.00	3.54	11.77	127.15	
4.00	3.75	12.24	129.28	

AHYMO-N0V13C-Output

4.00

4.00 12.57 129.28

4.00

ROUTE MCUNGE

ID=58 HYD=RTE.01A2A1.A3 INFLOW ID=57

DT=0.0 L=1000 NS=0 SLOPE=0.007

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 250

TABLE PTS= 19

DT= .100000

QMED= 44.49

CKMED= 12.2740

WIDTH MED= 3.95

NREACH= 1

DX= 1000.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.150	.0	2.78	1.19	1.000	.000	1.000
.202	.21	.2	.6	.110	1.8	4.15	2.52	1.495	.012	.990
.353	-.193	.1	.995	.018	-.012	5.73	3.94	2.063	.028	.982
.453	.42	.7	2.7	.071	2.4	7.26	5.07	2.612	.043	.976
.516	-.335	1.5	.984	.268	-.252	8.54	6.03	3.075	.059	.972
.560	.63	1.3	6.4	.055	2.9	9.64	6.86	3.469	.075	.967
.592	-.429	4.4	.979	.407	-.385	10.57	7.59	3.804	.093	.962
.615	.83	1.9	11.4	.046	3.2	11.35	8.24	4.085	.112	.957
.633	-.488	8.8	.974	.487	-.461	11.99	8.80	4.317	.132	.952
.646	1.04	2.6	17.9	.040	3.5	12.49	9.30	4.498	.154	.945
.655	-.527	14.5	.969	.540	-.509	12.84	9.73	4.624	.179	.938
.659	1.25	3.4	25.5	.037	3.7	12.93	10.09	4.653	.208	.929
.656	-.554	21.6	.964	.577	-.542	12.68	10.39	4.566	.242	.917
.645	1.46	4.1	34.2	.034	3.9	12.08	10.63	4.350	.285	.899
.590	-.572	29.7	.960	.605	-.564	9.58	10.89	3.450	.428	.825
.532	1.67	5.0	43.7	.032	3.9	7.46	10.90	2.686	.584	.727
.446	-.585	38.8	.954	.625	-.580	4.37	10.80	1.573	1.039	.425
.467	1.88	5.8	53.8	.030	4.0	2.49	10.56	.897	1.854	.011
	-.592	48.7	.949	.641	-.589					
	2.08	6.6	64.4	.029	4.0					
	-.594	59.1	.942	.652	-.594					
	2.29	7.5	75.2	.028	4.0					
	-.588	69.8	.934	.658	-.592					
	2.50	8.3	85.9	.027	4.0					
	-.572	80.5	.924	.658	-.582					
	2.71	9.1	96.3	.026	4.0					
	-.544	91.1	.909	.652	-.561					
	2.92	9.8	106.0	.026	4.0					
	-.496	101.2	.887	.637	-.524					
	3.13	10.5	114.7	.026	4.0					
	-.415	110.4	.853	.610	-.463					
	3.34	11.2	122.0	.025	4.0					
	-.258	118.4	.789	.566	-.355					
	3.54	11.8	127.2	.026	4.0					
	.129	124.6	.638	.494	-.131					
	3.75	12.2	129.3	.026	4.0					
	.522	128.2	.033	.461	.505					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 4 OCCURRED 1 TIMES.

AVERAGE NUMBER ITERATIONS = 1.1630

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.150	.0	2.78	1.19	1.000	.000	1.000

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.000	.000	.0	1.000	.000	.000					
	.21	.2	.6	.110	1.8	2.83	2.52	1.018	.018	.982
.018	.000	.1	.994	.006	.000					
	.42	.7	2.7	.071	2.4	2.93	3.94	1.055	.055	.948
.052	.000	1.5	.966	.034	.000					
	.63	1.3	6.4	.055	2.9	3.06	5.07	1.102	.102	.907
.093	.000	4.4	.927	.073	.000					
	.83	1.9	11.4	.046	3.2	3.21	6.03	1.157	.157	.865
.135	.000	8.8	.885	.115	.000					
	1.04	2.6	17.9	.040	3.5	3.38	6.86	1.215	.215	.823
.177	.000	14.5	.843	.157	.000					
	1.25	3.4	25.5	.037	3.7	3.55	7.59	1.277	.277	.783
.217	.000	21.6	.802	.198	.000					
	1.46	4.1	34.2	.034	3.9	3.72	8.24	1.340	.340	.746
.254	.000	29.7	.764	.236	.000					
	1.67	5.0	43.7	.032	3.9	3.90	8.80	1.405	.405	.712
.288	.000	38.8	.728	.272	.000					
	1.88	5.8	53.8	.030	4.0	4.09	9.30	1.471	.471	.680
.320	.000	48.7	.695	.305	.000					
	2.08	6.6	64.4	.029	4.0	4.27	9.73	1.538	.538	.650
.350	.000	59.1	.664	.336	.000					
	2.29	7.5	75.2	.028	4.0	4.45	10.09	1.603	.603	.624
.376	.000	69.8	.637	.363	.000					
	2.50	8.3	85.9	.027	4.0	4.62	10.39	1.664	.664	.601
.399	.000	80.5	.612	.388	.000					
	2.71	9.1	96.3	.026	4.0	4.78	10.63	1.720	.720	.581
.419	.000	91.1	.591	.409	.000					
	2.92	9.8	106.0	.026	4.0	4.92	10.79	1.770	.770	.565
.435	.000	101.2	.573	.427	.000					
	3.13	10.5	114.7	.026	4.0	5.04	10.89	1.813	.813	.551
.449	.000	110.4	.558	.442	.000					
	3.34	11.2	122.0	.025	4.0	5.13	10.90	1.848	.848	.541
.459	.000	118.4	.546	.454	.000					
	3.54	11.8	127.2	.026	4.0	4.37	10.80	1.573	1.039	.425
.446	.129	124.6	.537	.463	.000					
	3.75	12.2	129.3	.026	4.0	2.49	10.56	.897	1.854	.011
.467	.522	128.2	.033	.461	.505					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 7 TIMES.
AVERAGE NUMBER ITERATIONS = 1.0815
Equations solved with two passes: first using the Ponce correction to C1,
second using the Fread correction to C1, C2 and C3
*

PRINT HYD

ID=58 CODE=0

HYDROGRAPH FROM AREA RTE.01A2A1.A3

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	CFS
	HRS			HRS		
	CFS			CFS		
	.000	.0		5.100	8.9	10.200
15.300	.5	20.400		.4	8.8	10.300
	.100	.0		.4	8.8	.7
15.400	.4	20.500		.4	8.7	10.500
	.200	.0		.4	8.6	.7
15.500	.4	20.600		.4		
	.300	.0		.4		
15.600	.4	20.700		.4		
	.400	.0		.3		
15.700	.4	20.800				

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	.500	.0	5.600	8.6	10.700	.7
15.800	.4	20.900	.3			
	.600	.0	5.700	8.5	10.800	.7
15.900	.4	21.000	.3			
	.700	.0	5.800	8.4	10.900	.7
16.000	.4	21.100	.3			
	.800	.0	5.900	8.4	11.000	.7
16.100	.4	21.200	.3			
	.900	.0	6.000	8.3	11.100	.7
16.200	.4	21.300	.3			
	1.000	.0	6.100	8.2	11.200	.7
16.300	.4	21.400	.3			
	1.100	.0	6.200	8.1	11.300	.7
16.400	.4	21.500	.3			
	1.200	.7	6.300	8.0	11.400	.6
16.500	.4	21.600	.3			
	1.300	9.5	6.400	7.9	11.500	.6
16.600	.4	21.700	.3			
	1.400	39.7	6.500	7.8	11.600	.6
16.700	.4	21.800	.3			
	1.500	80.9	6.600	7.7	11.700	.6
16.800	.4	21.900	.3			
	1.600	79.7	6.700	7.7	11.800	.6
16.900	.4	22.000	.3			
	1.700	58.0	6.800	7.6	11.900	.6
17.000	.4	22.100	.3			
	1.800	42.4	6.900	7.5	12.000	.6
17.100	.4	22.200	.3			
	1.900	34.7	7.000	7.4	12.100	.6
17.200	.4	22.300	.3			
	2.000	29.3	7.100	7.2	12.200	.6
17.300	.4	22.400	.3			
	2.100	25.1	7.200	7.1	12.300	.6
17.400	.4	22.500	.3			
	2.200	18.4	7.300	6.9	12.400	.6
17.500	.4	22.600	.3			
	2.300	14.4	7.400	6.8	12.500	.6
17.600	.4	22.700	.3			
	2.400	12.8	7.500	6.7	12.600	.6
17.700	.4	22.800	.3			
	2.500	12.0	7.600	6.5	12.700	.5
17.800	.4	22.900	.3			
	2.600	11.4	7.700	6.4	12.800	.5
17.900	.4	23.000	.3			
	2.700	11.0	7.800	6.3	12.900	.5
18.000	.4	23.100	.3			
	2.800	10.7	7.900	6.1	13.000	.5
18.100	.4	23.200	.3			
	2.900	10.5	8.000	5.9	13.100	.5
18.200	.4	23.300	.3			
	3.000	10.3	8.100	5.6	13.200	.5
18.300	.4	23.400	.3			
	3.100	10.2	8.200	5.2	13.300	.5
18.400	.4	23.500	.3			
	3.200	10.1	8.300	5.0	13.400	.5
18.500	.4	23.600	.3			
	3.300	10.1	8.400	4.7	13.500	.5
18.600	.4	23.700	.3			
	3.400	10.0	8.500	4.1	13.600	.5
18.700	.4	23.800	.3			
	3.500	9.9	8.600	2.8	13.700	.5
18.800	.4	23.900	.3			
	3.600	9.9	8.700	1.5	13.800	.5

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18.900	.4	24.000	.3			
19.000	3.700	9.8	8.800	1.3	13.900	.5
	.4	24.100	.3			
19.100	3.800	9.7	8.900	1.1	14.000	.5
	.4	24.200	.2			
19.200	3.900	9.7	9.000	1.0	14.100	.5
	.4	24.300	.1			
19.300	4.000	9.6	9.100	1.0	14.200	.5
	.4	24.400	.0			
19.400	4.100	9.5	9.200	.9	14.300	.5
	.4	24.500	.0			
19.500	4.200	9.5	9.300	.9	14.400	.5
	.4	24.600	.0			
19.600	4.300	9.4	9.400	.9	14.500	.5
	.4	24.700	.0			
19.700	4.400	9.3	9.500	.9	14.600	.5
	.4	24.800	.0			
19.800	4.500	9.3	9.600	.9	14.700	.5
	.4	24.900	.0			
19.900	4.600	9.2	9.700	.8	14.800	.5
	.4	25.000	.0			
20.000	4.700	9.2	9.800	.8	14.900	.5
	.4	25.100	.0			
20.100	4.800	9.1	9.900	.8	15.000	.5
	.4	25.200	.0			
20.200	4.900	9.0	10.000	.8	15.100	.4
	.4	25.300	.0			
20.300	5.000	9.0	10.100	.8	15.200	.5
	.4					

RUNOFF VOLUME = .66299 INCHES = 8.5693 ACRE-FEET
 PEAK DISCHARGE RATE = 80.93 CFS AT 1.500 HOURS BASIN AREA =
 .2424 SQ. MI.

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ADD HYD

ID=59 HYD=A1TOA5 ID I=58 II=25

PRINT HYD

ID=59 CODE=10

HYDROGRAPH FROM AREA A1TOA5

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	CFS
	HRS			HRS		
	CFS			CFS		
	.000	.0	6.000	8.6	12.000	.8
18.000	.6	24.000	.5			
19.000	1.000	.0	7.000	7.6	13.000	.7
	.5	25.000	.0			
20.000	2.000	37.9	8.000	6.2	14.000	.7
	.5					
21.000	3.000	10.8	9.000	1.3	15.000	.6
	.5					
22.000	4.000	9.8	10.000	1.0	16.000	.6
	.5					
	5.000	9.2	11.000	.9	17.000	.6

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23.000 .5

RUNOFF VOLUME = .74801 INCHES = 10.3983 ACRE-FEET
 PEAK DISCHARGE RATE = 118.48 CFS AT 1.500 HOURS BASIN AREA =
 .2607 SQ. MI.

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DIVIDE HYD

ID=59 Q=8.26 ID I=61 HYD N0=BYPASS.A5

ID II=62 HYD N0=SURGE.A5

PRINT HYD

ID=61 CODE=10

HYDROGRAPH FROM AREA BYPASS.A5

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		6.000	8.3	12.000	.8
18.000	.6		24.000	.5		13.000	.7
19.000	1.000	.0	25.000	.0		14.000	.7
	.5	8.3		8.000	6.2	15.000	.6
20.000	2.000			9.000	1.3	16.000	.6
	.5	8.3		10.000	1.0	17.000	.6
21.000	3.000			11.000	.9		
	.5	8.3					
22.000	4.000						
	.5	8.3					
23.000	5.000						
	.5						

RUNOFF VOLUME = .74801 INCHES = 5.6527 ACRE-FEET
 PEAK DISCHARGE RATE = 8.26 CFS AT 1.300 HOURS BASIN AREA =
 .1417 SQ. MI.

PRINT HYD

ID=62 CODE=10

HYDROGRAPH FROM AREA SURGE.A5

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		2.000	29.6	4.000	1.6
6.000	.3			3.000	2.5	5.000	.9
	1.000	.0					

RUNOFF VOLUME = .74801 INCHES = 4.7456 ACRE-FEET
 PEAK DISCHARGE RATE = 110.22 CFS AT 1.500 HOURS BASIN AREA =

AHYMO-N0V13C-Output

.1190 SQ. MI.

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ROUTE RESERVOIR ID=60 HYD=POND.A5 INFLOW ID=62 CODE=5

OUTFLOW	STORAGE	DEPTH
0.0	0.0	5511
2.67	0.35	5512
3.78	1.03	5513
4.80	1.94	5514
5.74	3.15	5515
6.62	4.61	5516

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5511.00	.000	.00
.50	.00	5511.00	.000	.00
1.00	.00	5511.00	.000	.00
1.50	110.22	5513.03	1.055	3.81
2.00	29.61	5515.22	3.471	5.93
2.50	4.96	5515.42	3.770	6.11
3.00	2.54	5515.35	3.660	6.05
3.50	1.95	5515.24	3.503	5.95
4.00	1.58	5515.12	3.332	5.85
4.50	1.26	5515.00	3.151	5.74
5.00	.95	5514.85	2.963	5.59
5.50	.62	5514.68	2.767	5.44
6.00	.31	5514.52	2.565	5.29
6.50	.00	5514.34	2.355	5.12
7.00	.00	5514.17	2.147	4.96
7.50	.00	5514.00	1.945	4.80
8.00	.00	5513.79	1.751	4.59
8.50	.00	5513.59	1.566	4.38
9.00	.00	5513.39	1.389	4.18
9.50	.00	5513.21	1.220	3.99
10.00	.00	5513.03	1.059	3.81
10.50	.00	5512.82	.906	3.58
11.00	.00	5512.61	.763	3.34
11.50	.00	5512.41	.629	3.13
12.00	.00	5512.23	.504	2.92
12.50	.00	5512.06	.388	2.73
13.00	.00	5511.81	.284	2.17

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13.50	.00	5511.59	.207	1.58
14.00	.00	5511.43	.151	1.15
14.50	.00	5511.31	.110	.84
15.00	.00	5511.23	.080	.61
15.50	.00	5511.17	.059	.45
16.00	.00	5511.12	.043	.33
16.50	.00	5511.09	.031	.24
17.00	.00	5511.06	.023	.17
17.50	.00	5511.05	.017	.13
18.00	.00	5511.03	.012	.09
18.50	.00	5511.03	.009	.07
19.00	.00	5511.02	.006	.05
19.50	.00	5511.01	.005	.04
20.00	.00	5511.01	.003	.03
20.50	.00	5511.01	.003	.02
21.00	.00	5511.01	.002	.01
21.50	.00	5511.00	.001	.01
22.00	.00	5511.00	.001	.01
22.50	.00	5511.00	.001	.01
23.00	.00	5511.00	.001	.00

PEAK DISCHARGE = 6.116 CFS - PEAK OCCURS AT HOUR 2.40

MAXIMUM WATER SURFACE ELEVATION = 5515.428

MAXIMUM STORAGE = 3.7744 AC-FT INCREMENTAL TIME= .100000HRS

PRINT HYD ID=60 CODE=10

HYDROGRAPH FROM AREA POND.A5

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0	6.000	5.3	12.000	2.9	
18.000	.1		24.000	.0			
	1.000	.0	7.000	5.0	13.000	2.2	
19.000	.0	25.000	.0				
	2.000	5.9	8.000	4.6	14.000	1.2	
20.000	.0						
	3.000	6.0	9.000	4.2	15.000	.6	
21.000	.0						
	4.000	5.8	10.000	3.8	16.000	.3	
22.000	.0						
	5.000	5.6	11.000	3.3	17.000	.2	
23.000	.0						

RUNOFF VOLUME = .74801 INCHES

= 4.7456 ACRE-FEET

PEAK DISCHARGE RATE = 6.12 CFS AT 2.400 HOURS BASIN AREA = .1190 SQ. MI.

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ADD HYD ID=59 HYD=TOTALA5 ID I=61 II=60

PRINT HYD ID=59 CODE=10

HYDROGRAPH FROM AREA TOTALA5

AHYMO-N0V13C-Output

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
18.000	.000	.0	24.000	6.000	13.5	12.000	3.7
19.000	.6	.0	25.000	7.000	12.6	13.000	2.9
20.000	1.000	14.2	8.000	10.8	14.000	1.8	
21.000	.6	14.3	9.000	5.5	15.000	1.3	
22.000	2.000	14.1	10.000	4.9	16.000	.9	
23.000	.5	13.9	11.000	4.3	17.000	.8	
	.5						

RUNOFF VOLUME = .74800 INCHES = 10.3982 ACRE-FEET
 PEAK DISCHARGE RATE = 14.38 CFS AT 2.400 HOURS BASIN AREA =
 .2607 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.013

DIA=2.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION 1.0			MAX
	WATER SURFACE ELEV	FLOW AREA SQ FT	FLOW RATE CFS	
.00	.00	.00	.00	FT
.89	.10	.06	.14	
1.22	.21	.17	.59	
1.45	.31	.31	1.37	
1.62	.42	.47	2.46	
1.76	.52	.65	3.83	
1.85	.63	.84	5.47	
1.93	.73	1.04	7.33	
1.97	.83	1.24	9.37	
2.00	.94	1.45	11.55	
2.00	1.04	1.66	13.83	
2.00	1.15	1.86	16.14	

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2.00	1.25	2.07	18.44
2.00	1.35	2.27	20.67
2.00	1.46	2.46	22.76
2.00	1.56	2.63	24.62
2.00	1.67	2.80	26.18
2.00	1.77	2.94	27.29
2.00	1.88	3.06	27.75
2.00	2.00	3.14	27.75

ROUTE MCUNGE

ID=61 HYD=RTE.A4 INFLOW ID=24

DT=0.0 L=900 NS=0 SLOPE=0.013

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 249

TABLE PTS= 19

DT= .100000

QMED= 13.20

CKMED=

10.9126

WIDTH MED=

2.00

NREACH= 1

DX=

900.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.157	.0	2.50	1.02	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.10	.1	.1	.115	.9	3.56	2.17	1.426	.004	.997
.177	-.174	.0	1.000	.028	-.027					
	.21	.2	.6	.074	1.2	4.92	3.38	1.968	.008	.994
.328	-.322	.3	.995	.242	-.237					
	.31	.3	1.4	.057	1.5	6.23	4.35	2.492	.013	.993
.429	-.422	.9	.993	.383	-.376					
	.42	.5	2.5	.048	1.6	7.33	5.18	2.933	.018	.991
.494	-.485	1.9	.992	.464	-.456					
	.52	.7	3.8	.042	1.8	8.27	5.89	3.309	.023	.990
.538	-.528	3.1	.990	.518	-.508					
	.63	.8	5.5	.038	1.9	9.07	6.52	3.628	.028	.988
.570	-.559	4.6	.989	.556	-.545					
	.73	1.0	7.3	.035	1.9	9.74	7.07	3.897	.033	.986
.594	-.581	6.4	.987	.584	-.571					
	.83	1.2	9.4	.033	2.0	10.29	7.56	4.118	.039	.985
.612	-.597	8.3	.986	.605	-.590					
	.94	1.4	11.6	.031	2.0	10.73	7.98	4.290	.046	.983
.625	-.608	10.4	.984	.620	-.604					
	1.04	1.7	13.8	.030	2.0	11.03	8.35	4.411	.054	.980
.634	-.614	12.7	.982	.631	-.612					
	1.15	1.9	16.1	.029	2.0	11.10	8.67	4.439	.062	.977
.636	-.614	15.0	.979	.636	-.615					
	1.25	2.1	18.4	.028	2.0	10.89	8.92	4.356	.072	.973
.632	-.605	17.3	.976	.635	-.611					
	1.35	2.3	20.7	.027	2.0	10.37	9.12	4.150	.085	.967
.618	-.585	19.6	.971	.626	-.597					
	1.46	2.5	22.8	.027	2.0	9.51	9.27	3.804	.102	.958
.592	-.551	21.7	.964	.608	-.571					
	1.56	2.6	24.6	.027	2.0	8.23	9.35	3.291	.128	.942
.547	-.489	23.7	.952	.574	-.526					

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	1.67	2.8	26.2	.027	2.0	6.41	9.35	2.562	.175	.907
.465	-.371	25.4	.929	.515	-.445					
	1.77	2.9	27.3	.027	2.0	3.75	9.27	1.501	.311	.779
.289	-.068	26.7	.872	.402	-.274					
	1.88	3.1	27.7	.028	2.0	2.14	9.07	.855	.555	.540
.170	.290	27.5	.555	.171	.274					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 4 OCCURRED 1 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.0543

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.157	.0	2.50	1.02	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.10	.1	.1	.115	.9	2.51	2.17	1.005	.005	.995
.005	.000	.0	.998	.002	.000					
	.21	.2	.6	.074	1.2	2.54	3.38	1.016	.016	.984
.016	.000	.3	.990	.010	.000					
	.31	.3	1.4	.057	1.5	2.58	4.35	1.031	.031	.970
.030	.000	.9	.977	.023	.000					
	.42	.5	2.5	.048	1.6	2.62	5.18	1.049	.049	.953
.047	.000	1.9	.961	.039	.000					
	.52	.7	3.8	.042	1.8	2.67	5.89	1.070	.070	.935
.065	.000	3.1	.944	.056	.000					
	.63	.8	5.5	.038	1.9	2.73	6.52	1.092	.092	.915
.085	.000	4.6	.925	.075	.000					
	.73	1.0	7.3	.035	1.9	2.79	7.07	1.117	.117	.896
.104	.000	6.4	.905	.095	.000					
	.83	1.2	9.4	.033	2.0	2.86	7.56	1.142	.142	.875
.125	.000	8.3	.885	.115	.000					
	.94	1.4	11.6	.031	2.0	2.92	7.98	1.169	.169	.855
.145	.000	10.4	.865	.135	.000					
	1.04	1.7	13.8	.030	2.0	2.99	8.35	1.197	.197	.835
.165	.000	12.7	.845	.155	.000					
	1.15	1.9	16.1	.029	2.0	3.06	8.67	1.225	.225	.816
.184	.000	15.0	.826	.174	.000					
	1.25	2.1	18.4	.028	2.0	3.13	8.92	1.252	.252	.799
.201	.000	17.3	.807	.193	.000					
	1.35	2.3	20.7	.027	2.0	3.19	9.12	1.277	.277	.783
.217	.000	19.6	.791	.209	.000					
	1.46	2.5	22.8	.027	2.0	3.25	9.27	1.299	.299	.770
.230	.000	21.7	.776	.224	.000					
	1.56	2.6	24.6	.027	2.0	3.30	9.35	1.319	.319	.758
.242	.000	23.7	.764	.236	.000					
	1.67	2.8	26.2	.027	2.0	3.34	9.35	1.335	.335	.749
.251	.000	25.4	.753	.247	.000					
	1.77	2.9	27.3	.027	2.0	3.37	9.27	1.346	.346	.743
.257	.000	26.7	.746	.254	.000					
	1.88	3.1	27.7	.028	2.0	2.14	9.07	.855	.555	.540
.170	.290	27.5	.555	.171	.274					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 5 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.0407

Equations solved with two passes: first using the Ponce correction to C1,
 second using the Fread correction to C1, C2 and C3

PRINT HYD

ID=61 CODE=0

HYDROGRAPH FROM AREA RTE.A4

TIME	FLOW	TIME	FLOW	TIME	FLOW
------	------	------	------	------	------

AHYMO-N0V13C-Output

TIME	FLOW	TIME	FLOW			
HRS	HRS	CFS	HRS	CFS	HRS	CFS
	.000	.0	5.100	.2	10.200	.2
15.300	.2	20.400	.1			
	.100	.0	5.200	.2	10.300	.2
15.400	.2	20.500	.1			
	.200	.0	5.300	.2	10.400	.2
15.500	.2	20.600	.1			
	.300	.0	5.400	.2	10.500	.2
15.600	.2	20.700	.1			
	.400	.0	5.500	.2	10.600	.2
15.700	.2	20.800	.1			
	.500	.0	5.600	.2	10.700	.2
15.800	.2	20.900	.1			
	.600	.0	5.700	.2	10.800	.2
15.900	.2	21.000	.1			
	.700	.0	5.800	.2	10.900	.2
16.000	.2	21.100	.1			
	.800	.0	5.900	.2	11.000	.2
16.100	.2	21.200	.1			
	.900	.0	6.000	.2	11.100	.2
16.200	.2	21.300	.1			
	1.000	.0	6.100	.2	11.200	.2
16.300	.2	21.400	.1			
	1.100	.0	6.200	.2	11.300	.2
16.400	.1	21.500	.1			
	1.200	.2	6.300	.2	11.400	.2
16.500	.1	21.600	.1			
	1.300	3.0	6.400	.3	11.500	.2
16.600	.1	21.700	.1			
	1.400	11.8	6.500	.2	11.600	.2
16.700	.1	21.800	.1			
	1.500	24.6	6.600	.2	11.700	.2
16.800	.1	21.900	.1			
	1.600	24.5	6.700	.2	11.800	.2
16.900	.1	22.000	.1			
	1.700	17.1	6.800	.2	11.900	.2
17.000	.1	22.100	.1			
	1.800	12.1	6.900	.2	12.000	.2
17.100	.1	22.200	.1			
	1.900	9.6	7.000	.2	12.100	.2
17.200	.1	22.300	.1			
	2.000	7.9	7.100	.2	12.200	.2
17.300	.1	22.400	.1			
	2.100	6.4	7.200	.2	12.300	.2
17.400	.1	22.500	.1			
	2.200	3.9	7.300	.2	12.400	.2
17.500	.1	22.600	.1			
	2.300	2.2	7.400	.2	12.500	.2
17.600	.1	22.700	.1			
	2.400	1.5	7.500	.2	12.600	.2
17.700	.1	22.800	.1			
	2.500	1.1	7.600	.2	12.700	.2
17.800	.1	22.900	.1			
	2.600	.9	7.700	.2	12.800	.2
17.900	.1	23.000	.1			
	2.700	.7	7.800	.2	12.900	.2
18.000	.1	23.100	.1			
	2.800	.6	7.900	.2	13.000	.2
18.100	.1	23.200	.1			
	2.900	.5	8.000	.2	13.100	.2
18.200	.1	23.300	.1			

AHYMO-NOV13C-Output						
	3.000	.4	8.100	.2	13.200	.2
18.300	.1	23.400	.1			
	3.100	.4	8.200	.2	13.300	.2
18.400	.1	23.500	.1			
	3.200	.3	8.300	.2	13.400	.2
18.500	.1	23.600	.1			
	3.300	.3	8.400	.2	13.500	.2
18.600	.1	23.700	.1			
	3.400	.3	8.500	.2	13.600	.2
18.700	.1	23.800	.1			
	3.500	.2	8.600	.2	13.700	.2
18.800	.1	23.900	.1			
	3.600	.2	8.700	.2	13.800	.2
18.900	.1	24.000	.1			
	3.700	.2	8.800	.2	13.900	.2
19.000	.1	24.100	.1			
	3.800	.2	8.900	.2	14.000	.2
19.100	.1	24.200	.1			
	3.900	.2	9.000	.2	14.100	.2
19.200	.1	24.300	.0			
	4.000	.2	9.100	.2	14.200	.2
19.300	.1	24.400	.0			
	4.100	.2	9.200	.2	14.300	.2
19.400	.1	24.500	.0			
	4.200	.2	9.300	.2	14.400	.2
19.500	.1	24.600	.0			
	4.300	.2	9.400	.2	14.500	.2
19.600	.1	24.700	.0			
	4.400	.2	9.500	.2	14.600	.2
19.700	.1	24.800	.0			
	4.500	.2	9.600	.2	14.700	.2
19.800	.1	24.900	.0			
	4.600	.2	9.700	.2	14.800	.2
19.900	.1	25.000	.0			
	4.700	.2	9.800	.2	14.900	.2
20.000	.1	25.100	.0			
	4.800	.2	9.900	.2	15.000	.2
20.100	.1					
	4.900	.2	10.000	.2	15.100	.2
20.200	.1					
	5.000	.2	10.100	.2	15.200	.2
20.300	.1					

RUNOFF VOLUME = 2.16943 INCHES = 1.3722 ACRE-FEET
 PEAK DISCHARGE RATE = 24.62 CFS AT 1.500 HOURS BASIN AREA =
 .0119 SQ. MI.

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ADD HYD ID=62 HYD=RTE.A4.A6 ID I=61 II=26

PRINT HYD ID=62 CODE=10

HYDROGRAPH FROM AREA RTE.A4.A6

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
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AHYMO-N0V13C-Output							
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
18.000	.000	.0	24.000	6.000	.6	12.000	.5
19.000	.4	.0	25.000	7.000	.6	13.000	.5
20.000	1.000	19.7		8.000	.6	14.000	.4
21.000	.4	1.0		9.000	.6	15.000	.4
22.000	2.000	.5		10.000	.5	16.000	.4
23.000	.3	.5		11.000	.5	17.000	.4

RUNOFF VOLUME = 1.92024 INCHES = 3.9306 ACRE-FEET
 PEAK DISCHARGE RATE = 78.06 CFS AT 1.500 HOURS BASIN AREA =
 .0384 SQ. MI.

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ADD HYD ID=63 HYD=RTEA4A6.PONDA5 ID I=62 II=59
 PRINT HYD ID=63 CODE=10

HYDROGRAPH FROM AREA RTEA4A6.PONDA5

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
18.000	.000	.0	24.000	6.000	14.2	12.000	4.2
19.000	1.0	.0	25.000	7.000	13.2	13.000	3.4
20.000	.9	33.9		8.000	11.4	14.000	2.3
21.000	.9	15.3		9.000	6.0	15.000	1.7
22.000	.8	14.6		10.000	5.4	16.000	1.3
23.000	.8	14.4		11.000	4.8	17.000	1.1

RUNOFF VOLUME = .89846 INCHES = 14.3287 ACRE-FEET
 PEAK DISCHARGE RATE = 90.13 CFS AT 1.500 HOURS BASIN AREA =
 .2990 SQ. MI.

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DIVIDE HYD ID=63 Q=8.26 ID I=61 HYD N0=BYPASS.A6
 Page 29

AHYMO-N0V13C-Output

ID II=62 HYD NO=SURGE.A6

PRINT HYD

ID=61 CODE=10

HYDROGRAPH FROM AREA BYPASS.A6

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
18.000	.000	.0	24.000	6.000	8.3	12.000	4.2
19.000	1.000	.0	25.000	7.000	8.3	13.000	3.4
20.000	.9	8.3		8.000	8.3	14.000	2.3
21.000	2.000	8.3		9.000	6.0	15.000	1.7
22.000	.9	8.3	10.000	10.000	5.4	16.000	1.3
23.000	3.000	8.3	11.000	11.000	4.8	17.000	1.1
	4.000	8.3					
	.8	8.3					
	5.000	8.3					
	.8						

RUNOFF VOLUME = .89846 INCHES = 8.0280 ACRE-Feet
 PEAK DISCHARGE RATE = 8.26 CFS AT 1.300 HOURS BASIN AREA =
 .1675 SQ. MI.

PRINT HYD

ID=62 CODE=10

HYDROGRAPH FROM AREA SURGE.A6

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
6.000	.000	.0	8.000	2.000	25.6	4.000	6.4
7.000	5.9	.0		3.000	7.1	5.000	6.1
	1.000	.0					
	5.0						

RUNOFF VOLUME = .89846 INCHES = 6.3008 ACRE-Feet
 PEAK DISCHARGE RATE = 81.87 CFS AT 1.500 HOURS BASIN AREA =
 .1315 SQ. MI.

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ROUTE RESERVOIR

ID=64 HYD=POND.A6 INFLOW ID=62 CODE=5

OUTFLOW

STORAGE DEPTH

AHYMO-NOV13C-Output

0

0

5500

2.67	0.30	5501
3.78	0.85	5502
4.80	1.57	5503
5.74	2.47	5504
6.62	3.52	5505
7.46	4.72	5506
20.0	6.06	5507

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5500.00	.000	.00
.50	.00	5500.00	.000	.00
1.00	.00	5500.00	.000	.00
1.50	81.87	5502.15	.959	3.93
2.00	25.62	5504.19	2.668	5.91
2.50	8.93	5504.51	3.010	6.19
3.00	7.09	5504.58	3.075	6.25
3.50	6.59	5504.60	3.097	6.27
4.00	6.38	5504.61	3.106	6.27
4.50	6.25	5504.61	3.107	6.27
5.00	6.12	5504.60	3.104	6.27
5.50	6.01	5504.60	3.095	6.26
6.00	5.90	5504.58	3.083	6.25
6.50	5.66	5504.57	3.066	6.24
7.00	4.98	5504.53	3.029	6.21
7.50	4.10	5504.47	2.961	6.15
8.00	3.09	5504.37	2.859	6.07
8.50	1.10	5504.22	2.700	5.93
9.00	.00	5503.99	2.464	5.73
9.50	.00	5503.74	2.232	5.49
10.00	.00	5503.49	2.010	5.26
10.50	.00	5503.25	1.797	5.04
11.00	.00	5503.03	1.593	4.82
11.50	.00	5502.76	1.399	4.56
12.00	.00	5502.51	1.216	4.30
12.50	.00	5502.27	1.044	4.05
13.00	.00	5502.04	.881	3.82
13.50	.00	5501.78	.729	3.54
14.00	.00	5501.52	.589	3.25
14.50	.00	5501.29	.460	2.99
15.00	.00	5501.07	.341	2.75
15.50	.00	5500.79	.238	2.12
16.00	.00	5500.55	.164	1.46
16.50	.00	5500.38	.114	1.01
17.00	.00	5500.26	.079	.70
17.50	.00	5500.18	.055	.49
18.00	.00	5500.13	.038	.34
18.50	.00	5500.09	.026	.23
19.00	.00	5500.06	.018	.16
19.50	.00	5500.04	.013	.11
20.00	.00	5500.03	.009	.08

AHYMO-N0V13C-Output

20.50	.00	5500.02	.006	.05
21.00	.00	5500.01	.004	.04
21.50	.00	5500.01	.003	.03
22.00	.00	5500.01	.002	.02
22.50	.00	5500.00	.001	.01
23.00	.00	5500.00	.001	.01
23.50	.00	5500.00	.001	.01
24.00	.00	5500.00	.000	.00

PEAK DISCHARGE = 6.274 CFS - PEAK OCCURS AT HOUR 4.40
 MAXIMUM WATER SURFACE ELEVATION = 5504.607
 MAXIMUM STORAGE = 3.1075 AC-FT INCREMENTAL TIME= .100000HRS

*

PRINT HYD ID=64 CODE=10

HYDROGRAPH FROM AREA POND.A6

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
	.000	.0		6.000	6.3	12.000	4.3
18.000	.3		24.000	.0			
	1.000	.0		7.000	6.2	13.000	3.8
19.000	.2		25.000	.0			
	2.000	5.9		8.000	6.1	14.000	3.3
20.000	.1			9.000	5.7	15.000	2.8
	3.000	6.2		10.000	5.3	16.000	1.5
21.000	.0						
	4.000	6.3					
22.000	.0						
	5.000	6.3		11.000	4.8	17.000	.7
23.000	.0						

RUNOFF VOLUME = .89846 INCHES = 6.3008 ACRE-Feet
 PEAK DISCHARGE RATE = 6.27 CFS AT 4.400 HOURS BASIN AREA =
 .1315 SQ. MI.

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ADD HYD ID=66 HYD=TOTALA6 ID I=61 II=64

PRINT HYD ID=66 CODE=10

HYDROGRAPH FROM AREA TOTALA6

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
	.000	.0		6.000	14.5	12.000	8.5
18.000	1.4		24.000	.8			
	1.000	.0		7.000	14.5	13.000	7.2
19.000	1.1		25.000	.0			

AHYMO-NOV13C-Output

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS
20.000	2.000	14.2	8.000	14.3	14.000	5.5
	1.0					
21.000	3.000	14.5	9.000	11.8	15.000	4.4
	.9					
22.000	4.000	14.5	10.000	10.6	16.000	2.8
	.8					
23.000	5.000	14.5	11.000	9.6	17.000	1.8
	.8					

RUNOFF VOLUME = .89845 INCHES = 14.3286 ACRE-FEET
 PEAK DISCHARGE RATE = 14.53 CFS AT 4.400 HOURS BASIN AREA = .2990 SQ. MI.

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ADD HYD ID=65 HYD=PONDA6.A7 ID I=66 II=27
 PRINT HYD ID=65 CODE=10

HYDROGRAPH FROM AREA PONDA6.A7

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
18.000	.000	.0	24.000	6.000	14.7	12.000	8.7
	1.5			.9			
19.000	1.000	.0	25.000	7.000	14.7	13.000	7.3
	1.2			.0			
20.000	2.000	19.6		8.000	14.5	14.000	5.7
	1.1						
21.000	3.000	14.8		9.000	11.9	15.000	4.5
	1.0						
22.000	4.000	14.7		10.000	10.8	16.000	2.9
	.9						
23.000	5.000	14.7		11.000	9.7	17.000	2.0
	.9						

RUNOFF VOLUME = .93669 INCHES = 15.4656 ACRE-FEET
 PEAK DISCHARGE RATE = 34.71 CFS AT 1.500 HOURS BASIN AREA = .3096 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.021
 DIA=2.0 N=0.013

WIDTH	RATING CURVE	PIPE SECTION	1.0	MAX
	WATER	FLOW	FLOW	
	SURFACE	AREA	RATE	

AHYMO-N0V13C-Output

	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
.89	.10	.06	.17	
1.22	.21	.17	.75	
1.45	.31	.31	1.74	
1.62	.42	.47	3.12	
1.76	.52	.65	4.87	
1.85	.63	.84	6.95	
1.93	.73	1.04	9.32	
1.97	.83	1.24	11.91	
2.00	.94	1.45	14.68	
2.00	1.04	1.66	17.57	
2.00	1.15	1.86	20.51	
2.00	1.25	2.07	23.44	
2.00	1.35	2.27	26.27	
2.00	1.46	2.46	28.92	
2.00	1.56	2.63	31.30	
2.00	1.67	2.80	33.27	
2.00	1.77	2.94	34.68	
2.00	1.88	3.06	35.26	
2.00	2.00	3.14	35.26	

ROUTE MCUNGE

ID=66 HYD=RTE.A6.A7 INFLOW ID=65

DT=0.0 L=520 NS=0 SLOPE=0.021

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

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PRINT HYD

ID=66 CODE=0

HYDROGRAPH FROM AREA RTE.A6.A7

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	TIME FLOW HRS CFS	TIME FLOW HRS CFS	TIME FLOW HRS CFS
15.600	.000 3.5 .100	.0 20.800 .0	5.200 1.0 5.300	14.7 14.7	10.400 10.500	10.4 10.2

AHYMO-NOV13C-Output

15.700	3.4	20.900	1.0			
	.200	.0	5.400	14.7	10.600	10.1
15.800	3.2	21.000	1.0			
	.300	.0	5.500	14.7	10.700	10.0
15.900	3.1	21.100	1.0			
	.400	.0	5.600	14.7	10.800	9.9
16.000	2.9	21.200	1.0			
	.500	.0	5.700	14.7	10.900	9.8
16.100	2.8	21.300	1.0			
	.600	.0	5.800	14.7	11.000	9.7
16.200	2.7	21.400	1.0			
	.700	.0	5.900	14.7	11.100	9.6
16.300	2.6	21.500	1.0			
	.800	.0	6.000	14.7	11.200	9.5
16.400	2.5	21.600	.9			
	.900	.0	6.100	14.7	11.300	9.4
16.500	2.4	21.700	.9			
	1.000	.0	6.200	14.7	11.400	9.3
16.600	2.3	21.800	.9			
	1.100	.6	6.300	14.7	11.500	9.2
16.700	2.2	21.900	.9			
	1.200	10.2	6.400	14.7	11.600	9.1
16.800	2.1	22.000	.9			
	1.300	16.5	6.500	14.7	11.700	9.0
16.900	2.0	22.100	.9			
	1.400	31.3	6.600	14.7	11.800	8.9
17.000	2.0	22.200	.9			
	1.500	34.7	6.700	14.7	11.900	8.8
17.100	1.9	22.300	.9			
	1.600	28.6	6.800	14.7	12.000	8.7
17.200	1.8	22.400	.9			
	1.700	24.0	6.900	14.7	12.100	8.6
17.300	1.8	22.500	.9			
	1.800	21.9	7.000	14.7	12.200	8.5
17.400	1.7	22.600	.9			
	1.900	20.6	7.100	14.6	12.300	8.4
17.500	1.7	22.700	.9			
	2.000	19.6	7.200	14.6	12.400	8.3
17.600	1.6	22.800	.9			
	2.100	17.5	7.300	14.6	12.500	8.2
17.700	1.6	22.900	.9			
	2.200	16.2	7.400	14.6	12.600	8.1
17.800	1.5	23.000	.9			
	2.300	15.7	7.500	14.6	12.700	7.9
17.900	1.5	23.100	.9			
	2.400	15.4	7.600	14.6	12.800	7.7
18.000	1.5	23.200	.9			
	2.500	15.2	7.700	14.6	12.900	7.5
18.100	1.4	23.300	.9			
	2.600	15.1	7.800	14.5	13.000	7.3
18.200	1.4	23.400	.9			
	2.700	15.0	7.900	14.5	13.100	7.1
18.300	1.4	23.500	.9			
	2.800	14.9	8.000	14.5	13.200	6.9
18.400	1.3	23.600	.9			
	2.900	14.8	8.100	14.5	13.300	6.8
18.500	1.3	23.700	.9			
	3.000	14.8	8.200	14.5	13.400	6.6
18.600	1.3	23.800	.9			
	3.100	14.8	8.300	14.4	13.500	6.4
18.700	1.3	23.900	.9			
	3.200	14.7	8.400	14.4	13.600	6.2
18.800	1.2	24.000	.9			

AHYMO-NOV13C-Output

18.900	3.300	14.7	8.500	14.4	13.700	6.1
	1.2	24.100	.7			
	3.400	14.7	8.600	14.0	13.800	5.9
19.000	1.2	24.200	.3			
	3.500	14.7	8.700	12.7	13.900	5.8
19.100	1.2	24.300	.1			
	3.600	14.7	8.800	12.4	14.000	5.7
19.200	1.2	24.400	.1			
	3.700	14.7	8.900	12.0	14.100	5.5
19.300	1.2	24.500	.1			
	3.800	14.7	9.000	11.9	14.200	5.4
19.400	1.1	24.600	.0			
	3.900	14.7	9.100	11.8	14.300	5.3
19.500	1.1	24.700	.0			
	4.000	14.7	9.200	11.7	14.400	5.2
19.600	1.1	24.800	.0			
	4.100	14.7	9.300	11.5	14.500	5.1
19.700	1.1	24.900	.0			
	4.200	14.7	9.400	11.4	14.600	5.0
19.800	1.1	25.000	.0			
	4.300	14.7	9.500	11.3	14.700	4.8
19.900	1.1	25.100	.0			
	4.400	14.7	9.600	11.2	14.800	4.7
20.000	1.1	25.200	.0			
	4.500	14.7	9.700	11.1	14.900	4.6
20.100	1.1	25.300	.0			
	4.600	14.7	9.800	11.0	15.000	4.5
20.200	1.0	25.400	.0			
	4.700	14.7	9.900	10.9	15.100	4.5
20.300	1.0	25.500	.0			
	4.800	14.7	10.000	10.8	15.200	4.4
20.400	1.0	25.600	.0			
	4.900	14.7	10.100	10.7	15.300	4.1
20.500	1.0	25.700	.0			
	5.000	14.7	10.200	10.6	15.400	3.9
20.600	1.0	25.800	.0			
	5.100	14.7	10.300	10.5	15.500	3.7
20.700	1.0	25.900	.0			

RUNOFF VOLUME = .93669 INCHES = 15.4656 ACRE-FEET
 PEAK DISCHARGE RATE = 34.71 CFS AT 1.500 HOURS BASIN AREA =
 .3096 SQ. MI.

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COMPUTE NM HYD ID=25 HYD NO=BASIN.D1 DA=.01816 SQ MI

%A=0 %B=19.0 %C=19.0 %D=62.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 44.552 CFS UNIT VOLUME = 1.030 B = 526.28

P60 = 1.8400

AREA = .011259 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =

AHYMO-N0V13C-Output

.100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 18.390 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .006901 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD

ID=25 CODE=10

HYDROGRAPH FROM AREA BASIN.D1

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		5.000	.2	10.000	.2
15.000	.2		20.000	.1		11.000	.2
	1.000	.0		6.000	.3		
16.000	.2		21.000	.1		12.000	.2
	2.000	8.1		7.000	.3		
17.000	.2		22.000	.1		13.000	.2
	3.000	.4		8.000	.3		
18.000	.2		23.000	.1		14.000	.2
	4.000	.2		9.000	.2		
19.000	.2		24.000	.1			

RUNOFF VOLUME = 1.80886 INCHES = 1.7519 ACRE-FEET
 PEAK DISCHARGE RATE = 36.60 CFS AT 1.500 HOURS BASIN AREA =
 .0182 SQ. MI.

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ADD HYD

ID=67 HYD=A6.A7.D1 ID I=66 II=25

PRINT HYD

ID=67 CODE=10

HYDROGRAPH FROM AREA A6.A7.D1

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		6.000	15.0	12.000	8.9
18.000	1.6		24.000	1.0		13.000	7.5
	1.000	.0		7.000	14.9		
19.000	1.4		25.000	.0		14.000	5.8
	2.000	27.6		8.000	14.8		
20.000	1.2			9.000	12.2	15.000	4.7
	3.000	15.2		10.000	11.0	16.000	3.1
21.000	1.1						
	4.000	14.9					
22.000	1.1						

AHYMO-NOV13C-Output

23.000 5.000 14.9 11.000 9.9 17.000 2.1
1.0

RUNOFF VOLUME = .98502 INCHES = 17.2175 ACRE-FEET
PEAK DISCHARGE RATE = 71.31 CFS AT 1.500 HOURS BASIN AREA =
.3277 SQ. MI.

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DIVIDE HYD ID=67 Q=11.07 ID I=61 HYD NO=BYPASS.AD1

ID II=62 HYD NO=SURGE.D1

PRINT HYD ID=61 CODE=10

HYDROGRAPH FROM AREA BYPASS.AD1

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
18.000	.000 1.6	.0	24.000	6.000 1.0	12.000	8.9
19.000	1.000 1.4	.0	25.000	7.000 .0	13.000	7.5
20.000	2.000 1.2	11.1		8.000 11.1	14.000	5.8
21.000	3.000 1.1	11.1		9.000 11.1	15.000	4.7
22.000	4.000 1.1	11.1		10.000 11.0	16.000	3.1
23.000	5.000 1.0	11.1		11.000 9.9	17.000	2.1

RUNOFF VOLUME = .98502 INCHES = 12.7010 ACRE-FEET
PEAK DISCHARGE RATE = 11.07 CFS AT 1.200 HOURS BASIN AREA =
.2418 SQ. MI.

PRINT HYD ID=62 CODE=10

HYDROGRAPH FROM AREA SURGE.D1

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
6.000	.000 3.9	.0	8.000	2.000 3.7	4.000	3.8
7.000	1.000 3.9	.0	9.000	3.000 1.1	5.000	3.8

AHYMO-N0V13C-Output

RUNOFF VOLUME = .98502 INCHES = 4.5165 ACRE-FEET
 PEAK DISCHARGE RATE = 60.24 CFS AT 1.500 HOURS BASIN AREA =
 .0860 SQ. MI.

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ROUTE RESERVOIR ID=68 HYD=POND.D1 INFLOW ID=62 CODE=6.3

OUTFLOW		STORAGE	DEPTH
0		0	5471
5.20	2.47		5472
6.60	3.52		5473
7.90	4.72		5474
18.0	6.06		5475

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5471.00	.000	.00
.60	.00	5471.00	.000	.00
1.20	2.03	5471.00	.008	.02
1.80	23.44	5471.69	1.696	3.57
2.40	5.80	5471.86	2.120	4.46
3.00	4.16	5471.86	2.132	4.49
3.60	3.89	5471.85	2.108	4.44
4.20	3.83	5471.84	2.081	4.38
4.80	3.84	5471.83	2.055	4.33
5.40	3.86	5471.82	2.032	4.28
6.00	3.89	5471.82	2.014	4.24
6.60	3.90	5471.81	1.998	4.21
7.20	3.83	5471.80	1.982	4.17
7.80	3.73	5471.79	1.963	4.13
8.40	3.58	5471.79	1.941	4.09
9.00	1.10	5471.75	1.855	3.90
9.60	.37	5471.69	1.704	3.59
10.20	.00	5471.62	1.540	3.24
10.80	.00	5471.56	1.387	2.92
11.40	.00	5471.51	1.250	2.63
12.00	.00	5471.46	1.126	2.37
12.60	.00	5471.41	1.014	2.14
13.20	.00	5471.37	.914	1.92
13.80	.00	5471.33	.823	1.73
14.40	.00	5471.30	.742	1.56
15.00	.00	5471.27	.668	1.41
15.60	.00	5471.24	.602	1.27
16.20	.00	5471.22	.542	1.14
16.80	.00	5471.20	.488	1.03

AHYMO-NOV13C-Output

17.40	.00	5471.18	.440	.93
18.00	.00	5471.16	.396	.83
18.60	.00	5471.14	.357	.75
19.20	.00	5471.13	.322	.68
19.80	.00	5471.12	.290	.61
20.40	.00	5471.11	.261	.55
21.00	.00	5471.10	.235	.50
21.60	.00	5471.09	.212	.45
22.20	.00	5471.08	.191	.40
22.80	.00	5471.07	.172	.36
23.40	.00	5471.06	.155	.33
24.00	.00	5471.06	.140	.29
24.60	.00	5471.05	.126	.26
25.20	.00	5471.05	.113	.24
25.80	.00	5471.04	.102	.21
26.40	.00	5471.04	.092	.19
27.00	.00	5471.03	.083	.17
27.60	.00	5471.03	.075	.16
28.20	.00	5471.03	.067	.14
28.80	.00	5471.02	.061	.13
29.40	.00	5471.02	.055	.11
30.00	.00	5471.02	.049	.10
30.60	.00	5471.02	.044	.09
31.20	.00	5471.02	.040	.08
31.80	.00	5471.01	.036	.08
32.40	.00	5471.01	.032	.07
33.00	.00	5471.01	.029	.06

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
33.60	.00	5471.01	.026	.06
34.20	.00	5471.01	.024	.05
34.80	.00	5471.01	.021	.04
35.40	.00	5471.01	.019	.04
36.00	.00	5471.01	.017	.04
36.60	.00	5471.01	.016	.03
37.20	.00	5471.01	.014	.03
37.80	.00	5471.00	.013	.03
38.40	.00	5471.00	.011	.02
39.00	.00	5471.00	.010	.02
39.60	.00	5471.00	.009	.02
40.20	.00	5471.00	.008	.02
40.80	.00	5471.00	.008	.02
41.40	.00	5471.00	.007	.01
42.00	.00	5471.00	.006	.01
42.60	.00	5471.00	.005	.01
43.20	.00	5471.00	.005	.01
43.80	.00	5471.00	.004	.01
44.40	.00	5471.00	.004	.01
45.00	.00	5471.00	.004	.01
45.60	.00	5471.00	.003	.01
46.20	.00	5471.00	.003	.01
46.80	.00	5471.00	.003	.01
47.40	.00	5471.00	.002	.01
48.00	.00	5471.00	.002	.00

PEAK DISCHARGE = 4.495 CFS - PEAK OCCURS AT HOUR 2.70

MAXIMUM WATER SURFACE ELEVATION = 5471.864

MAXIMUM STORAGE = 2.1353 AC-FT INCREMENTAL TIME= .300000HRS

PRINT HYD

ID=68 CODE=10

AHYMO-N0V13C-Output
HYDROGRAPH FROM AREA POND.D1

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	
	.000	.0		12.000	2.4	24.000	.3
36.000	.0		48.000	.0		27.000	.2
	3.000	4.5		15.000	1.4		
39.000	.0		51.000	.0		30.000	.1
	6.000	4.2		18.000	.8		
42.000	.0		54.000	.0		33.000	.1
	9.000	3.9		21.000	.5		
45.000	.0						

RUNOFF VOLUME = .98529 INCHES = 4.5177 ACRE-FEET
 PEAK DISCHARGE RATE = 4.50 CFS AT 2.700 HOURS BASIN AREA =
 .0860 SQ. MI.

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ADD HYD

ID=67 HYD=TOTALD1 ID I=61 II=68

PRINT HYD

ID=67 CODE=10

HYDROGRAPH FROM AREA TOTALD1

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	
	.000	.0		12.000	11.2	24.000	1.3
36.000	.0		48.000	.0		25.000	.3
	1.000	.0		13.000	9.5		
37.000	.0		49.000	.0		26.000	.2
	2.000	15.1		14.000	7.5		
38.000	.0		50.000	.0		27.000	.2
	3.000	15.6		15.000	6.1		
39.000	.0		51.000	.0		28.000	.1
	4.000	15.5		16.000	4.3		
40.000	.0		52.000	.0		29.000	.1
	5.000	15.4		17.000	3.1		
41.000	.0		53.000	.0		30.000	.1
	6.000	15.3		18.000	2.5		
42.000	.0		54.000	.0		31.000	.1
	7.000	15.3		19.000	2.1		
43.000	.0		55.000	.0		32.000	.1
	8.000	15.2		20.000	1.8		
44.000	.0		56.000	.0		33.000	.1
	9.000	15.0		21.000	1.6		
45.000	.0					34.000	.1
	10.000	14.4		22.000	1.5		
46.000	.0					35.000	.0
	11.000	12.8		23.000	1.4		
47.000	.0						

AHYMO-NOV13C-Output
 RUNOFF VOLUME = .98506 INCHES = 17.2182 ACRE-FEET
 PEAK DISCHARGE RATE = 15.57 CFS AT 2.700 HOURS BASIN AREA =
 .3277 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.018

DIA=2.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE ELEV	FLOW AREA SQ FT	1.0 FLOW RATE CFS	
.00	.00	.00	.00	FT
.89	.10	.06	.16	
1.22	.21	.17	.69	
1.45	.31	.31	1.61	
1.62	.42	.47	2.89	
1.76	.52	.65	4.51	
1.85	.63	.84	6.44	
1.93	.73	1.04	8.62	
1.97	.83	1.24	11.03	
2.00	.94	1.45	13.59	
2.00	1.04	1.66	16.27	
2.00	1.15	1.86	18.99	
2.00	1.25	2.07	21.70	
2.00	1.35	2.27	24.32	
2.00	1.46	2.46	26.78	
2.00	1.56	2.63	28.98	
2.00	1.67	2.80	30.80	
2.00	1.77	2.94	32.11	
2.00	1.88	3.06	32.65	
2.00	2.00	3.14	32.65	

ROUTE MCUNGE

ID=69 HYD=RTE.D1 INFLOW ID=67

DT=0.0 L=1470 NS=0 SLOPE=0.018

AHYMO-N0V13C-Output

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 565

DT= .100000

WIDTH MED= 1.90

TABLE PTS= 19

QMED= 7.78

NREACH= 1

CKMED= 11.0919

DX= 1470.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.218	.0	4.08	1.20	1.000	.000	1.000
.014	.10	.1	.2	.160	.9	4.19	2.55	1.027	.002	.998
.174	.21	.2	.7	.103	1.2	5.79	3.98	1.418	.004	.997
.286	.31	.3	1.6	.080	1.5	7.33	5.12	1.795	.006	.996
.359	.42	.5	2.9	.067	1.6	8.63	6.09	2.113	.008	.995
.411	.52	.7	4.5	.059	1.8	9.73	6.93	2.384	.010	.994
.448	.63	.8	6.4	.053	1.9	10.67	7.67	2.614	.012	.993
.477	.73	1.0	8.6	.049	1.9	11.46	8.32	2.808	.015	.992
.498	.83	1.2	11.0	.046	2.0	12.11	8.89	2.966	.017	.991
.514	.94	1.4	13.6	.043	2.0	12.62	9.40	3.091	.020	.990
.524	1.04	1.7	16.3	.042	2.0	12.97	9.83	3.177	.024	.989
.527	1.15	1.9	19.0	.040	2.0	13.06	10.20	3.198	.027	.987
.520	1.25	2.1	21.7	.039	2.0	12.81	10.50	3.138	.032	.985
.503	1.35	2.3	24.3	.038	2.0	12.21	10.74	2.990	.038	.981
.472	1.46	2.5	26.8	.037	2.0	11.19	10.90	2.740	.045	.976
.416	1.56	2.6	29.0	.037	2.0	9.68	11.00	2.371	.057	.967
.316	1.67	2.8	30.8	.037	2.0	7.54	11.01	1.846	.077	.947
.099	1.77	2.9	32.1	.037	2.0	4.41	10.91	1.081	.137	.876
.000	1.88	3.1	32.6	.038	2.0	3.33	10.67	.815	.185	.815
	.185	32.4	.845	.049	.106					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 3 TIMES.

AVERAGE NUMBER ITERATIONS = 1.2115

Equations solved using the Ponce correction to C2

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PRINT HYD

ID=69 CODE=0

HYDROGRAPH FROM AREA RTE.D1

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
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AHYMO-NØV13C-Output								
	HRS	CFS		HRS	CFS		HRS	CFS
HRS	CFS		HRS	CFS				
	.000	.0		11.400	12.2		22.800	1.4
34.200	.1		45.600	.0				
	.100	.0		11.500	12.0		22.900	1.4
34.300	.0		45.700	.0				
	.200	.0		11.600	11.9		23.000	1.4
34.400	.0		45.800	.0				
	.300	.0		11.700	11.7		23.100	1.4
34.500	.0		45.900	.0				
	.400	.0		11.800	11.6		23.200	1.4
34.600	.0		46.000	.0				
	.500	.0		11.900	11.4		23.300	1.4
34.700	.0		46.100	.0				
	.600	.0		12.000	11.3		23.400	1.3
34.800	.0		46.200	.0				
	.700	.0		12.100	11.1		23.500	1.3
34.900	.0		46.300	.0				
	.800	.0		12.200	11.0		23.600	1.3
35.000	.0		46.400	.0				
	.900	.0		12.300	10.9		23.700	1.3
35.100	.0		46.500	.0				
	1.000	.0		12.400	10.7		23.800	1.3
35.200	.0		46.600	.0				
	1.100	.0		12.500	10.6		23.900	1.3
35.300	.0		46.700	.0				
	1.200	5.3		12.600	10.4		24.000	1.3
35.400	.0		46.800	.0				
	1.300	14.2		12.700	10.3		24.100	1.2
35.500	.0		46.900	.0				
	1.400	10.7		12.800	10.1		24.200	.9
35.600	.0		47.000	.0				
	1.500	13.3		12.900	9.8		24.300	.6
35.700	.0		47.100	.0				
	1.600	12.9		13.000	9.6		24.400	.4
35.800	.0		47.200	.0				
	1.700	14.0		13.100	9.4		24.500	.4
35.900	.0		47.300	.0				
	1.800	14.4		13.200	9.1		24.600	.3
36.000	.0		47.400	.0				
	1.900	14.9		13.300	8.9		24.700	.3
36.100	.0		47.500	.0				
	2.000	15.0		13.400	8.7		24.800	.3
36.200	.0		47.600	.0				
	2.100	15.3		13.500	8.5		24.900	.3
36.300	.0		47.700	.0				
	2.200	15.4		13.600	8.3		25.000	.3
36.400	.0		47.800	.0				
	2.300	15.4		13.700	8.1		25.100	.3
36.500	.0		47.900	.0				
	2.400	15.5		13.800	7.9		25.200	.2
36.600	.0		48.000	.0				
	2.500	15.5		13.900	7.7		25.300	.2
36.700	.0		48.100	.0				
	2.600	15.5		14.000	7.6		25.400	.2
36.800	.0		48.200	.0				
	2.700	15.6		14.100	7.4		25.500	.2
36.900	.0		48.300	.0				
	2.800	15.6		14.200	7.2		25.600	.2
37.000	.0		48.400	.0				
	2.900	15.6		14.300	7.1		25.700	.2
37.100	.0		48.500	.0				
	3.000	15.6		14.400	7.0		25.800	.2

AHYMO-NOV13C-Output

37.200	.0	48.600	.0			
	3.100	15.6	14.500	6.8	25.900	.2
37.300	.0	48.700	.0			
	3.200	15.5	14.600	6.7	26.000	.2
37.400	.0	48.800	.0			
	3.300	15.5	14.700	6.6	26.100	.2
37.500	.0	48.900	.0			
	3.400	15.5	14.800	6.4	26.200	.2
37.600	.0	49.000	.0			
	3.500	15.5	14.900	6.3	26.300	.2
37.700	.0	49.100	.0			
	3.600	15.5	15.000	6.2	26.400	.2
37.800	.0	49.200	.0			
	3.700	15.5	15.100	6.1	26.500	.2
37.900	.0	49.300	.0			
	3.800	15.5	15.200	6.0	26.600	.2
38.000	.0	49.400	.0			
	3.900	15.5	15.300	5.8	26.700	.2
38.100	.0	49.500	.0			
	4.000	15.5	15.400	5.5	26.800	.2
38.200	.0	49.600	.0			
	4.100	15.5	15.500	5.3	26.900	.2
38.300	.0	49.700	.0			
	4.200	15.5	15.600	5.0	27.000	.2
38.400	.0	49.800	.0			
	4.300	15.4	15.700	4.9	27.100	.2
38.500	.0	49.900	.0			
	4.400	15.4	15.800	4.7	27.200	.2
38.600	.0	50.000	.0			
	4.500	15.4	15.900	4.5	27.300	.2
38.700	.0	50.100	.0			
	4.600	15.4	16.000	4.3	27.400	.2
38.800	.0	50.200	.0			
	4.700	15.4	16.100	4.2	27.500	.2
38.900	.0	50.300	.0			
	4.800	15.4	16.200	4.0	27.600	.2
39.000	.0	50.400	.0			
	4.900	15.4	16.300	3.9	27.700	.2
39.100	.0	50.500	.0			
	5.000	15.4	16.400	3.8	27.800	.2
39.200	.0	50.600	.0			
	5.100	15.4	16.500	3.7	27.900	.2
39.300	.0	50.700	.0			
	5.200	15.4	16.600	3.6	28.000	.1
39.400	.0	50.800	.0			
	5.300	15.4	16.700	3.4	28.100	.1
39.500	.0	50.900	.0			
	5.400	15.4	16.800	3.3	28.200	.1
39.600	.0	51.000	.0			
	5.500	15.3	16.900	3.2	28.300	.1
39.700	.0	51.100	.0			
	5.600	15.3	17.000	3.2	28.400	.1
39.800	.0	51.200	.0			
	5.700	15.3	17.100	3.1	28.500	.1
39.900	.0	51.300	.0			
	5.800	15.3	17.200	3.0	28.600	.1
40.000	.0	51.400	.0			
	5.900	15.3	17.300	2.9	28.700	.1
40.100	.0	51.500	.0			
	6.000	15.3	17.400	2.8	28.800	.1
40.200	.0	51.600	.0			
	6.100	15.3	17.500	2.8	28.900	.1
40.300	.0	51.700	.0			

			AHYMO-NOV13C-Output			
	6.200	15.3	17.600	2.7	29.000	.1
40.400	.0	51.800	.0			
	6.300	15.3	17.700	2.7	29.100	.1
40.500	.0	51.900	.0			
	6.400	15.3	17.800	2.6	29.200	.1
40.600	.0	52.000	.0			
	6.500	15.3	17.900	2.5	29.300	.1
40.700	.0	52.100	.0			
	6.600	15.3	18.000	2.5	29.400	.1
40.800	.0	52.200	.0			
	6.700	15.3	18.100	2.4	29.500	.1
40.900	.0	52.300	.0			
	6.800	15.3	18.200	2.4	29.600	.1
41.000	.0	52.400	.0			
	6.900	15.3	18.300	2.3	29.700	.1
41.100	.0	52.500	.0			
	7.000	15.3	18.400	2.3	29.800	.1
41.200	.0	52.600	.0			
	7.100	15.2	18.500	2.3	29.900	.1
41.300	.0	52.700	.0			
	7.200	15.2	18.600	2.2	30.000	.1
41.400	.0	52.800	.0			
	7.300	15.2	18.700	2.2	30.100	.1
41.500	.0	52.900	.0			
	7.400	15.2	18.800	2.1	30.200	.1
41.600	.0	53.000	.0			
	7.500	15.2	18.900	2.1	30.300	.1
41.700	.0	53.100	.0			
	7.600	15.2	19.000	2.1	30.400	.1
41.800	.0	53.200	.0			
	7.700	15.2	19.100	2.1	30.500	.1
41.900	.0	53.300	.0			
	7.800	15.2	19.200	2.0	30.600	.1
42.000	.0	53.400	.0			
	7.900	15.2	19.300	2.0	30.700	.1
42.100	.0	53.500	.0			
	8.000	15.2	19.400	2.0	30.800	.1
42.200	.0	53.600	.0			
	8.100	15.2	19.500	1.9	30.900	.1
42.300	.0	53.700	.0			
	8.200	15.2	19.600	1.9	31.000	.1
42.400	.0	53.800	.0			
	8.300	15.2	19.700	1.9	31.100	.1
42.500	.0	53.900	.0			
	8.400	15.2	19.800	1.9	31.200	.1
42.600	.0	54.000	.0			
	8.500	15.1	19.900	1.8	31.300	.1
42.700	.0	54.100	.0			
	8.600	15.1	20.000	1.8	31.400	.1
42.800	.0	54.200	.0			
	8.700	15.1	20.100	1.8	31.500	.1
42.900	.0	54.300	.0			
	8.800	15.1	20.200	1.8	31.600	.1
43.000	.0	54.400	.0			
	8.900	15.0	20.300	1.8	31.700	.1
43.100	.0	54.500	.0			
	9.000	15.0	20.400	1.7	31.800	.1
43.200	.0	54.600	.0			
	9.100	14.9	20.500	1.7	31.900	.1
43.300	.0	54.700	.0			
	9.200	14.9	20.600	1.7	32.000	.1
43.400	.0	54.800	.0			
	9.300	14.8	20.700	1.7	32.100	.1

AHYMO-NOV13C-Output

43.500	.0	54.900	.0			
	9.400	14.8	20.800	1.7	32.200	.1
43.600	.0	55.000	.0			
	9.500	14.7	20.900	1.6	32.300	.1
43.700	.0	55.100	.0			
	9.600	14.7	21.000	1.6	32.400	.1
43.800	.0	55.200	.0			
	9.700	14.6	21.100	1.6	32.500	.1
43.900	.0	55.300	.0			
	9.800	14.6	21.200	1.6	32.600	.1
44.000	.0	55.400	.0			
	9.900	14.5	21.300	1.6	32.700	.1
44.100	.0	55.500	.0			
	10.000	14.4	21.400	1.6	32.800	.1
44.200	.0	55.600	.0			
	10.100	14.3	21.500	1.6	32.900	.1
44.300	.0	55.700	.0			
	10.200	14.1	21.600	1.5	33.000	.1
44.400	.0	55.800	.0			
	10.300	13.9	21.700	1.5	33.100	.1
44.500	.0	55.900	.0			
	10.400	13.8	21.800	1.5	33.200	.1
44.600	.0	56.000	.0			
	10.500	13.6	21.900	1.5	33.300	.1
44.700	.0	56.100	.0			
	10.600	13.4	22.000	1.5	33.400	.1
44.800	.0	56.200	.0			
	10.700	13.3	22.100	1.5	33.500	.1
44.900	.0	56.300	.0			
	10.800	13.1	22.200	1.5	33.600	.1
45.000	.0	56.400	.0			
	10.900	13.0	22.300	1.5	33.700	.1
45.100	.0	56.500	.0			
	11.000	12.8	22.400	1.4	33.800	.1
45.200	.0					
	11.100	12.7	22.500	1.4	33.900	.1
45.300	.0					
	11.200	12.5	22.600	1.4	34.000	.1
45.400	.0					
	11.300	12.3	22.700	1.4	34.100	.1
45.500	.0					

RUNOFF VOLUME = .98519 INCHES = 17.2205 ACRE-FEET
 PEAK DISCHARGE RATE = 15.57 CFS AT 2.800 HOURS BASIN AREA =
 .3277 SQ. MI.

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*****HERITAGE UNIT 1*****

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COMPUTE NM HYD ID=25 HYD NO=BASIN.D2 DA=.03456 SQ MI

%A=0 %B=28.5 %C=28.5 %D=43.0

TP=-.133 HR RAIN=-1

AHYMO-NOV13C-Output

CONSTANT, K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 N = 7.106420
 UNIT PEAK = 58.804 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .014861 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

CONSTANT, K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 N = 3.989065
 UNIT PEAK = 52.498 CFS UNIT VOLUME = 1.007 B = 354.44
 P60 = 1.8400
 AREA = .019699 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=25 CODE=10

HYDROGRAPH FROM AREA BASIN.D2

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
15.000	.000	.0	20.000	.2	.3	10.000	.3
16.000	1.000	.0	21.000	.2	.3	11.000	.3
17.000	.2	12.0	22.000	.2	.4	12.000	.3
18.000	2.000	.6	23.000	.2	.3	13.000	.3
19.000	.2	.3	24.000	.2	.3	14.000	.2

RUNOFF VOLUME = 1.49925 INCHES = 2.7634 ACRE-FEET
 PEAK DISCHARGE RATE = 63.65 CFS AT 1.500 HOURS BASIN AREA =
 .0346 SQ. MI.

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ADD HYD ID=70 HYD=PONDD1.D2 ID I=69 II=25

PRINT HYD ID=70 CODE=10

HYDROGRAPH FROM AREA PONDD1.D2

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
36.000	.000	.0	48.000	.0	11.5	24.000	1.5
	1.000	.0			9.8	25.000	.3

AHYMO-NOV13C-Output

37.000	.0	49.000	.0			
	2.000	27.0	14.000	7.8	26.000	.2
38.000	.0	50.000	.0			
	3.000	16.2	15.000	6.4	27.000	.2
39.000	.0	51.000	.0			
	4.000	15.8	16.000	4.6	28.000	.1
40.000	.0	52.000	.0			
	5.000	15.7	17.000	3.4	29.000	.1
41.000	.0	53.000	.0			
	6.000	15.7	18.000	2.7	30.000	.1
42.000	.0	54.000	.0			
	7.000	15.6	19.000	2.3	31.000	.1
43.000	.0	55.000	.0			
	8.000	15.5	20.000	2.0	32.000	.1
44.000	.0	56.000	.0			
	9.000	15.3	21.000	1.8	33.000	.1
45.000	.0					
	10.000	14.7	22.000	1.7	34.000	.1
46.000	.0					
	11.000	13.1	23.000	1.6	35.000	.0
47.000	.0					

RUNOFF VOLUME = 1.03422 INCHES = 19.9838 ACRE-FEET
 PEAK DISCHARGE RATE = 76.93 CFS AT 1.500 HOURS BASIN AREA =
 .3623 SQ. MI.

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*****UNIVERSE BLVD*****

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COMPUTE NM HYD ID=26 HYD NO=BASIN.D3 DA=.00580 SQ MI

%A=0 %B=5.0 %C=5.0 %D=90.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 20.655 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .005220 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.5457 CFS UNIT VOLUME = .9989 B = 354.44
 P60 = 1.8400
 AREA = .000580 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD

ID=26 CODE=10

AHYMO-N0V13C-Output

HYDROGRAPH FROM AREA BASIN.D3

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		5.000	.1	10.000	.1
15.000	.1	.0	20.000	.1	.1	11.000	.1
16.000	.1	.0	21.000	.1	.1	12.000	.1
17.000	.1	3.4	22.000	.1	.1	13.000	.1
18.000	.1	.2	23.000	.1	.1	14.000	.1
19.000	.1	.1	24.000	.1	.1		

RUNOFF VOLUME = 2.26512 INCHES = .7007 ACRE-FEET
 PEAK DISCHARGE RATE = 13.18 CFS AT 1.500 HOURS BASIN AREA =
 .0058 SQ. MI.

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ADD HYD

ID=71 HYD=D1.D2.D3 ID I=70 II=26

PRINT HYD

ID=71 CODE=10

HYDROGRAPH FROM AREA D1.D2.D3

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		12.000	11.6	24.000	1.5
36.000	.0	.0	48.000	.0	9.9	25.000	.3
37.000	.0	.0	49.000	.0	7.9	26.000	.2
38.000	.0	30.4	50.000	.0	6.5	27.000	.2
39.000	.0	16.4	51.000	.0	4.6	28.000	.1
40.000	.0	15.9	52.000	.0	3.4	29.000	.1
41.000	.0	15.8	53.000	.0	2.8	30.000	.1
42.000	.0	15.8	54.000	.0	2.4	31.000	.1
43.000	.0	15.7	55.000	.0	2.1	32.000	.1
44.000	.0	15.6	56.000	.0	1.9	33.000	.1
45.000	.0	15.4		21.000	1.7	34.000	.1
46.000	.0	14.8		22.000	1.6	35.000	.0
	11.000	13.2		23.000			

AHYMO-N0V13C-Output

47.000 .0

RUNOFF VOLUME = 1.05362 INCHES = 20.6845 ACRE-FeET
 PEAK DISCHARGE RATE = 90.11 CFS AT 1.500 HOURS BASIN AREA =
 .3681 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.02

DIA=4.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE	FLOW AREA	1.0 FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
1.78	.21	.25	1.07	
2.44	.42	.69	4.63	
2.91	.63	1.25	10.75	
3.25	.83	1.90	19.34	
3.51	1.04	2.60	30.20	
3.71	1.25	3.36	43.09	
3.85	1.46	4.15	57.73	
3.94	1.67	4.96	73.80	
3.99	1.88	5.79	90.98	
4.00	2.08	6.62	108.89	
4.00	2.29	7.45	127.12	
4.00	2.50	8.27	145.25	
4.00	2.71	9.06	162.80	
4.00	2.92	9.82	179.23	
4.00	3.13	10.54	193.93	
4.00	3.34	11.20	206.17	
4.00	3.54	11.77	214.92	
4.00	3.75	12.24	218.52	
4.00	4.00	12.57	218.52	

ROUTE MCUNGE

ID=72 HYD=RTE.D1 INFLOW ID=71

AHYMO-N0V13C-Output

DT=0.0 L=1150 NS=0 SLOPE=0.02

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

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PRINT HYD

ID=72 CODE=0

HYDROGRAPH FROM AREA RTE.D1

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0		11.400	12.5	22.800	1.6
34.200	.1	.0	45.600	.0			
	.100	.0		11.500	12.4	22.900	1.6
34.300	.0	.0	45.700	.0			
	.200	.0		11.600	12.2	23.000	1.6
34.400	.0	.0	45.800	.0			
	.300	.0		11.700	12.1	23.100	1.6
34.500	.0	.0	45.900	.0			
	.400	.0		11.800	11.9	23.200	1.6
34.600	.0	.0	46.000	.0			
	.500	.0		11.900	11.8	23.300	1.6
34.700	.0	.0	46.100	.0			
	.600	.0		12.000	11.6	23.400	1.6
34.800	.0	.0	46.200	.0			
	.700	.0		12.100	11.5	23.500	1.6
34.900	.0	.0	46.300	.0			
	.800	.0		12.200	11.3	23.600	1.5
35.000	.0	.0	46.400	.0			
	.900	.0		12.300	11.2	23.700	1.5
35.100	.0	.0	46.500	.0			
	1.000	.0		12.400	11.1	23.800	1.5
35.200	.0	.0	46.600	.0			
	1.100	.4		12.500	10.9	23.900	1.5
35.300	.0	.0	46.700	.0			
	1.200	10.4		12.600	10.8	24.000	1.5
35.400	.0	.0	46.800	.0			
	1.300	33.9		12.700	10.6	24.100	1.3
35.500	.0	.0	46.900	.0			
	1.400	76.1		12.800	10.4	24.200	.9
35.600	.0	.0	47.000	.0			
	1.500	90.1		12.900	10.2	24.300	.6
35.700	.0	.0	47.100	.0			
	1.600	66.3		13.000	9.9	24.400	.4
35.800	.0	.0	47.200	.0			
	1.700	48.7		13.100	9.7	24.500	.4
35.900	.0	.0	47.300	.0			
	1.800	39.5		13.200	9.5	24.600	.3
36.000	.0	.0	47.400	.0			
	1.900	34.2		13.300	9.3	24.700	.3
36.100	.0	.0	47.500	.0			
	2.000	30.4		13.400	9.1	24.800	.3
36.200	.0	.0	47.600	.0			
	2.100	24.8		13.500	8.8	24.900	.3
36.300	.0	.0	47.700	.0			
	2.200	20.9		13.600	8.6	25.000	.3

AHYMO-NOV13C-Output

36.400	.0	47.800	.0			
	2.300	19.4	13.700	8.4	25.100	.3
36.500	.0	47.900	.0			
	2.400	18.5	13.800	8.3	25.200	.2
36.600	.0	48.000	.0			
	2.500	17.8	13.900	8.1	25.300	.2
36.700	.0	48.100	.0			
	2.600	17.3	14.000	7.9	25.400	.2
36.800	.0	48.200	.0			
	2.700	17.0	14.100	7.7	25.500	.2
36.900	.0	48.300	.0			
	2.800	16.7	14.200	7.6	25.600	.2
37.000	.0	48.400	.0			
	2.900	16.5	14.300	7.4	25.700	.2
37.100	.0	48.500	.0			
	3.000	16.4	14.400	7.3	25.800	.2
37.200	.0	48.600	.0			
	3.100	16.3	14.500	7.1	25.900	.2
37.300	.0	48.700	.0			
	3.200	16.2	14.600	7.0	26.000	.2
37.400	.0	48.800	.0			
	3.300	16.1	14.700	6.9	26.100	.2
37.500	.0	48.900	.0			
	3.400	16.1	14.800	6.7	26.200	.2
37.600	.0	49.000	.0			
	3.500	16.0	14.900	6.6	26.300	.2
37.700	.0	49.100	.0			
	3.600	16.0	15.000	6.5	26.400	.2
37.800	.0	49.200	.0			
	3.700	15.9	15.100	6.4	26.500	.2
37.900	.0	49.300	.0			
	3.800	15.9	15.200	6.3	26.600	.2
38.000	.0	49.400	.0			
	3.900	15.9	15.300	6.1	26.700	.2
38.100	.0	49.500	.0			
	4.000	15.9	15.400	5.8	26.800	.2
38.200	.0	49.600	.0			
	4.100	15.9	15.500	5.6	26.900	.2
38.300	.0	49.700	.0			
	4.200	15.8	15.600	5.4	27.000	.2
38.400	.0	49.800	.0			
	4.300	15.8	15.700	5.2	27.100	.2
38.500	.0	49.900	.0			
	4.400	15.8	15.800	5.0	27.200	.2
38.600	.0	50.000	.0			
	4.500	15.8	15.900	4.8	27.300	.2
38.700	.0	50.100	.0			
	4.600	15.8	16.000	4.6	27.400	.2
38.800	.0	50.200	.0			
	4.700	15.8	16.100	4.5	27.500	.2
38.900	.0	50.300	.0			
	4.800	15.8	16.200	4.3	27.600	.2
39.000	.0	50.400	.0			
	4.900	15.8	16.300	4.2	27.700	.2
39.100	.0	50.500	.0			
	5.000	15.8	16.400	4.1	27.800	.2
39.200	.0	50.600	.0			
	5.100	15.8	16.500	4.0	27.900	.2
39.300	.0	50.700	.0			
	5.200	15.8	16.600	3.8	28.000	.1
39.400	.0	50.800	.0			
	5.300	15.8	16.700	3.7	28.100	.1
39.500	.0	50.900	.0			

			AHYMO-NOV13C-Output			
	5.400	15.8	16.800	3.6	28.200	.1
39.600	.0	51.000	.0			
	5.500	15.8	16.900	3.5	28.300	.1
39.700	.0	51.100	.0			
	5.600	15.8	17.000	3.4	28.400	.1
39.800	.0	51.200	.0			
	5.700	15.8	17.100	3.4	28.500	.1
39.900	.0	51.300	.0			
	5.800	15.8	17.200	3.3	28.600	.1
40.000	.0	51.400	.0			
	5.900	15.8	17.300	3.2	28.700	.1
40.100	.0	51.500	.0			
	6.000	15.8	17.400	3.1	28.800	.1
40.200	.0	51.600	.0			
	6.100	15.8	17.500	3.1	28.900	.1
40.300	.0	51.700	.0			
	6.200	15.8	17.600	3.0	29.000	.1
40.400	.0	51.800	.0			
	6.300	15.8	17.700	2.9	29.100	.1
40.500	.0	51.900	.0			
	6.400	15.8	17.800	2.9	29.200	.1
40.600	.0	52.000	.0			
	6.500	15.8	17.900	2.8	29.300	.1
40.700	.0	52.100	.0			
	6.600	15.8	18.000	2.8	29.400	.1
40.800	.0	52.200	.0			
	6.700	15.8	18.100	2.7	29.500	.1
40.900	.0	52.300	.0			
	6.800	15.7	18.200	2.7	29.600	.1
41.000	.0	52.400	.0			
	6.900	15.7	18.300	2.6	29.700	.1
41.100	.0	52.500	.0			
	7.000	15.7	18.400	2.6	29.800	.1
41.200	.0	52.600	.0			
	7.100	15.7	18.500	2.5	29.900	.1
41.300	.0	52.700	.0			
	7.200	15.7	18.600	2.5	30.000	.1
41.400	.0	52.800	.0			
	7.300	15.7	18.700	2.5	30.100	.1
41.500	.0	52.900	.0			
	7.400	15.7	18.800	2.4	30.200	.1
41.600	.0	53.000	.0			
	7.500	15.7	18.900	2.4	30.300	.1
41.700	.0	53.100	.0			
	7.600	15.7	19.000	2.4	30.400	.1
41.800	.0	53.200	.0			
	7.700	15.7	19.100	2.3	30.500	.1
41.900	.0	53.300	.0			
	7.800	15.7	19.200	2.3	30.600	.1
42.000	.0	53.400	.0			
	7.900	15.7	19.300	2.3	30.700	.1
42.100	.0	53.500	.0			
	8.000	15.6	19.400	2.2	30.800	.1
42.200	.0	53.600	.0			
	8.100	15.6	19.500	2.2	30.900	.1
42.300	.0	53.700	.0			
	8.200	15.6	19.600	2.2	31.000	.1
42.400	.0	53.800	.0			
	8.300	15.6	19.700	2.2	31.100	.1
42.500	.0	53.900	.0			
	8.400	15.6	19.800	2.1	31.200	.1
42.600	.0	54.000	.0			
	8.500	15.6	19.900	2.1	31.300	.1

AHYMO-NOV13C-Output

42.700	.0	54.100	.0			
	8.600	15.6	20.000	2.1	31.400	.1
42.800	.0	54.200	.0			
	8.700	15.5	20.100	2.0	31.500	.1
42.900	.0	54.300	.0			
	8.800	15.5	20.200	2.0	31.600	.1
43.000	.0	54.400	.0			
	8.900	15.5	20.300	2.0	31.700	.1
43.100	.0	54.500	.0			
	9.000	15.4	20.400	2.0	31.800	.1
43.200	.0	54.600	.0			
	9.100	15.4	20.500	2.0	31.900	.1
43.300	.0	54.700	.0			
	9.200	15.3	20.600	2.0	32.000	.1
43.400	.0	54.800	.0			
	9.300	15.3	20.700	1.9	32.100	.1
43.500	.0	54.900	.0			
	9.400	15.2	20.800	1.9	32.200	.1
43.600	.0	55.000	.0			
	9.500	15.1	20.900	1.9	32.300	.1
43.700	.0	55.100	.0			
	9.600	15.1	21.000	1.9	32.400	.1
43.800	.0	55.200	.0			
	9.700	15.0	21.100	1.9	32.500	.1
43.900	.0	55.300	.0			
	9.800	15.0	21.200	1.9	32.600	.1
44.000	.0	55.400	.0			
	9.900	14.9	21.300	1.8	32.700	.1
44.100	.0	55.500	.0			
	10.000	14.8	21.400	1.8	32.800	.1
44.200	.0	55.600	.0			
	10.100	14.7	21.500	1.8	32.900	.1
44.300	.0	55.700	.0			
	10.200	14.5	21.600	1.8	33.000	.1
44.400	.0	55.800	.0			
	10.300	14.3	21.700	1.8	33.100	.1
44.500	.0	55.900	.0			
	10.400	14.2	21.800	1.8	33.200	.1
44.600	.0	56.000	.0			
	10.500	14.0	21.900	1.7	33.300	.1
44.700	.0	56.100	.0			
	10.600	13.8	22.000	1.7	33.400	.1
44.800	.0	56.200	.0			
	10.700	13.6	22.100	1.7	33.500	.1
44.900	.0	56.300	.0			
	10.800	13.5	22.200	1.7	33.600	.1
45.000	.0	56.400	.0			
	10.900	13.3	22.300	1.7	33.700	.1
45.100	.0	56.500	.0			
	11.000	13.2	22.400	1.7	33.800	.1
45.200	.0					
	11.100	13.0	22.500	1.7	33.900	.1
45.300	.0					
	11.200	12.9	22.600	1.7	34.000	.1
45.400	.0					
	11.300	12.7	22.700	1.7	34.100	.1
45.500	.0					

RUNOFF VOLUME = 1.05362 INCHES = 20.6845 ACRE-FEET
 PEAK DISCHARGE RATE = 90.11 CFS AT 1.500 HOURS BASIN AREA =
 .3681 SQ. MI.

AHYMO-N0V13C-Output

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*****HERITAGE UNIT 2*****

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COMPUTE NM HYD ID=27 HYD N0=BASIN.D4 DA=.01961 SQ MI

%A=0 %B=28.5 %C=28.5 %D=43.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 33.366 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .008432 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 29.788 CFS UNIT VOLUME = 1.007 B = 354.44
 P60 = 1.8400
 AREA = .011178 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=27 CODE=10

HYDROGRAPH FROM AREA BASIN.D4

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	FLOW
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0	5.000	.1	.2	10.000	.2
15.000	.1	.0	20.000	.1	.2	11.000	.2
16.000	.1	.0	21.000	.1	.2	12.000	.2
17.000	.1	6.8	22.000	.1	.2	13.000	.1
18.000	.1	.4	23.000	.1	.2	14.000	.1
19.000	.1	.2	24.000	.1	.2		

RUNOFF VOLUME = 1.49925 INCHES = 1.5680 ACRE-FEET
 PEAK DISCHARGE RATE = 36.12 CFS AT 1.500 HOURS BASIN AREA =
 .0196 SQ. MI.

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AHYMO-N0V13C-Output

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ADD HYD ID=73 HYD=D1D2D3.D4 ID I=72 II=27

PRINT HYD ID=73 CODE=10

HYDROGRAPH FROM AREA D1D2D3.D4

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0	12.000	.0	11.8	24.000	1.6
36.000	.0	.0	13.000	.0	10.1	25.000	.3
37.000	.0	.0	14.000	.0	8.0	26.000	.2
38.000	.0	37.2	15.000	.0	6.6	27.000	.2
39.000	.0	16.7	16.000	.0	4.8	28.000	.1
40.000	.0	16.1	17.000	.0	3.6	29.000	.1
41.000	.0	16.0	18.000	.0	2.9	30.000	.1
42.000	.0	16.0	19.000	.0	2.5	31.000	.1
43.000	.0	15.9	20.000	.0	2.2	32.000	.1
44.000	.0	15.8	21.000	.0	2.0	33.000	.1
45.000	.0	15.6	22.000	.0	1.8	34.000	.1
46.000	.0	15.0	23.000	.0	1.7	35.000	.0
47.000	.0	13.4					

RUNOFF VOLUME = 1.07615 INCHES = 22.2524 ACRE-FEET
 PEAK DISCHARGE RATE = 126.23 CFS AT 1.500 HOURS BASIN AREA =
 .3877 SQ. MI.

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COMPUTE NM HYD ID=28 HYD N0=BASIN.D5 DA=.01367 SQ MI

%A=0 %B=23.0 %C=23.0 %D=54.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 29.209 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .007382 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR

AHYMO-NOV13C-Output

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 16.758 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .006288 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=28 CODE=10

HYDROGRAPH FROM AREA BASIN.D5

TIME	TIME FLOW	FLOW	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS CFS	CFS	HRS	CFS
15.000	.000 .1	.0	5.000 .1	.1	10.000	.1
16.000	1.000 .1	.0	6.000 .1	.2	11.000	.1
17.000	2.000 .1	5.5	7.000 .1	.2	12.000	.1
18.000	3.000 .1	.3	8.000 .1	.2	13.000	.1
19.000	4.000 .1	.1	9.000 .1	.2	14.000	.1
			24.000 .1			

RUNOFF VOLUME = 1.67850 INCHES = 1.2237 ACRE-FEET
 PEAK DISCHARGE RATE = 26.55 CFS AT 1.500 HOURS BASIN AREA = .0137 SQ. MI.

*

ADD HYD ID=74 HYD=D1234.D5 ID I=73 II=28

PRINT HYD ID=74 CODE=10

HYDROGRAPH FROM AREA D1234.D5

TIME	TIME FLOW	FLOW	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS CFS	CFS	HRS	CFS
36.000	.000 .0	.0	12.000 .0	11.9	24.000	1.7
37.000	1.000 .0	.0	13.000 .0	10.2	25.000	.3
38.000	2.000 .0	42.8	14.000 .0	8.2	26.000	.2
39.000	3.000 .0	17.0	15.000 .0	6.7	27.000	.2
	4.000 .0	16.2	16.000 .0	4.9	28.000	.1

AHYMO-NOV13C-Output

40.000	.0	52.000	.0			
	5.000	16.1	17.000	3.7	29.000	.1
41.000	.0	53.000	.0			
	6.000	16.1	18.000	3.0	30.000	.1
42.000	.0	54.000	.0			
	7.000	16.1	19.000	2.6	31.000	.1
43.000	.0	55.000	.0			
	8.000	16.0	20.000	2.3	32.000	.1
44.000	.0	56.000	.0			
	9.000	15.8	21.000	2.1	33.000	.1
45.000	.0					
	10.000	15.1	22.000	1.9	34.000	.1
46.000	.0					
	11.000	13.5	23.000	1.8	35.000	.0
47.000	.0					

RUNOFF VOLUME = 1.09667 INCHES = 23.4762 ACRE-FEET
 PEAK DISCHARGE RATE = 152.79 CFS AT 1.500 HOURS BASIN AREA =
 .4014 SQ. MI.

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COMPUTE NM HYD ID=25 HYD NO=BASIN.D6 DA=.00781 SQ MI

%A=0.0 %B=18.0 %C=18.0 %D=64.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 19.734 CFS UNIT VOLUME = 1.029 B = 526.28
 P60 = 1.8400
 AREA = .004998 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 7.4759 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .002812 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=25 CODE=10

HYDROGRAPH FROM AREA BASIN.D6

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		5.000	.1		10.000
							.1

AHYMO-NOV13C-Output

15.000	.1	20.000	.1		
	1.000	.0	6.000	.1	11.000 .1
16.000	.1	21.000	.1		
	2.000	3.6	7.000	.1	12.000 .1
17.000	.1	22.000	.1		
	3.000	.2	8.000	.1	13.000 .1
18.000	.1	23.000	.1		
	4.000	.1	9.000	.1	14.000 .1
19.000	.1	24.000	.1		

RUNOFF VOLUME = 1.84145 INCHES = .7670 ACRE-FEET
 PEAK DISCHARGE RATE = 15.89 CFS AT 1.500 HOURS BASIN AREA =
 .0078 SQ. MI.

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ADD HYD ID=75 HYD=D12345.D6 ID I=74 II=25
 PRINT HYD ID=75 CODE=10

HYDROGRAPH FROM AREA D12345.D6

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS			
	.000	.0	12.000	.0	12.0	24.000	1.8
36.000	.0	.0	48.000	.0			
	1.000	.0	13.000	.0	10.3	25.000	.3
37.000	.0	.0	49.000	.0			
	2.000	46.3	14.000	.0	8.3	26.000	.2
38.000	.0	.0	50.000	.0			
	3.000	17.2	15.000	.0	6.8	27.000	.2
39.000	.0	.0	51.000	.0			
	4.000	16.3	16.000	.0	5.0	28.000	.1
40.000	.0	.0	52.000	.0			
	5.000	16.2	17.000	.0	3.7	29.000	.1
41.000	.0	.0	53.000	.0			
	6.000	16.3	18.000	.0	3.1	30.000	.1
42.000	.0	.0	54.000	.0			
	7.000	16.2	19.000	.0	2.6	31.000	.1
43.000	.0	.0	55.000	.0			
	8.000	16.1	20.000	.0	2.4	32.000	.1
44.000	.0	.0	56.000	.0			
	9.000	15.9	21.000	.0	2.2	33.000	.1
45.000	.0	.0					
	10.000	15.2	22.000	.0	2.0	34.000	.1
46.000	.0	.0	23.000	.0	1.9	35.000	.0
47.000	.0	.0					

RUNOFF VOLUME = 1.11088 INCHES = 24.2432 ACRE-FEET
 PEAK DISCHARGE RATE = 168.67 CFS AT 1.500 HOURS BASIN AREA =
 .4092 SQ. MI.

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AHYMO-N0V13C-Output

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DIVIDE HYD

ID=75 Q=13.80 ID I=31 HYD N0=BYPASS.D

ID II=32 HYD N0=SURGE.D

PRINT HYD

ID=31 CODE=10

HYDROGRAPH FROM AREA BYPASS.D

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
	.000	.0		12.000	12.0	24.000	1.8
36.000	.0		48.000	.0			
	1.000	.0		13.000	10.3	25.000	.3
37.000	.0		49.000	.0			
	2.000	13.8		14.000	8.3	26.000	.2
38.000	.0		50.000	.0			
	3.000	13.8		15.000	6.8	27.000	.2
39.000	.0		51.000	.0			
	4.000	13.8		16.000	5.0	28.000	.1
40.000	.0		52.000	.0			
	5.000	13.8		17.000	3.7	29.000	.1
41.000	.0		53.000	.0			
	6.000	13.8		18.000	3.1	30.000	.1
42.000	.0		54.000	.0			
	7.000	13.8		19.000	2.6	31.000	.1
43.000	.0		55.000	.0			
	8.000	13.8		20.000	2.4	32.000	.1
44.000	.0		56.000	.0			
	9.000	13.8		21.000	2.2	33.000	.1
45.000	.0						
	10.000	13.8		22.000	2.0	34.000	.1
46.000	.0						
	11.000	13.6		23.000	1.9	35.000	.0
47.000	.0						

RUNOFF VOLUME = 1.11088 INCHES = 17.0021 ACRE-FeET
 PEAK DISCHARGE RATE = 13.80 CFS AT 1.200 HOURS BASIN AREA =
 .2870 SQ. MI.

PRINT HYD

ID=32 CODE=10

HYDROGRAPH FROM AREA SURGE.D

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
	.000	.0		3.000	3.4	6.000	2.5
9.000	2.1						
	1.000	.0		4.000	2.5	7.000	2.4
10.000	1.4						

AHYMO-N0V13C-Output

2.000 32.5 5.000 2.4 8.000 2.3

RUNOFF VOLUME = 1.11088 INCHES = 7.2410 ACRE-FEET
 PEAK DISCHARGE RATE = 154.87 CFS AT 1.500 HOURS BASIN AREA =
 .1222 SQ. MI.

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ROUTE RESERVOIR ID=50 HYD=POND.D INFLOW ID=32 CODE=6.3

OUTFLOW	STORAGE	DEPTH
0	0	5429.46
1.86 0.30		5431
2.96 1.01		5432
3.99 1.91		5433
4.97 2.91		5434
5.89 4.00		5435
6.78 5.17		5436
7.50 6.24		5436.85
130.0 7.80		5438

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5429.46	.000	.00
.60	.00	5429.46	.000	.00
1.20	1.90	5429.50	.008	.05
1.80	51.43	5435.17	4.200	6.04
2.40	7.71	5435.92	5.079	6.71
3.00	3.43	5435.85	4.993	6.65
3.60	2.66	5435.70	4.814	6.51
4.20	2.44	5435.53	4.620	6.36
4.80	2.40	5435.37	4.428	6.22
5.40	2.41	5435.21	4.243	6.07
6.00	2.46	5435.06	4.066	5.94
6.60	2.48	5434.91	3.898	5.80
7.20	2.41	5434.76	3.735	5.67
7.80	2.33	5434.61	3.575	5.53
8.40	2.26	5434.47	3.418	5.40
9.00	2.06	5434.32	3.261	5.27
9.60	1.71	5434.17	3.097	5.13
10.20	1.11	5434.01	2.920	4.98
10.80	.09	5433.80	2.707	4.77
11.40	.00	5433.57	2.477	4.55
12.00	.00	5433.35	2.257	4.33

AHYMO-NOV13C-Output

12.60	.00	5433.14	2.047	4.12
13.20	.00	5432.93	1.847	3.92
13.80	.00	5432.72	1.659	3.70
14.40	.00	5432.52	1.480	3.50
15.00	.00	5432.33	1.311	3.30
15.60	.00	5432.16	1.152	3.12
16.20	.00	5431.99	1.002	2.95
16.80	.00	5431.79	.861	2.73
17.40	.00	5431.61	.731	2.53
18.00	.00	5431.44	.610	2.34
18.60	.00	5431.28	.498	2.17
19.20	.00	5431.13	.395	2.01
19.80	.00	5431.00	.299	1.85
20.40	.00	5430.59	.220	1.36
21.00	.00	5430.29	.162	1.00
21.60	.00	5430.07	.119	.74
22.20	.00	5429.91	.087	.54
22.80	.00	5429.79	.064	.40
23.40	.00	5429.70	.047	.29
24.00	.00	5429.64	.035	.22
24.60	.00	5429.59	.026	.16
25.20	.00	5429.56	.019	.12
25.80	.00	5429.53	.014	.09
26.40	.00	5429.51	.010	.06
27.00	.00	5429.50	.007	.05
27.60	.00	5429.49	.005	.03
28.20	.00	5429.48	.004	.03
28.80	.00	5429.48	.003	.02
29.40	.00	5429.47	.002	.01
30.00	.00	5429.47	.002	.01
30.60	.00	5429.47	.001	.01
31.20	.00	5429.46	.001	.01
31.80	.00	5429.46	.001	.00
32.40	.00	5429.46	.000	.00

PEAK DISCHARGE = 6.711 CFS - PEAK OCCURS AT HOUR 2.40

MAXIMUM WATER SURFACE ELEVATION = 5435.922

MAXIMUM STORAGE = 5.0788 AC-FT INCREMENTAL TIME= .300000HRS

*

*

PRINT HYD

ID=50 CODE=10

HYDROGRAPH FROM AREA POND.D

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
	FLOW					
HRS	HRS	CFS	HRS	CFS	HRS	CFS
	.000	.0	9.000	5.3	18.000	2.3
27.000	.0					
	3.000	6.6	12.000	4.3	21.000	1.0
30.000	.0					
	6.000	5.9	15.000	3.3	24.000	.2
33.000	.0					

RUNOFF VOLUME = 1.11035 INCHES

= 7.2375 ACRE-FEET

PEAK DISCHARGE RATE = 6.71 CFS AT

2.400 HOURS BASIN AREA =

.1222 SQ. MI.

AHYMO-N0V13C-Output

*

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.0057

DIA=2.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION		1.0	MAX
	WATER SURFACE	FLOW AREA	FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
.89	.10	.06	.09	
1.22	.21	.17	.39	
1.45	.31	.31	.90	
1.62	.42	.47	1.63	
1.76	.52	.65	2.54	
1.85	.63	.84	3.62	
1.93	.73	1.04	4.85	
1.97	.83	1.24	6.21	
2.00	.94	1.45	7.65	
2.00	1.04	1.66	9.15	
2.00	1.15	1.86	10.69	
2.00	1.25	2.07	12.21	
2.00	1.35	2.27	13.69	
2.00	1.46	2.46	15.07	
2.00	1.56	2.63	16.31	
2.00	1.67	2.80	17.33	
2.00	1.77	2.94	18.07	
2.00	1.88	3.06	18.37	
2.00	2.00	3.14	18.37	

ROUTE MCUNGE

ID=51 HYD=RTE.D INFLOW ID=50

DT=0.0 L=1530 NS=0 SLOPE=0.0057

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 115
DT= .300000

TABLE PTS= 19
QMED= 3.36 CKMED= 5.7521
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AHYMO-NOV13C-Output
 WIDTH MED= 1.83 NREACH= 1 DX= 1530.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.000	.0	1.000	.403	.0	1.42	.68	1.000	.000	1.000
.251	-.248	.1	.998	.296	.9	2.36	1.43	1.666	.005	.996
.396	-.389	.2	.994	.190	1.2	3.26	2.24	2.300	.011	.993
.491	-.482	.3	.992	.147	1.5	4.12	2.88	2.911	.017	.991
.551	-.540	.6	.990	.447	1.6	4.86	3.43	3.427	.024	.989
.592	-.579	.7	.988	.124	1.8	5.48	3.90	3.867	.030	.988
.621	-.607	.8	.987	.523	1.9	6.01	4.32	4.240	.037	.986
.643	-.627	.9	.985	.098	2.0	6.45	4.68	4.554	.045	.984
.659	-.641	1.0	.983	.608	2.0	6.82	5.00	4.811	.053	.982
.671	-.650	1.1	.981	.633	2.0	7.10	5.29	5.013	.062	.980
.679	-.656	1.2	.978	.085	2.0	7.30	5.53	5.154	.072	.977
.681	-.654	1.3	.975	.676	2.0	7.35	5.74	5.187	.083	.973
.677	-.645	1.4	.971	.074	2.0	7.21	5.91	5.090	.097	.969
.665	-.626	1.5	.966	.681	2.0	6.87	6.04	4.849	.114	.962
.642	-.593	1.6	.957	.072	2.0	6.30	6.14	4.445	.137	.951
.601	-.533	1.7	.943	.655	2.0	5.45	6.19	3.845	.172	.932
.527	-.416	1.8	.916	.625	2.0	4.24	6.19	2.994	.234	.889
.369	-.106	1.9	.848	.069	2.0	2.48	6.14	1.754	.417	.737
.271	.271	2.0	.475	.471	2.0	1.42	6.00	.999	.744	.458
		2.1		.071	2.0					
		2.2		.077	2.0					
		2.3		.077	2.0					
		2.4		.077	2.0					
		2.5		.077	2.0					
		2.6		.077	2.0					
		2.7		.077	2.0					
		2.8		.077	2.0					
		2.9		.077	2.0					
		3.0		.077	2.0					
		3.1		.077	2.0					
		3.2		.077	2.0					
		3.3		.077	2.0					
		3.4		.077	2.0					
		3.5		.077	2.0					
		3.6		.077	2.0					
		3.7		.077	2.0					
		3.8		.077	2.0					
		3.9		.077	2.0					
		4.0		.077	2.0					
		4.1		.077	2.0					
		4.2		.077	2.0					
		4.3		.077	2.0					
		4.4		.077	2.0					
		4.5		.077	2.0					
		4.6		.077	2.0					
		4.7		.077	2.0					
		4.8		.077	2.0					
		4.9		.077	2.0					
		5.0		.077	2.0					
		5.1		.077	2.0					
		5.2		.077	2.0					
		5.3		.077	2.0					
		5.4		.077	2.0					
		5.5		.077	2.0					
		5.6		.077	2.0					
		5.7		.077	2.0					
		5.8		.077	2.0					
		5.9		.077	2.0					
		6.0		.077	2.0					
		6.1		.077	2.0					
		6.2		.077	2.0					
		6.3		.077	2.0					
		6.4		.077	2.0					
		6.5		.077	2.0					
		6.6		.077	2.0					
		6.7		.077	2.0					
		6.8		.077	2.0					
		6.9		.077	2.0					
		7.0		.077	2.0					
		7.1		.077	2.0					
		7.2		.077	2.0					
		7.3		.077	2.0					
		7.4		.077	2.0					
		7.5		.077	2.0					
		7.6		.077	2.0					
		7.7		.077	2.0					
		7.8		.077	2.0					
		7.9		.077	2.0					
		8.0		.077	2.0					
		8.1		.077	2.0					
		8.2		.077	2.0					
		8.3		.077	2.0					
		8.4		.077	2.0					
		8.5		.077	2.0					
		8.6		.077	2.0					
		8.7		.077	2.0					
		8.8		.077	2.0					
		8.9		.077	2.0					
		9.0		.077	2.0					
		9.1		.077	2.0					
		9.2		.077	2.0					
		9.3		.077	2.0					
		9.4		.077	2.0					
		9.5		.077	2.0					
		9.6		.077	2.0					
		9.7		.077	2.0					
		9.8		.077	2.0					
		9.9		.077	2.0					
		10.0		.077	2.0					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 2 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.1326

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.000	.0	1.000	.403	.0	1.42	.68	1.000	.000	1.000
.008	.000	.1	.997	.296	.9	1.43	1.43	1.008	.008	.992
.025	.000	.2	.984	.190	1.2	1.45	2.24	1.025	.025	.975
.046	.000	.3	.965	.147	1.5	1.48	2.88	1.048	.048	.954
.070	.000	.6	.942	.035	1.6	1.52	3.43	1.075	.075	.930
.096	.000	.7	.917	.058	1.8	1.57	3.90	1.106	.106	.904
	.63	.8	3.6	.098	1.9	1.61	4.32	1.139	.139	.878

AHYMO-NOV13C-Output

.122	.000	3.1	.891	.109	.000					
	.73	1.0	4.9	.091	1.9	1.66	4.68	1.174	.174	.852
.148	.000	4.2	.865	.135	.000					
	.83	1.2	6.2	.085	2.0	1.71	5.00	1.210	.210	.826
.174	.000	5.5	.839	.161	.000					
	.94	1.4	7.6	.080	2.0	1.77	5.29	1.248	.248	.801
.199	.000	6.9	.813	.187	.000					
	1.04	1.7	9.2	.077	2.0	1.82	5.53	1.288	.288	.777
.223	.000	8.4	.789	.211	.000					
	1.15	1.9	10.7	.074	2.0	1.88	5.74	1.326	.326	.754
.246	.000	9.9	.765	.235	.000					
	1.25	2.1	12.2	.072	2.0	1.93	5.91	1.363	.363	.734
.266	.000	11.4	.744	.256	.000					
	1.35	2.3	13.7	.070	2.0	1.98	6.04	1.397	.397	.716
.284	.000	12.9	.725	.275	.000					
	1.46	2.5	15.1	.069	2.0	2.02	6.14	1.427	.427	.701
.299	.000	14.4	.708	.292	.000					
	1.56	2.6	16.3	.069	2.0	2.06	6.19	1.454	.454	.688
.312	.000	15.7	.694	.306	.000					
	1.67	2.8	17.3	.069	2.0	2.09	6.19	1.475	.475	.678
.322	.000	16.8	.683	.317	.000					
	1.77	2.9	18.1	.069	2.0	2.11	6.14	1.491	.491	.671
.329	.000	17.7	.674	.326	.000					
	1.88	3.1	18.4	.071	2.0	1.42	6.00	.999	.744	.458
.271	.271	18.2	.475	.271	.254					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 1 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.0268

Equations solved with two passes: first using the Ponce correction to C1,
 second using the Fread correction to C1, C2 and C3

PRINT HYD

ID=51 CODE=0

HYDROGRAPH FROM AREA RTE.D

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	CFS
	HRS			HRS		
	CFS			CFS		
	.000	.0	7.200	5.7	14.400	3.6
21.600	.9	28.800	7.500	5.7	14.700	3.5
21.900	.7	29.100	7.800	5.6	15.000	3.4
22.200	.6	29.400	8.100	5.5	15.300	3.3
22.500	.5	29.700	8.400	5.5	15.600	3.2
22.800	.5	30.000	8.700	5.4	15.900	3.1
23.100	.4	30.300	9.000	5.3	16.200	3.0
23.400	.3	30.600	9.300	5.3	16.500	2.9
23.700	.3	30.900	9.600	5.2	16.800	2.8
24.000	.3	31.200	9.900	5.1	17.100	2.7
24.300	.2	31.500	10.200	5.0	17.400	2.6
24.600	.2	31.800				

AHYMO-NOV13C-Output

	3.300	6.6	10.500	5.0	17.700	2.5
24.900	.2	32.100	.0			
	3.600	6.6	10.800	4.9	18.000	2.4
25.200	.1	32.400	.0			
	3.900	6.5	11.100	4.8	18.300	2.3
25.500	.1	32.700	.0			
	4.200	6.4	11.400	4.6	18.600	2.2
25.800	.1	33.000	.0			
	4.500	6.3	11.700	4.5	18.900	2.2
26.100	.1	33.300	.0			
	4.800	6.3	12.000	4.4	19.200	2.1
26.400	.1	33.600	.0			
	5.100	6.2	12.300	4.3	19.500	2.0
26.700	.1	33.900	.0			
	5.400	6.1	12.600	4.2	19.800	1.9
27.000	.1	34.200	.0			
	5.700	6.1	12.900	4.1	20.100	1.8
27.300	.0	34.500	.0			
	6.000	6.0	13.200	4.0	20.400	1.6
27.600	.0	34.800	.0			
	6.300	5.9	13.500	3.9	20.700	1.4
27.900	.0					
	6.600	5.9	13.800	3.8	21.000	1.2
28.200	.0					
	6.900	5.8	14.100	3.7	21.300	1.0
28.500	.0					

RUNOFF VOLUME = 1.10969 INCHES = 7.2332 ACRE-FEET
 PEAK DISCHARGE RATE = 6.71 CFS AT 2.700 HOURS BASIN AREA =
 .1222 SQ. MI.

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ADD HYD

ID=75 HYD=BYPASS.RTE.D ID I=51 II=31

PRINT HYD

ID=75 CODE=10

HYDROGRAPH FROM AREA BYPASS.RTE.D

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	CFS
	HRS			HRS		
	CFS			CFS		
	.000	.0	12.000	16.4	24.000	2.0
36.000	.0	48.000	.0			
	1.000	.0	13.000	14.4	25.000	.4
37.000	.0	49.000	.0			
	2.000	19.3	14.000	12.0	26.000	.3
38.000	.0	50.000	.0			
	3.000	20.5	15.000	10.2	27.000	.2
39.000	.0	51.000	.0			
	4.000	20.3	16.000	8.0	28.000	.2
40.000	.0	52.000	.0			
	5.000	20.0	17.000	6.5	29.000	.1
41.000	.0	53.000	.0			
	6.000	19.8	18.000	5.5	30.000	.1
42.000	.0	54.000	.0			

AHYMO-NOV13C-Output

43.000	7.000	19.6	19.000	4.8	31.000	.1
	.0	55.000	.0			
44.000	8.000	19.3	20.000	4.2	32.000	.1
	.0	56.000	.0			
45.000	9.000	19.1	21.000	3.3	33.000	.1
	.0					
46.000	10.000	18.9	22.000	2.7	34.000	.1
	.0					
47.000	11.000	18.4	23.000	2.3	35.000	.0
	.0					

RUNOFF VOLUME = 1.11051 INCHES = 24.2351 ACRE-FEET
 PEAK DISCHARGE RATE = 20.51 CFS AT 2.700 HOURS BASIN AREA =
 .4092 SQ. MI.

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COMPUTE NM HYD ID=20 HYD NO=BASIN.C DA=.01278 SQ MI

%A=0 %B=25.0 %C=25.0 %D=50.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 25.285 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .006390 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 17.029 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .006390 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=20 CODE=10

HYDROGRAPH FROM AREA BASIN.C

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0	5.000	.1	10.000	.1	
15.000	.1	20.000	.1	.1	11.000	.1	
16.000	.1	21.000	.1	.1	12.000	.1	
17.000	.1	22.000	.1	.1			

AHYMO-NOV13C-Output

18.000	3.000	.3	8.000	.1	13.000	.1
	.1	23.000	.1			
19.000	4.000	.1	9.000	.1	14.000	.1
	.1	24.000	.1			

RUNOFF VOLUME = 1.61332 INCHES = 1.0996 ACRE-FEET
 PEAK DISCHARGE RATE = 24.36 CFS AT 1.500 HOURS BASIN AREA =
 .0128 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.027

DIA=3.0 N=0.013

WIDTH	RATING CURVE WATER SURFACE ELEV	PIPE SECTION FLOW AREA SQ FT	1.0 FLOW RATE CFS	MAX FT
.00	.00	.00	.00	
1.33	.16	.14	.57	
1.83	.31	.39	2.50	
2.18	.47	.71	5.80	
2.44	.63	1.07	10.43	
2.63	.78	1.46	16.29	
2.78	.94	1.89	23.25	
2.89	1.09	2.33	31.14	
2.96	1.25	2.79	39.82	
2.99	1.41	3.26	49.09	
3.00	1.56	3.72	58.75	
3.00	1.72	4.19	68.58	
3.00	1.88	4.65	78.36	
3.00	2.03	5.10	87.83	
3.00	2.19	5.53	96.69	
3.00	2.35	5.93	104.63	
3.00	2.50	6.30	111.23	
3.00	2.66	6.62	115.95	
3.00	2.81	6.89	117.89	

AHYMO-NOV13C-Output

3.00

3.00

7.07

117.89

ROUTE MCUNGE

ID=76 HYD=RTE.C INFLOW ID=20

DT=0.0 L=1020 NS=0 SLOPE=0.027

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 248
DT= .100000
WIDTH MED=

2.50

TABLE PTS= 19
QMED= 12.18
NREACH= 1

CKMED=
DX=

14.7527
1020.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.094	.0	2.83	1.93	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.16	.1	.6	.069	1.3	6.73	4.09	2.376	.002	.999
.408	-.407	.1	.999	.242	-.241					
	.31	.4	2.5	.044	1.8	9.29	6.38	3.279	.005	.998
.533	-.531	1.4	.998	.463	-.461					
	.47	.7	5.8	.034	2.2	11.76	8.22	4.152	.008	.997
.612	-.609	4.0	.997	.576	-.573					
	.63	1.1	10.4	.029	2.4	13.85	9.77	4.887	.011	.996
.661	-.657	8.0	.996	.639	-.635					
	.78	1.5	16.3	.025	2.6	15.62	11.12	5.514	.014	.996
.694	-.689	13.2	.996	.679	-.675					
	.94	1.9	23.2	.023	2.8	17.13	12.31	6.046	.018	.995
.717	-.712	19.7	.995	.706	-.702					
	1.09	2.3	31.1	.021	2.9	18.40	13.35	6.494	.021	.994
.734	-.728	27.1	.995	.726	-.721					
	1.25	2.8	39.8	.020	3.0	19.44	14.27	6.861	.025	.994
.746	-.740	35.4	.994	.741	-.735					
	1.41	3.3	49.1	.019	3.0	20.26	15.08	7.149	.029	.993
.755	-.748	44.4	.993	.752	-.745					
	1.56	3.7	58.7	.018	3.0	20.82	15.77	7.349	.034	.992
.761	-.753	53.9	.992	.759	-.752					
	1.72	4.2	68.6	.017	3.0	20.96	16.36	7.396	.040	.991
.763	-.754	63.6	.991	.763	-.754					
	1.88	4.7	78.4	.017	3.0	20.56	16.85	7.258	.046	.989
.759	-.748	73.4	.990	.762	-.752					
	2.03	5.1	87.8	.016	3.0	19.59	17.23	6.915	.054	.986
.749	-.735	83.1	.988	.755	-.743					
	2.19	5.5	96.7	.016	3.0	17.96	17.50	6.338	.065	.982
.730	-.712	92.3	.985	.741	-.726					
	2.35	5.9	104.6	.016	3.0	15.54	17.65	5.483	.082	.975
.695	-.671	100.7	.980	.716	-.696					
	2.50	6.3	111.2	.016	3.0	12.10	17.66	4.269	.111	.959
.628	-.587	107.9	.969	.670	-.639					
	2.66	6.6	116.0	.016	3.0	7.09	17.51	2.501	.198	.893
.459	-.352	113.6	.942	.574	-.515					
	2.81	6.9	117.9	.017	3.0	4.04	17.12	1.425	.353	.746
.280	-.026	116.9	.756	.286	-.042					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 7 TIMES.

AVERAGE NUMBER ITERATIONS = 1.0492

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.094	.0	2.83	1.93	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					

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.005	.16	.1	.6	.069	1.3	2.85	4.09	1.005	.005	.995
.005	.000	.1	.998	.002	.000					
.017	.31	.4	2.5	.044	1.8	2.88	6.38	1.017	.017	.983
.017	.000	1.4	.989	.011	.000					
.032	.47	.7	5.8	.034	2.2	2.93	8.22	1.033	.033	.968
.032	.000	4.0	.976	.024	.000					
.050	.63	1.1	10.4	.029	2.4	2.98	9.77	1.052	.052	.950
.050	.000	8.0	.959	.041	.000					
.069	.78	1.5	16.3	.025	2.6	3.04	11.12	1.074	.074	.931
.069	.000	13.2	.941	.059	.000					
.089	.94	1.9	23.2	.023	2.8	3.11	12.31	1.098	.098	.911
.089	.000	19.7	.921	.079	.000					
.110	1.09	2.3	31.1	.021	2.9	3.18	13.35	1.123	.123	.890
.110	.000	27.1	.901	.099	.000					
.130	1.25	2.8	39.8	.020	3.0	3.26	14.27	1.150	.150	.870
.130	.000	35.4	.880	.120	.000					
.151	1.41	3.3	49.1	.019	3.0	3.34	15.08	1.178	.178	.849
.151	.000	44.4	.859	.141	.000					
.172	1.56	3.7	58.7	.018	3.0	3.42	15.77	1.208	.208	.828
.172	.000	53.9	.838	.162	.000					
.192	1.72	4.2	68.6	.017	3.0	3.50	16.36	1.237	.237	.808
.192	.000	63.6	.818	.182	.000					
.209	1.88	4.7	78.4	.017	3.0	3.58	16.85	1.265	.265	.791
.209	.000	73.4	.799	.201	.000					
.225	2.03	5.1	87.8	.016	3.0	3.66	17.23	1.291	.291	.775
.225	.000	83.1	.783	.217	.000					
.239	2.19	5.5	96.7	.016	3.0	3.72	17.50	1.314	.314	.761
.239	.000	92.3	.768	.232	.000					
.251	2.35	5.9	104.6	.016	3.0	3.78	17.65	1.335	.335	.749
.251	.000	100.7	.755	.245	.000					
.260	2.50	6.3	111.2	.016	3.0	3.83	17.66	1.352	.352	.740
.260	.000	107.9	.744	.256	.000					
.267	2.66	6.6	116.0	.016	3.0	3.86	17.51	1.363	.363	.733
.267	.000	113.6	.737	.263	.000					
.269	2.81	6.9	117.9	.017	3.0	3.88	17.12	1.368	.368	.731
.269	.000	116.9	.732	.268	.000					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 3 TIMES.
AVERAGE NUMBER ITERATIONS = 1.0357

Equations solved with two passes: first using the Ponce correction to C1,
second using the Fread correction to C1, C2 and C3

PRINT HYD

ID=76 CODE=0

HYDROGRAPH FROM AREA RTE.C

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	FLOW
HRS	HRS	CFS	HRS	HRS	HRS	CFS
	CFS		CFS	CFS		
15.300	.000	.0	5.100	.1	10.200	.1
15.300	.1	20.400	5.200	.1	10.300	.1
15.400	.100	.0	5.300	.1	10.400	.1
15.400	.1	20.500	5.400	.1	10.500	.1
15.500	.200	.0	5.500	.1	10.600	.1
15.500	.1	20.600	5.600	.1	10.700	.1
15.600	.300	.0				
15.600	.1	20.700				
15.700	.400	.0				
15.700	.1	20.800				
	.500	.0				

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15.800	.1	20.900	.1		
	.600	.0	5.700	.1	10.800 .1
15.900	.1	21.000	.1		
	.700	.0	5.800	.1	10.900 .1
16.000	.1	21.100	.1		
	.800	.0	5.900	.1	11.000 .1
16.100	.1	21.200	.1		
	.900	.0	6.000	.1	11.100 .1
16.200	.1	21.300	.1		
	1.000	.0	6.100	.1	11.200 .1
16.300	.1	21.400	.1		
	1.100	.0	6.200	.2	11.300 .1
16.400	.1	21.500	.1		
	1.200	.1	6.300	.2	11.400 .1
16.500	.1	21.600	.1		
	1.300	1.7	6.400	.2	11.500 .1
16.600	.1	21.700	.1		
	1.400	6.9	6.500	.2	11.600 .1
16.700	.1	21.800	.1		
	1.500	21.0	6.600	.2	11.700 .1
16.800	.1	21.900	.1		
	1.600	23.7	6.700	.2	11.800 .1
16.900	.1	22.000	.1		
	1.700	16.5	6.800	.2	11.900 .1
17.000	.1	22.100	.1		
	1.800	10.9	6.900	.2	12.000 .1
17.100	.1	22.200	.1		
	1.900	7.9	7.000	.2	12.100 .1
17.200	.1	22.300	.1		
	2.000	6.1	7.100	.2	12.200 .1
17.300	.1	22.400	.1		
	2.100	4.9	7.200	.2	12.300 .1
17.400	.1	22.500	.1		
	2.200	3.0	7.300	.2	12.400 .1
17.500	.1	22.600	.1		
	2.300	1.7	7.400	.1	12.500 .1
17.600	.1	22.700	.1		
	2.400	1.2	7.500	.1	12.600 .1
17.700	.1	22.800	.1		
	2.500	.9	7.600	.1	12.700 .1
17.800	.1	22.900	.1		
	2.600	.7	7.700	.1	12.800 .1
17.900	.1	23.000	.1		
	2.700	.6	7.800	.1	12.900 .1
18.000	.1	23.100	.1		
	2.800	.5	7.900	.1	13.000 .1
18.100	.1	23.200	.1		
	2.900	.4	8.000	.1	13.100 .1
18.200	.1	23.300	.1		
	3.000	.3	8.100	.1	13.200 .1
18.300	.1	23.400	.1		
	3.100	.3	8.200	.1	13.300 .1
18.400	.1	23.500	.1		
	3.200	.2	8.300	.1	13.400 .1
18.500	.1	23.600	.1		
	3.300	.2	8.400	.1	13.500 .1
18.600	.1	23.700	.1		
	3.400	.2	8.500	.1	13.600 .1
18.700	.1	23.800	.1		
	3.500	.2	8.600	.1	13.700 .1
18.800	.1	23.900	.1		
	3.600	.2	8.700	.1	13.800 .1
18.900	.1	24.000	.1		

AHYMO-NOV13C-Output						
19.000	3.700	.1	8.800	.1	13.900	.1
	.1	24.100	.1			
19.100	3.800	.1	8.900	.1	14.000	.1
	.1	24.200	.0			
19.200	3.900	.1	9.000	.1	14.100	.1
	.1	24.300	.0			
19.300	4.000	.1	9.100	.1	14.200	.1
	.1	24.400	.0			
19.400	4.100	.1	9.200	.1	14.300	.1
	.1	24.500	.0			
19.500	4.200	.1	9.300	.1	14.400	.1
	.1	24.600	.0			
19.600	4.300	.1	9.400	.1	14.500	.1
	.1	24.700	.0			
19.700	4.400	.1	9.500	.1	14.600	.1
	.1	24.800	.0			
19.800	4.500	.1	9.600	.1	14.700	.1
	.1	24.900	.0			
19.900	4.600	.1	9.700	.1	14.800	.1
	.1	25.000	.0			
20.000	4.700	.1	9.800	.1	14.900	.1
	.1					
20.100	4.800	.1	9.900	.1	15.000	.1
	.1					
20.200	4.900	.1	10.000	.1	15.100	.1
	.1					
20.300	5.000	.1	10.100	.1	15.200	.1
	.1					

RUNOFF VOLUME = 1.60827 INCHES = 1.0962 ACRE-FEET
 PEAK DISCHARGE RATE = 23.74 CFS AT 1.600 HOURS BASIN AREA =
 .0128 SQ. MI.

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*****SANTA FE UNIT 1*****

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COMPUTE NM HYD ID=20 HYD NO=BASIN.F1 DA=.02208 SQ MI

%A=0 %B=21.7 %C=21.8 %D=56.5

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 49.364 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .012475 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118228HR TP = .133000HR K/TP RATIO = .888929 SHAPE
 CONSTANT, N = 3.990137
 UNIT PEAK = 25.602 CFS UNIT VOLUME = 1.007 B = 354.51

AHYMO-N0V13C-Output

P60 = 1.8400
 AREA = .009605 SQ MI IA = .42483 INCHES INF = 1.03952
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=20 CODE=10

HYDROGRAPH FROM AREA BASIN.F1

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		5.000	.3	10.000	.2
15.000	.2		20.000	.2			
	1.000	.0		6.000	.3	11.000	.2
16.000	.2		21.000	.2			
	2.000	9.2		7.000	.3	12.000	.2
17.000	.2		22.000	.2			
	3.000	.5		8.000	.3	13.000	.2
18.000	.2		23.000	.1			
	4.000	.2		9.000	.3	14.000	.2
19.000	.2		24.000	.1			

RUNOFF VOLUME = 1.71939 INCHES = 2.0247 ACRE-FEET
 PEAK DISCHARGE RATE = 43.39 CFS AT 1.500 HOURS BASIN AREA =
 .0221 SQ. MI.

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ADD HYD ID=77 HYD=C.F1 ID I=76 II=20

PRINT HYD ID=77 CODE=10

HYDROGRAPH FROM AREA C.F1

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		6.000	.4	12.000	.3
18.000	.3		24.000	.2			
	1.000	.0		7.000	.5	13.000	.3
19.000	.3		25.000	.0			
	2.000	15.3		8.000	.4	14.000	.3
20.000	.2			9.000	.4	15.000	.3
	3.000	.8		10.000	.4	16.000	.3
21.000	.2			11.000	.4	17.000	.3
	4.000	.4					
22.000	.2						
	5.000	.4					
23.000	.2						

RUNOFF VOLUME = 1.67860 INCHES = 3.1208 ACRE-FEET
 PEAK DISCHARGE RATE = 64.42 CFS AT 1.500 HOURS BASIN AREA =
 .0349 SQ. MI.

AHYMO-N0V13C-Output

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*****UNIVERSE BLVD*****

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COMPUTE NM HYD ID=21 HYD NO=BASIN.F2 DA=.00573 SQ MI

%A=0 %B=5.0 %C=5.0 %D=90.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 20.406 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .005157 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.5270 CFS UNIT VOLUME = .9989 B = 354.44
 P60 = 1.8400
 AREA = .000573 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=21 CODE=10

HYDROGRAPH FROM AREA BASIN.F2

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
15.000	.000	.0	20.000	5.000	.1	10.000	.1
16.000	.1	.0	21.000	6.000	.1	11.000	.1
17.000	.1	3.4	22.000	7.000	.1	12.000	.1
18.000	.1	.2	23.000	8.000	.1	13.000	.1
19.000	.1	.1	24.000	9.000	.1	14.000	.1

RUNOFF VOLUME = 2.26512 INCHES = .6922 ACRE-FEET
 PEAK DISCHARGE RATE = 13.02 CFS AT 1.500 HOURS BASIN AREA =
 .0057 SQ. MI.

AHYMO-N0V13C-Output

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ADD HYD

ID=78 HYD=CF1.F2 ID I=77 II=21

PRINT HYD

ID=78 CODE=10

HYDROGRAPH FROM AREA CF1.F2

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0		6.000	.6	12.000	.4
18.000	.3		24.000	.3		13.000	.4
	1.000	.0		7.000	.6		
19.000	.3		25.000	.0		14.000	.4
	2.000	18.7		8.000	.5		
20.000	.3			9.000	.5	15.000	.4
	3.000	1.0		10.000	.5		
21.000	.3			11.000	.5	17.000	.3
	4.000	.5					
22.000	.3						
	5.000	.5					
23.000	.3						

RUNOFF VOLUME = 1.76139 INCHES = 3.8130 ACRE-FEET
 PEAK DISCHARGE RATE = 77.44 CFS AT 1.500 HOURS BASIN AREA =
 .0406 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS N0=1 CODE=-1 SLP=0.023

DIA=3.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE ELEV	FLOW AREA SQ FT	1.0 FLOW RATE CFS	
.00	.00	.00	.00	FT
1.33	.16	.14	.53	
1.83	.31	.39	2.30	
2.18	.47	.71	5.35	
2.44	.63	1.07	9.63	
2.63	.78	1.46	15.04	
2.78	.94	1.89	21.45	
	1.09	2.33	28.74	

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2.89			
	1.25	2.79	36.75
2.96			
	1.41	3.26	45.30
2.99			
	1.56	3.72	54.22
3.00			
	1.72	4.19	63.30
3.00			
	1.88	4.65	72.33
3.00			
	2.03	5.10	81.06
3.00			
	2.19	5.53	89.25
3.00			
	2.35	5.93	96.57
3.00			
	2.50	6.30	102.66
3.00			
	2.66	6.62	107.02
3.00			
	2.81	6.89	108.81
3.00			
	3.00	7.07	108.81
3.00			

ROUTE MCUNGE

ID=79 HYD=RTE.CF1F2 INFLOW ID=78

DT=0.0 L=1560 NS=0 SLOPE=0.023

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 251
DT= .100000
WIDTH MED=

2.97

TABLE PTS= 19
QMED= 38.72
NREACH= 1

CKMED= 18.3657
DX= 1560.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.156	.0	4.33	1.78	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.16	.1	.5	.115	1.3	6.21	3.78	1.434	.002	.999
.179	-.177	.1	1.000	.028	-.028					
	.31	.4	2.3	.074	1.8	8.58	5.89	1.979	.004	.997
.330	-.327	1.3	.998	.244	-.241					
	.47	.7	5.4	.057	2.2	10.86	7.59	2.505	.006	.996
.430	-.427	3.7	.997	.384	-.381					
	.63	1.1	9.6	.048	2.4	12.78	9.02	2.949	.009	.996
.495	-.490	7.4	.996	.465	-.461					
	.78	1.5	15.0	.042	2.6	14.42	10.27	3.327	.011	.995
.539	-.534	12.2	.995	.519	-.514					
	.94	1.9	21.5	.038	2.8	15.81	11.36	3.649	.014	.994
.571	-.565	18.2	.995	.557	-.551					
	1.09	2.3	28.7	.035	2.9	16.98	12.32	3.919	.016	.993
.595	-.588	25.0	.994	.584	-.578					
	1.25	2.8	36.8	.033	3.0	17.94	13.17	4.140	.019	.993
.612	-.605	32.7	.993	.605	-.598					
	1.41	3.3	45.3	.031	3.0	18.69	13.92	4.314	.023	.992
.625	-.617	41.0	.992	.620	-.612					
	1.56	3.7	54.2	.030	3.0	19.22	14.56	4.435	.026	.990
.634	-.624	49.7	.991	.631	-.622					
	1.72	4.2	63.3	.029	3.0	19.34	15.10	4.463	.030	.989

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.636	-.625	58.7	.990	.636	-.626					
	1.88	4.7	72.3	.028	3.0	18.98	15.55	4.380	.035	.987
.631	-.618	67.8	.988	.635	-.623					
	2.03	5.1	81.1	.027	3.0	18.08	15.90	4.173	.042	.984
.616	-.600	76.7	.986	.625	-.611					
	2.19	5.5	89.2	.027	3.0	16.57	16.15	3.825	.050	.979
.590	-.569	85.1	.982	.606	-.588					
	2.35	5.9	96.6	.027	3.0	14.34	16.29	3.309	.063	.971
.542	-.514	92.9	.976	.571	-.547					
	2.50	6.3	102.7	.027	3.0	11.16	16.30	2.576	.085	.953
.454	-.407	99.6	.965	.508	-.473					
	2.66	6.6	107.0	.027	3.0	6.54	16.16	1.509	.152	.886
.248	-.134	104.9	.935	.385	-.320					
	2.81	6.9	108.8	.027	3.0	3.73	15.80	.860	.271	.745
.062	.193	107.9	.755	.067	.178					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 4 OCCURRED 1 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.0662
 Equations solved using the Ponce correction to C2

PRINT HYD

ID=79 CODE=0

HYDROGRAPH FROM AREA RTE.CF1F2

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		5.100	.5	10.200	.5
15.300	.4	.0	20.400	.3			
	.100	.0		5.200	.5	10.300	.5
15.400	.4	.0	20.500	.3			
	.200	.0		5.300	.5	10.400	.5
15.500	.4	.0	20.600	.3			
	.300	.0		5.400	.5	10.500	.5
15.600	.4	.0	20.700	.3			
	.400	.0		5.500	.5	10.600	.5
15.700	.4	.0	20.800	.3			
	.500	.0		5.600	.5	10.700	.5
15.800	.4	.0	20.900	.3			
	.600	.0		5.700	.5	10.800	.5
15.900	.4	.0	21.000	.3			
	.700	.0		5.800	.5	10.900	.5
16.000	.4	.0	21.100	.3			
	.800	.0		5.900	.5	11.000	.5
16.100	.4	.0	21.200	.3			
	.900	.0		6.000	.6	11.100	.5
16.200	.4	.0	21.300	.3			
	1.000	.0		6.100	.6	11.200	.5
16.300	.4	.0	21.400	.3			
	1.100	.0		6.200	.6	11.300	.4
16.400	.4		21.500	.3			
	1.200	1.5		6.300	.6	11.400	.4
16.500	.4		21.600	.3			
	1.300	13.1		6.400	.6	11.500	.4
16.600	.4		21.700	.3			
	1.400	45.0		6.500	.6	11.600	.4
16.700	.4		21.800	.3			
	1.500	76.9		6.600	.6	11.700	.4
16.800	.4		21.900	.3			
	1.600	68.5		6.700	.6	11.800	.4

AHYMO-NOV13C-Output

16.900	.4	22.000	.3		
	1.700	46.4	6.800	.6	11.900 .4
17.000	.4	22.100	.3		
	1.800	32.7	6.900	.6	12.000 .4
17.100	.3	22.200	.3		
	1.900	24.8	7.000	.6	12.100 .4
17.200	.3	22.300	.3		
	2.000	19.8	7.100	.6	12.200 .4
17.300	.3	22.400	.3		
	2.100	14.6	7.200	.6	12.300 .4
17.400	.3	22.500	.3		
	2.200	8.7	7.300	.6	12.400 .4
17.500	.3	22.600	.3		
	2.300	5.5	7.400	.6	12.500 .4
17.600	.3	22.700	.3		
	2.400	4.0	7.500	.6	12.600 .4
17.700	.3	22.800	.3		
	2.500	3.1	7.600	.6	12.700 .4
17.800	.3	22.900	.3		
	2.600	2.4	7.700	.6	12.800 .4
17.900	.3	23.000	.3		
	2.700	1.9	7.800	.5	12.900 .4
18.000	.3	23.100	.3		
	2.800	1.5	7.900	.5	13.000 .4
18.100	.3	23.200	.3		
	2.900	1.3	8.000	.5	13.100 .4
18.200	.3	23.300	.3		
	3.000	1.1	8.100	.5	13.200 .4
18.300	.3	23.400	.3		
	3.100	.9	8.200	.5	13.300 .4
18.400	.3	23.500	.3		
	3.200	.8	8.300	.5	13.400 .4
18.500	.3	23.600	.3		
	3.300	.7	8.400	.5	13.500 .4
18.600	.3	23.700	.3		
	3.400	.7	8.500	.5	13.600 .4
18.700	.3	23.800	.3		
	3.500	.6	8.600	.5	13.700 .4
18.800	.3	23.900	.3		
	3.600	.6	8.700	.5	13.800 .4
18.900	.3	24.000	.3		
	3.700	.6	8.800	.5	13.900 .4
19.000	.3	24.100	.3		
	3.800	.5	8.900	.5	14.000 .4
19.100	.3	24.200	.2		
	3.900	.5	9.000	.5	14.100 .4
19.200	.3	24.300	.1		
	4.000	.5	9.100	.5	14.200 .4
19.300	.3	24.400	.0		
	4.100	.5	9.200	.5	14.300 .4
19.400	.3	24.500	.0		
	4.200	.5	9.300	.5	14.400 .4
19.500	.3	24.600	.0		
	4.300	.5	9.400	.5	14.500 .4
19.600	.3	24.700	.0		
	4.400	.5	9.500	.5	14.600 .4
19.700	.3	24.800	.0		
	4.500	.5	9.600	.5	14.700 .4
19.800	.3	24.900	.0		
	4.600	.5	9.700	.5	14.800 .4
19.900	.3	25.000	.0		
	4.700	.5	9.800	.5	14.900 .4
20.000	.3	25.100	.0		

AHYMO-NOV13C-Output

20.100	4.800	.5	9.900	.5	15.000	.4
	.3					
20.200	4.900	.5	10.000	.5	15.100	.4
	.3					
20.300	5.000	.5	10.100	.5	15.200	.4
	.3					

RUNOFF VOLUME = 1.76280 INCHES = 3.8161 ACRE-FEET
 PEAK DISCHARGE RATE = 76.94 CFS AT 1.500 HOURS BASIN AREA =
 .0406 SQ. MI.

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*****TAOS AT THE TRAILS*****

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COMPUTE NM HYD ID=22 HYD NO=BASIN.F3 DA=.03563 SQ MI

%A=0 %B=21.7 %C=21.8 %D=56.5

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 79.657 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .020131 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118228HR TP = .133000HR K/TP RATIO = .888929 SHAPE
 CONSTANT, N = 3.990137
 UNIT PEAK = 41.313 CFS UNIT VOLUME = 1.007 B = 354.51
 P60 = 1.8400
 AREA = .015499 SQ MI IA = .42483 INCHES INF = 1.03952
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=22 CODE=10

HYDROGRAPH FROM AREA BASIN.F3

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		5.000	.4	10.000	.4
15.000	.3		20.000	.3			
	1.000	.0		6.000	.5	11.000	.4
16.000	.3		21.000	.3			
	2.000	14.9		7.000	.5	12.000	.4
17.000	.3		22.000	.2			

AHYMO-NOV13C-Output

18.000	3.000	.8	8.000	.4	13.000	.3
	.3	23.000	.2			
19.000	4.000	.4	9.000	.4	14.000	.3
	.3	24.000	.2			

RUNOFF VOLUME = 1.71938 INCHES = 3.2673 ACRE-FEET
 PEAK DISCHARGE RATE = 70.02 CFS AT 1.500 HOURS BASIN AREA =
 .0356 SQ. MI.

*

ADD HYD ID=70 HYD=CF1F2.F3 ID I=79 II=22
 PRINT HYD ID=70 CODE=10

HYDROGRAPH FROM AREA CF1F2.F3

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		6.000	1.0	12.000	.8
18.000	.6		24.000	.5		13.000	.8
	1.000	.0		7.000	1.1		
19.000	.6		25.000	.0		14.000	.7
	2.000	34.7		8.000	1.0		
20.000	.6			9.000	.9	15.000	.7
	3.000	1.9		10.000	.9		
21.000	.6			11.000	.8	17.000	.6
	4.000	.9					
22.000	.5						
	5.000	.9					
23.000	.5						

RUNOFF VOLUME = 1.74248 INCHES = 7.0833 ACRE-FEET
 PEAK DISCHARGE RATE = 146.95 CFS AT 1.500 HOURS BASIN AREA =
 .0762 SQ. MI.

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*****SANTA FE III*****

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COMPUTE NM HYD ID=23 HYD NO=BASIN.F4 DA=.03892 SQ MI

%A=0 %B=25.0 %C=25.0 %D=50.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 77.002 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400

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AREA = .019460 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 51.860 CFS UNIT VOLUME = 1.007 B = 354.44
 P60 = 1.8400
 AREA = .019460 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=23 CODE=10

HYDROGRAPH FROM AREA BASIN.F4

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
15.000	.000	.0	20.000	5.000	.4	10.000	.4
16.000	.3	.0	21.000	.3	.5	11.000	.4
17.000	1.000	.0	22.000	.2	.5	12.000	.4
18.000	.3	14.9	23.000	.2	.4	13.000	.3
19.000	2.000	.8	24.000	.2	.4	14.000	.3
	3.000	.4					
	4.000						
	.3						

RUNOFF VOLUME = 1.61331 INCHES = 3.3488 ACRE-FEET
 PEAK DISCHARGE RATE = 74.16 CFS AT 1.500 HOURS BASIN AREA = .0389 SQ. MI.

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ADD HYD ID=71 HYD=CF1F2F3.F4 ID I=70 II=23
 PRINT HYD ID=71 CODE=10

HYDROGRAPH FROM AREA CF1F2F3.F4

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
18.000	.000	.0	24.000	6.000	1.5	12.000	1.2
19.000	.9	.0	25.000	.7	1.5	13.000	1.1
	1.000			.0	1.4	14.000	1.0
	.9	49.6					
	2.000						

AHYMO-N0V13C-Output

20.000	.8					
	3.000	2.7	9.000	1.3	15.000	1.0
21.000	.8					
	4.000	1.3	10.000	1.3	16.000	1.0
22.000	.8					
	5.000	1.3	11.000	1.2	17.000	.9
23.000	.7					

RUNOFF VOLUME = 1.69882 INCHES = 10.4320 ACRE-FEET
 PEAK DISCHARGE RATE = 221.12 CFS AT 1.500 HOURS BASIN AREA =
 .1151 SQ. MI.

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ADD HYD

ID=70 HYD=CF1F2F3F4.D ID I=71 II=75

PRINT HYD

ID=70 CODE=10

HYDROGRAPH FROM AREA CF1F2F3F4.D

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		12.000	17.6	24.000	2.8
36.000	.0		48.000	.0			
	1.000	.0		13.000	15.5	25.000	.4
37.000	.0		49.000	.0			
	2.000	68.9		14.000	13.0	26.000	.3
38.000	.0		50.000	.0			
	3.000	23.2		15.000	11.2	27.000	.2
39.000	.0		51.000	.0			
	4.000	21.6		16.000	9.0	28.000	.2
40.000	.0		52.000	.0			
	5.000	21.3		17.000	7.4	29.000	.1
41.000	.0		53.000	.0			
	6.000	21.3		18.000	6.4	30.000	.1
42.000	.0		54.000	.0			
	7.000	21.1		19.000	5.6	31.000	.1
43.000	.0		55.000	.0			
	8.000	20.8		20.000	5.0	32.000	.1
44.000	.0		56.000	.0			
	9.000	20.5		21.000	4.1	33.000	.1
45.000	.0						
	10.000	20.2		22.000	3.5	34.000	.1
46.000	.0						
	11.000	19.6		23.000	3.0	35.000	.0
47.000	.0						

RUNOFF VOLUME = 1.23970 INCHES = 34.6672 ACRE-FEET
 PEAK DISCHARGE RATE = 235.18 CFS AT 1.500 HOURS BASIN AREA =
 .5243 SQ. MI.

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AHYMO-N0V13C-Output

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COMPUTE NM HYD ID=24 HYD NO=BASIN.F5 DA=.01852 SQ MI

%A=0 %B=12.5 %C=12.5 %D=75.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 54.962 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .013890 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 12.339 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .004630 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=24 CODE=10

HYDROGRAPH FROM AREA BASIN.F5

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		5.000	.3	10.000	.3
15.000	.2		20.000	.2		11.000	.3
	1.000	.0		6.000	.3		
16.000	.2		21.000	.2		12.000	.3
	2.000	9.5		7.000	.3		
17.000	.2		22.000	.2		13.000	.2
	3.000	.5		8.000	.3		
18.000	.2		23.000	.2		14.000	.2
	4.000	.3		9.000	.3		
19.000	.2		24.000	.2			

RUNOFF VOLUME = 2.02070 INCHES = 1.9959 ACRE-FEET
 PEAK DISCHARGE RATE = 39.52 CFS AT 1.500 HOURS BASIN AREA =
 .0185 SQ. MI.

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COMPUTE NM HYD ID=25 HYD NO=BASIN.J10 DA=.00628 SQ MI

%A=0 %B=5.0 %C=5.0 %D=90.0

AHYMO-N0V13C-Output
TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 22.365 CFS UNIT VOLUME = 1.030 B = 526.28
P60 = 1.8400
AREA = .005652 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
CONSTANT, N = 3.989065
UNIT PEAK = 1.6736 CFS UNIT VOLUME = 1.001 B = 354.44
P60 = 1.8400
AREA = .000628 SQ MI IA = .42500 INCHES INF = 1.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

PRINT HYD ID=25 CODE=10

HYDROGRAPH FROM AREA BASIN.J10

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		5.000	.1	10.000	.1
15.000	.1		20.000	.1		11.000	.1
16.000	.1	.0	21.000	.1	.1	12.000	.1
17.000	.1	3.7	22.000	.1	.1	13.000	.1
18.000	.1	.2	23.000	.1	.1	14.000	.1
19.000	.1	.1	24.000	.1	.1		

RUNOFF VOLUME = 2.26512 INCHES = .7587 ACRE-FEET
PEAK DISCHARGE RATE = 14.27 CFS AT 1.500 HOURS BASIN AREA =
.0063 SQ. MI.

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*

COMPUTE NM HYD ID=26 HYD N0=BASIN.J11 DA=.00733 SQ MI

%A=0 %B=5.0 %C=5.0 %D=90.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 26.104 CFS UNIT VOLUME = 1.030 B = 526.28

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P60 = 1.8400
 AREA = .006597 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.9534 CFS UNIT VOLUME = 1.001 B = 354.44
 P60 = 1.8400
 AREA = .000733 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=26 CODE=10

HYDROGRAPH FROM AREA BASIN.J11

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
	.000	.0		5.000	.1	10.000
15.000	.1	.0	20.000	.1	.2	11.000
16.000	.1	.0	21.000	.1	.2	12.000
17.000	.1	4.3	22.000	.1	.1	13.000
18.000	.1	.2	23.000	.1	.1	14.000
19.000	.1	.1	24.000	.1		

RUNOFF VOLUME = 2.26512 INCHES = .8855 ACRE-FEET
 PEAK DISCHARGE RATE = 16.65 CFS AT 1.500 HOURS BASIN AREA = .0073 SQ. MI.

*

ADD HYD ID=23 HYD=J10.J11 ID I=25 II=26

PRINT HYD ID=23 CODE=10

HYDROGRAPH FROM AREA J10.J11

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
	.000	.0		5.000	.2	10.000
15.000	.2	.0	20.000	.2	.3	11.000
16.000	.2	.0	21.000	.2	.3	12.000
17.000	.2	8.0	22.000	.2		

AHYMO-N0V13C-Output

18.000	3.000	.4	8.000	.3	13.000	.2
	.2	23.000	.1			
19.000	4.000	.2	9.000	.3	14.000	.2
	.2	24.000	.1			

RUNOFF VOLUME = 2.26508 INCHES = 1.6441 ACRE-FEET
 PEAK DISCHARGE RATE = 30.92 CFS AT 1.500 HOURS BASIN AREA =
 .0136 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.004

DIA=3.0 N=0.013

WIDTH	RATING CURVE WATER SURFACE ELEV	PIPE SECTION FLOW AREA SQ FT	1.0 FLOW RATE CFS	MAX FT
.00	.00	.00	.00	
1.33	.16	.14	.22	
1.83	.31	.39	.96	
2.18	.47	.71	2.23	
2.44	.63	1.07	4.02	
2.63	.78	1.46	6.27	
2.78	.94	1.89	8.95	
2.89	1.09	2.33	11.99	
2.96	1.25	2.79	15.33	
2.99	1.41	3.26	18.89	
3.00	1.56	3.72	22.61	
3.00	1.72	4.19	26.40	
3.00	1.88	4.65	30.16	
3.00	2.03	5.10	33.81	
3.00	2.19	5.53	37.22	
3.00	2.35	5.93	40.27	
3.00	2.50	6.30	42.81	
3.00	2.66	6.62	44.63	
3.00	2.81	6.89	45.38	

AHYMO-NOV13C-Output

3.00

3.00

7.07

45.38

ROUTE MCUNGE

ID=10 HYD=RTE.J10J11 INFLOW ID=23

DT=0.0 L=1450 NS=0 SLOPE=0.004

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 248
DT= .100000
WIDTH MED=

2.96

TABLE PTS= 19
QMED= 15.46
NREACH= 1

CKMED= 7.6590
DX= 1450.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.348	.0	4.03	.74	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000	4.00	1.57	.993	.007	.993
.000	.16	.1	.2	.256	1.3	3.94	2.46	.977	.023	.977
.000	.007	.0	.999	.000	.001	4.53	3.16	1.124	.039	.964
.000	.31	.4	1.0	.164	1.8	5.33	3.76	1.323	.053	.955
.000	.023	.5	.986	.000	.014	6.01	4.28	1.493	.068	.947
.075	.47	.7	2.2	.127	2.2	6.59	4.74	1.637	.084	.938
.075	-.039	1.5	.968	.019	.013	7.08	5.14	1.758	.101	.929
.158	.63	1.1	4.0	.107	2.4	7.48	5.49	1.858	.119	.920
.158	-.114	3.1	.959	.120	-.079	7.80	5.80	1.936	.140	.909
.219	.78	1.5	6.3	.094	2.6	8.01	6.07	1.990	.162	.897
.219	-.166	5.1	.951	.191	-.142	8.07	6.30	2.003	.188	.882
.265	.94	1.9	8.9	.085	2.8	7.92	6.49	1.965	.219	.862
.265	-.203	7.6	.942	.244	-.187	7.54	6.63	1.872	.258	.835
.301	1.09	2.3	12.0	.078	2.9	7.08	5.14	1.758	.101	.929
.301	-.230	10.4	.934	.285	-.218	7.48	5.49	1.858	.119	.920
.328	1.25	2.8	15.3	.073	3.0	7.80	5.80	1.936	.140	.909
.328	-.248	13.6	.925	.316	-.241	8.01	6.07	1.990	.162	.897
.350	1.41	3.3	18.9	.069	3.0	8.07	6.30	2.003	.188	.882
.350	-.259	17.1	.915	.341	-.255	7.92	6.49	1.965	.219	.862
.365	1.56	3.7	22.6	.066	3.0	7.54	6.63	1.872	.258	.835
.365	-.263	20.7	.904	.359	-.263	6.91	6.74	1.716	.309	.795
.373	1.72	4.2	26.4	.064	3.0	5.98	6.79	1.485	.387	.730
.373	-.255	24.5	.890	.371	-.261	4.66	6.80	1.156	.528	.606
.372	1.88	4.7	30.2	.062	3.0	2.73	6.74	.677	.941	.281
.372	-.234	28.3	.873	.374	-.247	1.55	6.59	.386	1.678	-.095
.361	2.03	5.1	33.8	.061	3.0					
.361	-.196	32.0	.851	.368	-.219					
.339	2.19	5.5	37.2	.060	3.0					
.339	-.134	35.5	.818	.352	-.170					
.304	2.35	5.9	40.3	.059	3.0					
.304	-.034	38.7	.769	.324	-.093					
.255	2.50	6.3	42.8	.059	3.0					
.255	.139	41.5	.684	.282	.034					
.236	2.66	6.6	44.6	.060	3.0					
.236	.483	43.7	.503	.234	.263					
.347	2.81	6.9	45.4	.061	3.0					
.347	.748	45.0	.091	.292	.617					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 7 TIMES.

AVERAGE NUMBER ITERATIONS = 1.0458

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.348	.0	4.03	.74	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					

AHYMO-NOV13C-Output

.000	.16	.1	.2	.256	1.3	4.00	1.57	.993	.007	.993
.000	.007	.0	.999	.000	.001					
.000	.31	.4	1.0	.164	1.8	3.94	2.46	.977	.023	.977
.000	.023	.5	.986	.000	.014					
.040	.47	.7	2.2	.127	2.2	4.20	3.16	1.042	.042	.960
.040	.000	1.5	.968	.019	.013					
.062	.63	1.1	4.0	.107	2.4	4.29	3.76	1.066	.066	.938
.062	.000	3.1	.949	.051	.000					
.085	.78	1.5	6.3	.094	2.6	4.40	4.28	1.093	.093	.915
.085	.000	5.1	.926	.074	.000					
.109	.94	1.9	8.9	.085	2.8	4.52	4.74	1.123	.123	.891
.109	.000	7.6	.903	.097	.000					
.133	1.09	2.3	12.0	.078	2.9	4.65	5.14	1.154	.154	.867
.133	.000	10.4	.878	.122	.000					
.157	1.25	2.8	15.3	.073	3.0	4.78	5.49	1.187	.187	.843
.157	.000	13.6	.854	.146	.000					
.181	1.41	3.3	18.9	.069	3.0	4.92	5.80	1.221	.221	.819
.181	.000	17.1	.831	.169	.000					
.204	1.56	3.7	22.6	.066	3.0	5.06	6.07	1.257	.257	.796
.204	.000	20.7	.807	.193	.000					
.226	1.72	4.2	26.4	.064	3.0	5.20	6.30	1.292	.292	.774
.226	.000	24.5	.785	.215	.000					
.245	1.88	4.7	30.2	.062	3.0	5.34	6.49	1.325	.325	.755
.245	.000	28.3	.764	.236	.000					
.262	2.03	5.1	33.8	.061	3.0	5.46	6.63	1.356	.356	.738
.262	.000	32.0	.746	.254	.000					
.277	2.19	5.5	37.2	.060	3.0	5.57	6.74	1.384	.384	.723
.277	.000	35.5	.730	.270	.000					
.290	2.35	5.9	40.3	.059	3.0	5.67	6.79	1.408	.408	.710
.290	.000	38.7	.716	.284	.000					
.255	2.50	6.3	42.8	.059	3.0	4.66	6.80	1.156	.528	.606
.255	.139	41.5	.684	.282	.034					
.236	2.66	6.6	44.6	.060	3.0	2.73	6.74	.677	.941	.281
.236	.483	43.7	.503	.234	.263					
.309	2.81	6.9	45.4	.061	3.0	1.80	6.59	.447	1.447	.000
.309	.691	45.0	.139	.273	.588					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 6 TIMES.
AVERAGE NUMBER ITERATIONS = 1.0441

Equations solved with two passes: first using the Ponce correction to C1,
second using the Fread correction to C1, C2 and C3

PRINT HYD

ID=10 CODE=0

HYDROGRAPH FROM AREA RTE.J10J11

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	FLOW
	HRS			HRS		
	CFS			CFS		
15.600	.000	.0	5.200	.2	10.400	.2
15.700	.100	.0	5.300	.3	10.500	.2
15.800	.200	.0	5.400	.3	10.600	.2
15.900	.300	.0	5.500	.3	10.700	.2
16.000	.400	.0	5.600	.3	10.800	.2
	.500	.0	5.700	.3	10.900	.2

AHYMO-NOV13C-Output

16.100	.2	21.300	.2			
	.600	.0	5.800	.3	11.000	.2
16.200	.2	21.400	.2			
	.700	.0	5.900	.3	11.100	.2
16.300	.2	21.500	.2			
	.800	.0	6.000	.3	11.200	.2
16.400	.2	21.600	.2			
	.900	.0	6.100	.3	11.300	.2
16.500	.2	21.700	.2			
	1.000	.0	6.200	.3	11.400	.2
16.600	.2	21.800	.2			
	1.100	.0	6.300	.3	11.500	.2
16.700	.2	21.900	.2			
	1.200	.2	6.400	.3	11.600	.2
16.800	.2	22.000	.2			
	1.300	3.7	6.500	.3	11.700	.2
16.900	.2	22.100	.2			
	1.400	14.2	6.600	.3	11.800	.2
17.000	.2	22.200	.2			
	1.500	29.0	6.700	.3	11.900	.2
17.100	.2	22.300	.2			
	1.600	28.7	6.800	.3	12.000	.2
17.200	.2	22.400	.2			
	1.700	20.0	6.900	.3	12.100	.2
17.300	.2	22.500	.1			
	1.800	14.3	7.000	.3	12.200	.2
17.400	.2	22.600	.1			
	1.900	11.4	7.100	.3	12.300	.2
17.500	.2	22.700	.1			
	2.000	9.4	7.200	.3	12.400	.2
17.600	.2	22.800	.1			
	2.100	7.7	7.300	.3	12.500	.2
17.700	.2	22.900	.1			
	2.200	4.6	7.400	.3	12.600	.2
17.800	.2	23.000	.1			
	2.300	2.6	7.500	.3	12.700	.2
17.900	.2	23.100	.1			
	2.400	1.8	7.600	.3	12.800	.2
18.000	.2	23.200	.1			
	2.500	1.4	7.700	.3	12.900	.2
18.100	.2	23.300	.1			
	2.600	1.1	7.800	.3	13.000	.2
18.200	.2	23.400	.1			
	2.700	.8	7.900	.3	13.100	.2
18.300	.2	23.500	.1			
	2.800	.7	8.000	.3	13.200	.2
18.400	.2	23.600	.1			
	2.900	.6	8.100	.3	13.300	.2
18.500	.2	23.700	.1			
	3.000	.5	8.200	.3	13.400	.2
18.600	.2	23.800	.1			
	3.100	.4	8.300	.3	13.500	.2
18.700	.2	23.900	.1			
	3.200	.4	8.400	.3	13.600	.2
18.800	.2	24.000	.1			
	3.300	.3	8.500	.3	13.700	.2
18.900	.2	24.100	.1			
	3.400	.3	8.600	.3	13.800	.2
19.000	.2	24.200	.1			
	3.500	.3	8.700	.3	13.900	.2
19.100	.2	24.300	.0			
	3.600	.3	8.800	.3	14.000	.2
19.200	.2	24.400	.0			

AHYMO-NOV13C-Output						
19.300	3.700	.3	8.900	.3	14.100	.2
	.2	24.500	.0			
19.400	3.800	.3	9.000	.3	14.200	.2
	.2	24.600	.0			
19.500	3.900	.3	9.100	.3	14.300	.2
	.2	24.700	.0			
19.600	4.000	.2	9.200	.3	14.400	.2
	.2	24.800	.0			
19.700	4.100	.2	9.300	.3	14.500	.2
	.2	24.900	.0			
19.800	4.200	.2	9.400	.3	14.600	.2
	.2	25.000	.0			
19.900	4.300	.2	9.500	.3	14.700	.2
	.2	25.100	.0			
20.000	4.400	.2	9.600	.2	14.800	.2
	.2	25.200	.0			
20.100	4.500	.2	9.700	.3	14.900	.2
	.2	25.300	.0			
20.200	4.600	.2	9.800	.2	15.000	.2
	.2	25.400	.0			
20.300	4.700	.2	9.900	.2	15.100	.2
	.2	25.500	.0			
20.400	4.800	.2	10.000	.2	15.200	.2
	.2	25.600	.0			
20.500	4.900	.2	10.100	.2	15.300	.2
	.2					
20.600	5.000	.2	10.200	.2	15.400	.2
	.2					
20.700	5.100	.2	10.300	.2	15.500	.2
	.2					

RUNOFF VOLUME = 2.25104 INCHES = 1.6339 ACRE-FEET
 PEAK DISCHARGE RATE = 29.01 CFS AT 1.500 HOURS BASIN AREA =
 .0136 SQ. MI.

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COMPUTE NM HYD ID=26 HYD NO=BASIN.F7 DA=.01097 SQ MI

%A=0.0 %B=7.5 %C=7.5 %D=85.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 36.814 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .009325 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 4.3753 CFS UNIT VOLUME = 1.004 B = 354.44

AHYMO-N0V13C-Output

P60 = 1.8400
 AREA = .001646 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=26 CODE=10

HYDROGRAPH FROM AREA BASIN.F7

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS			
	.000	.0	5.000	.2		10.000	.2
15.000	.1		20.000	.1		11.000	.2
16.000	1.000	.0	6.000	.2		12.000	.2
17.000	.1		21.000	.1		13.000	.2
18.000	2.000	6.2	7.000	.2		14.000	.2
19.000	.1		22.000	.1			
	3.000	.3	8.000	.2			
	.1		23.000	.1			
	4.000	.2	9.000	.2			
	.1		24.000	.1			

RUNOFF VOLUME = 2.18365 INCHES = 1.2776 ACRE-FEET
 PEAK DISCHARGE RATE = 24.42 CFS AT 1.500 HOURS BASIN AREA =
 .0110 SQ. MI.

*
 *
 *

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.004

DIA=3.5 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE	FLOW AREA	1.0 FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
1.56	.18	.19	.33	
2.14	.36	.53	1.45	
2.54	.55	.96	3.37	
2.84	.73	1.45	6.06	
3.07	.91	1.99	9.46	
3.25	1.09	2.57	13.50	

AHYMO-N0V13C-Output

3.37	1.28	3.17	18.08
3.45	1.46	3.80	23.12
3.49	1.64	4.43	28.50
3.50	1.82	5.07	34.11
3.50	2.01	5.70	39.82
3.50	2.19	6.33	45.50
3.50	2.37	6.94	50.99
3.50	2.55	7.52	56.14
3.50	2.74	8.07	60.75
3.50	2.92	8.57	64.58
3.50	3.10	9.01	67.32
3.50	3.28	9.37	68.45
3.50	3.50	9.62	68.45

ROUTE MCUNGE

ID=74 HYD=RTE.F7 INFLOW ID=26

DT=0.0 L=500 NS=0 SLOPE=0.004

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 249
DT= .100000
WIDTH MED=

TABLE PTS= 19
QMED= 12.21
NREACH= 1

CKMED= 6.9976
DX= 500.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.108	.0	1.39	.82	1.000	.000	1.000
.356	.18	.2	.3	.080	1.6	2.87	1.75	2.068	.037	.976
.492	-.332	.1	.986	.181	-.167	3.96	2.72	2.853	.085	.957
.578	.36	.5	1.4	.051	2.1	5.02	3.51	3.613	.132	.944
.632	-.449	.8	.962	.417	-.379	5.91	4.17	4.253	.180	.934
.668	.55	1.0	3.4	.040	2.5	6.66	4.74	4.798	.231	.923
.714	-.523	2.3	.949	.539	-.488	7.31	5.25	5.261	.285	.913
.729	.73	1.5	6.1	.033	2.8	8.29	6.09	5.970	.404	.890
.740	-.566	4.6	.938	.608	-.546	8.64	6.43	6.221	.472	.877
.748	.91	2.0	9.5	.029	3.1	8.88	6.73	6.395	.549	.862
	-.592	7.7	.928	.652	-.580					
	1.09	2.6	13.5	.026	3.2					
	-.608	11.4	.918	.683	-.601					
	1.28	3.2	18.1	.024	3.4					
	-.616	15.7	.908	.705	-.613					
	1.46	3.8	23.1	.023	3.5					
	-.619	20.6	.897	.722	-.619					
	1.64	4.4	28.5	.022	3.5					
	-.617	25.8	.884	.735	-.620					
	1.82	5.1	34.1	.021	3.5					
	-.610	31.3	.870	.745	-.615					

AHYMO-NOV13C-Output

	2.01	5.7	39.8	.020	3.5	8.94	6.98	6.436	.636	.842
.752	-.595	36.9	.853	.751	-.604					
	2.19	6.3	45.5	.019	3.5	8.77	7.19	6.316	.741	.816
.752	-.568	42.6	.831	.753	-.583					
	2.37	6.9	51.0	.019	3.5	8.36	7.35	6.017	.872	.779
.746	-.525	48.2	.800	.750	-.550					
	2.55	7.5	56.1	.019	3.5	7.66	7.47	5.515	1.047	.723
.736	-.459	53.6	.755	.742	-.497					
	2.74	8.1	60.7	.018	3.5	6.63	7.53	4.771	1.310	.630
.718	-.348	58.4	.685	.728	-.413					
	2.92	8.6	64.6	.018	3.5	5.16	7.53	3.715	1.788	.450
.692	-.143	62.7	.562	.706	-.269					
	3.10	9.0	67.3	.019	3.5	3.02	7.47	2.176	3.182	-.001
.685	.316	66.0	.302	.682	.016					
	3.28	9.4	68.4	.019	3.5	1.72	7.30	1.240	5.677	-.434
.747	.687	67.9	-.220	.717	.504					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 7 TIMES.

AVERAGE NUMBER ITERATIONS = 1.0526

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.108	.0	1.39	.82	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.18	.2	.3	.080	1.6	1.49	1.75	1.072	.072	.933
.067	.000	.1	.977	.023	.000					
	.36	.5	1.4	.051	2.1	1.67	2.72	1.203	.203	.831
.169	.000	.8	.880	.120	.000					
	.55	1.0	3.4	.040	2.5	1.88	3.51	1.353	.353	.739
.261	.000	2.3	.782	.218	.000					
	.73	1.5	6.1	.033	2.8	2.10	4.17	1.508	.508	.663
.337	.000	4.6	.698	.302	.000					
	.91	2.0	9.5	.029	3.1	2.31	4.74	1.665	.665	.600
.400	.000	7.7	.629	.371	.000					
	1.09	2.6	13.5	.026	3.2	2.53	5.25	1.822	.822	.549
.451	.000	11.4	.573	.427	.000					
	1.28	3.2	18.1	.024	3.4	2.75	5.70	1.977	.977	.506
.494	.000	15.7	.526	.474	.000					
	1.46	3.8	23.1	.023	3.5	2.96	6.09	2.131	1.131	.469
.531	.000	20.6	.486	.514	.000					
	1.64	4.4	28.5	.022	3.5	3.17	6.43	2.285	1.285	.438
.562	.000	25.8	.453	.547	.000					
	1.82	5.1	34.1	.021	3.5	3.39	6.73	2.439	1.439	.410
.590	.000	31.3	.423	.577	.000					
	2.01	5.7	39.8	.020	3.5	3.59	6.98	2.585	1.585	.387
.613	.000	36.9	.398	.602	.000					
	2.19	6.3	45.5	.019	3.5	3.78	7.19	2.720	1.720	.368
.632	.000	42.6	.377	.623	.000					
	2.37	6.9	51.0	.019	3.5	3.95	7.35	2.844	1.844	.352
.648	.000	48.2	.359	.641	.000					
	2.55	7.5	56.1	.019	3.5	4.10	7.47	2.954	1.954	.338
.662	.000	53.6	.345	.655	.000					
	2.74	8.1	60.7	.018	3.5	4.23	7.53	3.049	2.049	.328
.672	.000	58.4	.333	.667	.000					
	2.92	8.6	64.6	.018	3.5	4.34	7.53	3.125	2.125	.320
.680	.000	62.7	.324	.676	.000					
	3.10	9.0	67.3	.019	3.5	3.03	7.47	2.179	3.179	.000
.685	.315	66.0	.302	.682	.016					
	3.28	9.4	68.4	.019	3.5	3.06	7.30	2.200	3.200	.000
.688	.312	67.9	.000	.686	.314					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 6 TIMES.

AVERAGE NUMBER ITERATIONS = 1.0441

Equations solved with two passes: first using the Ponce correction to C1,

AHYMO-N0V13C-Output
second using the Fread correction to C1, C2 and C3
*

PRINT HYD

ID=74 CODE=0

HYDROGRAPH FROM AREA RTE.F7

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0		5.100	.2	10.200	.2
15.300	.1	.0	20.400	.1	.2	10.300	.2
	.100	.0		5.200	.2		
15.400	.1	.0	20.500	.1	.2	10.400	.2
	.200	.0		5.300	.2		
15.500	.1	.0	20.600	.1	.2	10.500	.2
	.300	.0		5.400	.2		
15.600	.1	.0	20.700	.1	.2	10.600	.2
	.400	.0		5.500	.2		
15.700	.1	.0	20.800	.1	.2	10.700	.2
	.500	.0		5.600	.2		
15.800	.1	.0	20.900	.1	.2	10.800	.2
	.600	.0		5.700	.2		
15.900	.1	.0	21.000	.1	.2	10.900	.2
	.700	.0		5.800	.2		
16.000	.1	.0	21.100	.1	.2	11.000	.2
	.800	.0		5.900	.2		
16.100	.1	.0	21.200	.1	.2	11.100	.2
	.900	.0		6.000	.2		
16.200	.1	.0	21.300	.1	.2	11.200	.2
	1.000	.0		6.100	.2		
16.300	.1	.0	21.400	.1	.2	11.300	.2
	1.100	.0		6.200	.2		
16.400	.1	.4	21.500	.1	.2	11.400	.2
	1.200	.4		6.300	.2		
16.500	.1	4.2	21.600	.1	.2	11.500	.2
	1.300	4.2		6.400	.2		
16.600	.1	14.8	21.700	.1	.2	11.600	.2
	1.400	14.8		6.500	.2		
16.700	.1	23.4	21.800	.1	.2	11.700	.2
	1.500	23.4		6.600	.2		
16.800	.1	20.5	21.900	.1	.2	11.800	.2
	1.600	20.5		6.700	.2		
16.900	.1	14.4	22.000	.1	.2	11.900	.2
	1.700	14.4		6.800	.2		
17.000	.1	10.5	22.100	.1	.2	12.000	.2
	1.800	10.5		6.900	.2		
17.100	.1	8.5	22.200	.1	.2	12.100	.2
	1.900	8.5		7.000	.2		
17.200	.1	7.0	22.300	.1	.2	12.200	.2
	2.000	7.0		7.100	.2		
17.300	.1	5.4	22.400	.1	.2	12.300	.2
	2.100	5.4		7.200	.2		
17.400	.1	3.2	22.500	.1	.2	12.400	.2
	2.200	3.2		7.300	.2		
17.500	.1	1.9	22.600	.1	.2	12.500	.2
	2.300	1.9		7.400	.2		
17.600	.1	1.4	22.700	.1	.2	12.600	.2
	2.400	1.4		7.500	.2		
17.700	.1		22.800	.1			

AHYMO-NOV13C-Output						
	2.500	1.0	7.600	.2	12.700	.2
17.800	.1	22.900	.1			
	2.600	.8	7.700	.2	12.800	.2
17.900	.1	23.000	.1			
	2.700	.6	7.800	.2	12.900	.2
18.000	.1	23.100	.1			
	2.800	.5	7.900	.2	13.000	.2
18.100	.1	23.200	.1			
	2.900	.4	8.000	.2	13.100	.2
18.200	.1	23.300	.1			
	3.000	.4	8.100	.2	13.200	.2
18.300	.1	23.400	.1			
	3.100	.3	8.200	.2	13.300	.2
18.400	.1	23.500	.1			
	3.200	.3	8.300	.2	13.400	.2
18.500	.1	23.600	.1			
	3.300	.3	8.400	.2	13.500	.2
18.600	.1	23.700	.1			
	3.400	.2	8.500	.2	13.600	.2
18.700	.1	23.800	.1			
	3.500	.2	8.600	.2	13.700	.2
18.800	.1	23.900	.1			
	3.600	.2	8.700	.2	13.800	.2
18.900	.1	24.000	.1			
	3.700	.2	8.800	.2	13.900	.2
19.000	.1	24.100	.1			
	3.800	.2	8.900	.2	14.000	.2
19.100	.1	24.200	.1			
	3.900	.2	9.000	.2	14.100	.2
19.200	.1	24.300	.0			
	4.000	.2	9.100	.2	14.200	.2
19.300	.1	24.400	.0			
	4.100	.2	9.200	.2	14.300	.2
19.400	.1	24.500	.0			
	4.200	.2	9.300	.2	14.400	.2
19.500	.1	24.600	.0			
	4.300	.2	9.400	.2	14.500	.2
19.600	.1	24.700	.0			
	4.400	.2	9.500	.2	14.600	.2
19.700	.1	24.800	.0			
	4.500	.2	9.600	.2	14.700	.2
19.800	.1	24.900	.0			
	4.600	.2	9.700	.2	14.800	.1
19.900	.1	25.000	.0			
	4.700	.2	9.800	.2	14.900	.1
20.000	.1					
	4.800	.2	9.900	.2	15.000	.1
20.100	.1					
	4.900	.2	10.000	.2	15.100	.1
20.200	.1					
	5.000	.2	10.100	.2	15.200	.1
20.300	.1					

RUNOFF VOLUME = 2.16910 INCHES = 1.2691 ACRE-FEET
 PEAK DISCHARGE RATE = 23.37 CFS AT 1.500 HOURS BASIN AREA =
 .0110 SQ. MI.

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ADD HYD
PRINT HYD

AHYMO-N0V13C-Output
ID=75 HYD=F7.F5 ID I=74 II=24
ID=75 CODE=10

HYDROGRAPH FROM AREA F7.F5

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		6.000	.5	12.000	.4
18.000	.3		24.000	.3		13.000	.4
	1.000	.0		7.000	.6		
19.000	.3		25.000	.0		14.000	.4
	2.000	16.5		8.000	.5		
20.000	.3			9.000	.5	15.000	.4
	3.000	.9		10.000	.5		
21.000	.3			11.000	.4	17.000	.3
	4.000	.5					
22.000	.3						
	5.000	.5					
23.000	.3						

RUNOFF VOLUME = 2.07585 INCHES = 3.2649 ACRE-FEET
PEAK DISCHARGE RATE = 62.89 CFS AT 1.500 HOURS BASIN AREA =
.0295 SQ. MI.

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*

ROUTE RESERVOIR ID=51 HYD=POND.F5 INFLOW ID=75 CODE=5

OUTFLOW	STORAGE	DEPTH
0	0	5421
3.00 0.1993	5422	
7.00 0.4325	5423	
11.00 0.7053	5424	
15.00 1.0245	5425	
20.00 1.3979	5426	
50.00 1.8334	5427	

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5421.00	.000	.00
.50	.00	5421.00	.000	.00
1.00	.00	5421.00	.000	.00
1.50	62.89	5424.13	.746	11.51

AHYMO-NOV13C-Output

2.00	16.46	5425.93	1.373	19.67
2.50	2.33	5424.75	.946	14.01
3.00	.88	5423.40	.541	8.59
3.50	.55	5422.43	.299	4.71
4.00	.46	5421.87	.174	2.62
4.50	.45	5421.54	.107	1.61
5.00	.46	5421.36	.071	1.07
5.50	.50	5421.27	.053	.80
6.00	.54	5421.22	.045	.67
6.50	.57	5421.21	.041	.62
7.00	.56	5421.20	.039	.59
7.50	.54	5421.19	.038	.57
8.00	.52	5421.18	.037	.55
8.50	.51	5421.18	.035	.53
9.00	.49	5421.17	.034	.52
9.50	.48	5421.17	.033	.50
10.00	.47	5421.16	.032	.49
10.50	.45	5421.16	.031	.47
11.00	.44	5421.15	.031	.46
11.50	.43	5421.15	.030	.45
12.00	.42	5421.15	.029	.44
12.50	.41	5421.14	.028	.43
13.00	.40	5421.14	.028	.41
13.50	.39	5421.14	.027	.41
14.00	.38	5421.13	.026	.40
14.50	.37	5421.13	.026	.39
15.00	.36	5421.13	.025	.38
15.50	.36	5421.12	.025	.37
16.00	.35	5421.12	.024	.36
16.50	.34	5421.12	.024	.36
17.00	.34	5421.12	.023	.35
17.50	.33	5421.11	.023	.34
18.00	.32	5421.11	.022	.34
18.50	.32	5421.11	.022	.33
19.00	.31	5421.11	.021	.32
19.50	.31	5421.11	.021	.32
20.00	.30	5421.10	.021	.31
20.50	.30	5421.10	.020	.31
21.00	.29	5421.10	.020	.30
21.50	.29	5421.10	.020	.30
22.00	.28	5421.10	.019	.29
22.50	.28	5421.10	.019	.29
23.00	.27	5421.09	.019	.28
23.50	.27	5421.09	.019	.28
24.00	.27	5421.09	.018	.27
24.50	.01	5421.06	.012	.19
25.00	.00	5421.03	.007	.10
25.50	.00	5421.02	.004	.05
26.00	.00	5421.01	.002	.03
26.50	.00	5421.01	.001	.02
27.00	.00	5421.00	.001	.01
27.50	.00	5421.00	.000	.00

PEAK DISCHARGE = 19.842 CFS - PEAK OCCURS AT HOUR 1.90

MAXIMUM WATER SURFACE ELEVATION = 5425.968

MAXIMUM STORAGE = 1.3861 AC-FT INCREMENTAL TIME= .100000HRS

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PRINT HYD

ID=51 CODE=10

AHYMO-N0V13C-Output
HYDROGRAPH FROM AREA POND.F5

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
18.000	.000	.0	24.000	6.000	.7	12.000	.4
19.000	.3	.0	25.000	7.000	.6	13.000	.4
20.000	1.000	19.7	26.000	8.000	.6	14.000	.4
21.000	.3	8.6	27.000	9.000	.5	15.000	.4
22.000	.3	2.6	28.000	10.000	.5	16.000	.4
23.000	.3	1.1	11.000	11.000	.5	17.000	.3

RUNOFF VOLUME = 2.07584 INCHES = 3.2649 ACRE-FEET
 PEAK DISCHARGE RATE = 19.84 CFS AT 1.900 HOURS BASIN AREA =
 .0295 SQ. MI.

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COMPUTE NM HYD ID=27 HYD NO=BASIN.F8 DA=.00781 SQ MI

%A=0.0 %B=18.0 %C=18.0 %D=64.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 19.734 CFS UNIT VOLUME = 1.029 B = 526.28
 P60 = 1.8400
 AREA = .004998 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 7.4759 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .002812 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=27 CODE=10

HYDROGRAPH FROM AREA BASIN.F8

TIME	FLOW	TIME	FLOW	TIME	FLOW
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AHYMO-N0V13C-Output

TIME HRS	FLOW HRS CFS	TIME HRS	FLOW HRS CFS	TIME HRS	FLOW HRS CFS
15.000	.000 .1	20.000	5.000 .1	10.000	.1
16.000	1.000 .1	21.000	6.000 .1	11.000	.1
17.000	2.000 .1	22.000	7.000 .1	12.000	.1
18.000	3.000 .1	23.000	8.000 .1	13.000	.1
19.000	4.000 .1	24.000	9.000 .1	14.000	.1

RUNOFF VOLUME = 1.84145 INCHES = .7670 ACRE-FEET
 PEAK DISCHARGE RATE = 15.89 CFS AT 1.500 HOURS BASIN AREA =
 .0078 SQ. MI.

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ADD HYD ID=78 HYD=PONDF5.F8 ID I=51 II=27
 PRINT HYD ID=78 CODE=10

HYDROGRAPH FROM AREA PONDF5.F8

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
18.000	.000 .4	.0	6.000 .3	.8	12.000	.5
19.000	1.000 .4	.0	7.000 .1	.7	13.000	.5
20.000	2.000 .4	23.2	8.000 .0	.7	14.000	.5
21.000	3.000 .4	8.8	9.000 .0	.6	15.000	.5
22.000	4.000 .4	2.7	10.000 .0	.6	16.000	.4
23.000	5.000 .3	1.2	11.000	.6	17.000	.4

RUNOFF VOLUME = 2.02672 INCHES = 4.0318 ACRE-FEET
 PEAK DISCHARGE RATE = 27.40 CFS AT 1.500 HOURS BASIN AREA =
 .0373 SQ. MI.

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*

COMPUTE RATING CURVE CID=1 VS N0=1 CODE=-1 SLP=0.003

AHYMO-N0V13C-Output
DIA=3.5 N=0.013

WIDTH	RATING CURVE PIPE SECTION			1.0 FLOW RATE	MAX FT
	WATER SURFACE	FLOW AREA			
	ELEV	SQ FT	CFS		
.00	.00	.00	.00		
1.56	.18	.19	.29		
2.14	.36	.53	1.25		
2.54	.55	.96	2.92		
2.84	.73	1.45	5.25		
3.07	.91	1.99	8.19		
3.25	1.09	2.57	11.69		
3.37	1.28	3.17	15.66		
3.45	1.46	3.80	20.02		
3.49	1.64	4.43	24.68		
3.50	1.82	5.07	29.54		
3.50	2.01	5.70	34.48		
3.50	2.19	6.33	39.40		
3.50	2.37	6.94	44.16		
3.50	2.55	7.52	48.62		
3.50	2.74	8.07	52.61		
3.50	2.92	8.57	55.93		
3.50	3.10	9.01	58.30		
3.50	3.28	9.37	59.28		
3.50	3.50	9.62	59.28		

ROUTE MCUNGE

ID=77 HYD=RTE.PONDF5 INFLOW ID=78

DT=0.0 L=590 NS=0 SLOPE=0.004

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 288				TABLE PTS= 19							
DT= .100000				QMED= 13.70				CKMED= 6.5759			
WIDTH MED= 3.31				NREACH= 1				DX= 590.00			
C2	DEPTH	AREA	Q	TRAVEL	WIDTH		ck	VEL	C	D	C1
	C3	Q-M	C1-M	C2-M	C3-M						
	(FT)	(SQ FT)	(CFS)	TIME(HR)	(FT)		(FPS)	(FPS)			
		(CFS)									

AHYMO-NOV13C-Output

.000	.000	.0	1.000	.147	.0	1.64	.71	1.000	.000	1.000
.215	-.191	.2	.986	.108	1.6	2.49	1.51	1.517	.032	.975
.368	-.323	.5	1.3	.069	2.1	3.43	2.36	2.094	.072	.954
.469	-.409	.7	.960	.284	-.244	4.35	3.04	2.651	.112	.941
.532	-.461	1.0	2.9	.054	2.5	5.12	3.61	3.121	.153	.928
.576	-.493	1.5	5.2	.423	-.369	5.77	4.11	3.521	.196	.917
.608	-.513	2.0	8.2	.045	2.8	6.33	4.55	3.861	.241	.905
.632	-.526	2.6	11.7	.036	3.2	6.80	4.93	4.147	.290	.893
.651	-.531	3.2	15.7	.594	-.505	7.18	5.27	4.382	.342	.880
.665	-.531	4.0	.934	.621	-.521	7.48	5.57	4.566	.400	.866
.675	-.524	4.4	24.7	.029	3.5	7.69	5.83	4.693	.465	.849
.681	-.508	22.3	.874	.659	-.532	7.74	6.05	4.724	.539	.828
.681	-.480	5.1	29.5	.028	3.5	7.60	6.22	4.635	.628	.799
.675	-.435	5.7	34.5	.671	-.529	7.24	6.37	4.416	.739	.760
.663	-.364	32.0	.840	.026	3.5	6.63	6.46	4.048	.887	.701
.644	-.248	6.3	39.4	.682	-.497	5.74	6.52	3.502	1.110	.604
.618	-.040	36.9	.815	.025	3.5	4.47	6.53	2.727	1.515	.422
.622	.397	6.9	44.2	.632	-.167	2.62	6.47	1.597	2.697	-.019
.702	.729	54.3	.535	.026	3.5	1.49	6.32	.910	4.811	-.432
		58.8	-.228	.663	.565					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 3 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.0849
 Equations solved using the Ponce correction to C2
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PRINT HYD

ID=77 CODE=0

HYDROGRAPH FROM AREA RTE.PONDF5

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	CFS
	HRS			HRS		
	CFS			CFS		
17.400	.000	.0	23.200	5.800	.8	11.600
	.4	.0		.3	.8	.5
17.500	.100	.0	23.300	5.900	.8	.5
	.4	.0		.3	.8	.5
17.600	.200	.0	23.400	6.000	.8	.5
	.4	.0		.3	.8	.5
17.700	.300	.0	23.500	6.100	.8	.5
	.4	.0		.3	.8	.5
17.800	.400	.0	23.600	6.200	.8	.5
	.4	.0		.3		

AHYMO-NOV13C-Output						
17.900	.500	.0	6.300	.8	12.100	.5
	.4	23.700	.3			
18.000	.600	.0	6.400	.8	12.200	.5
	.4	23.800	.3			
18.100	.700	.0	6.500	.7	12.300	.5
	.4	23.900	.3			
18.200	.800	.0	6.600	.7	12.400	.5
	.4	24.000	.3			
18.300	.900	.0	6.700	.7	12.500	.5
	.4	24.100	.3			
18.400	1.000	.0	6.800	.7	12.600	.5
	.4	24.200	.3			
18.500	1.100	.0	6.900	.7	12.700	.5
	.4	24.300	.3			
18.600	1.200	.5	7.000	.7	12.800	.5
	.4	24.400	.2			
18.700	1.300	4.2	7.100	.7	12.900	.5
	.4	24.500	.2			
18.800	1.400	15.4	7.200	.7	13.000	.5
	.4	24.600	.2			
18.900	1.500	26.9	7.300	.7	13.100	.5
	.4	24.700	.2			
19.000	1.600	27.3	7.400	.7	13.200	.5
	.4	24.800	.1			
19.100	1.700	26.0	7.500	.7	13.300	.5
	.4	24.900	.1			
19.200	1.800	25.2	7.600	.7	13.400	.5
	.4	25.000	.1			
19.300	1.900	24.4	7.700	.7	13.500	.5
	.4	25.100	.1			
19.400	2.000	23.5	7.800	.7	13.600	.5
	.4	25.200	.1			
19.500	2.100	21.8	7.900	.7	13.700	.5
	.4	25.300	.1			
19.600	2.200	19.6	8.000	.7	13.800	.5
	.4	25.400	.1			
19.700	2.300	17.9	8.100	.7	13.900	.5
	.4	25.500	.1			
19.800	2.400	16.3	8.200	.7	14.000	.5
	.4	25.600	.1			
19.900	2.500	14.8	8.300	.7	14.100	.5
	.4	25.700	.0			
20.000	2.600	13.5	8.400	.6	14.200	.5
	.4	25.800	.0			
20.100	2.700	12.3	8.500	.6	14.300	.5
	.4	25.900	.0			
20.200	2.800	11.2	8.600	.6	14.400	.5
	.4	26.000	.0			
20.300	2.900	10.1	8.700	.6	14.500	.5
	.4	26.100	.0			
20.400	3.000	9.0	8.800	.6	14.600	.5
	.4	26.200	.0			
20.500	3.100	8.1	8.900	.6	14.700	.5
	.4	26.300	.0			
20.600	3.200	7.3	9.000	.6	14.800	.5
	.4	26.400	.0			
20.700	3.300	6.5	9.100	.6	14.900	.5
	.4	26.500	.0			
20.800	3.400	5.7	9.200	.6	15.000	.5
	.4	26.600	.0			
20.900	3.500	5.0	9.300	.6	15.100	.5
	.4	26.700	.0			
	3.600	4.4	9.400	.6	15.200	.5

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21.000	.4	26.800	.0			
	3.700	3.9	9.500	.6	15.300	.5
21.100	.4	26.900	.0			
	3.800	3.5	9.600	.6	15.400	.5
21.200	.4	27.000	.0			
	3.900	3.1	9.700	.6	15.500	.4
21.300	.4	27.100	.0			
	4.000	2.8	9.800	.6	15.600	.4
21.400	.4	27.200	.0			
	4.100	2.6	9.900	.6	15.700	.4
21.500	.4	27.300	.0			
	4.200	2.3	10.000	.6	15.800	.4
21.600	.4	27.400	.0			
	4.300	2.1	10.100	.6	15.900	.4
21.700	.4	27.500	.0			
	4.400	1.9	10.200	.6	16.000	.4
21.800	.4	27.600	.0			
	4.500	1.8	10.300	.6	16.100	.4
21.900	.4	27.700	.0			
	4.600	1.6	10.400	.6	16.200	.4
22.000	.4	27.800	.0			
	4.700	1.5	10.500	.6	16.300	.4
22.100	.4	27.900	.0			
	4.800	1.4	10.600	.6	16.400	.4
22.200	.4	28.000	.0			
	4.900	1.3	10.700	.6	16.500	.4
22.300	.4	28.100	.0			
	5.000	1.2	10.800	.6	16.600	.4
22.400	.4	28.200	.0			
	5.100	1.1	10.900	.6	16.700	.4
22.500	.3	28.300	.0			
	5.200	1.1	11.000	.6	16.800	.4
22.600	.3	28.400	.0			
	5.300	1.0	11.100	.6	16.900	.4
22.700	.3	28.500	.0			
	5.400	1.0	11.200	.6	17.000	.4
22.800	.3	28.600	.0			
	5.500	.9	11.300	.5	17.100	.4
22.900	.3	28.700	.0			
	5.600	.9	11.400	.5	17.200	.4
23.000	.3	28.800	.0			
	5.700	.9	11.500	.5	17.300	.4
23.100	.3					

RUNOFF VOLUME = 2.02709 INCHES = 4.0325 ACRE-FEET
 PEAK DISCHARGE RATE = 27.34 CFS AT 1.600 HOURS BASIN AREA =
 .0373 SQ. MI.

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ADD HYD ID=78 HYD=F1T0F8 ID I=77 II=70

PRINT HYD ID=78 CODE=10

HYDROGRAPH FROM AREA F1T0F8

TIME	FLOW	TIME	FLOW	TIME	FLOW
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AHYMO-N0V13C-Output

TIME	FLOW	TIME	FLOW			
HRS	HRS	CFS	HRS	CFS	HRS	CFS
	.000	.0	12.000	18.1	24.000	3.1
36.000	.0	48.000	.0			
	1.000	.0	13.000	16.0	25.000	.5
37.000	.0	49.000	.0			
	2.000	92.4	14.000	13.5	26.000	.3
38.000	.0	50.000	.0			
	3.000	32.2	15.000	11.7	27.000	.2
39.000	.0	51.000	.0			
	4.000	24.4	16.000	9.5	28.000	.2
40.000	.0	52.000	.0			
	5.000	22.5	17.000	7.8	29.000	.1
41.000	.0	53.000	.0			
	6.000	22.1	18.000	6.8	30.000	.1
42.000	.0	54.000	.0			
	7.000	21.8	19.000	6.0	31.000	.1
43.000	.0	55.000	.0			
	8.000	21.4	20.000	5.4	32.000	.1
44.000	.0	56.000	.0			
	9.000	21.1	21.000	4.5	33.000	.1
45.000	.0					
	10.000	20.8	22.000	3.8	34.000	.1
46.000	.0					
	11.000	20.2	23.000	3.4	35.000	.0
47.000	.0					

RUNOFF VOLUME = 1.29199 INCHES = 38.6996 ACRE-FEET
 PEAK DISCHARGE RATE = 262.09 CFS AT 1.500 HOURS BASIN AREA =
 .5616 SQ. MI.

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DIVIDE HYD ID=78 Q=6.20 ID I=31 HYD N0=BYPASS.F
 ID II=32 HYD N0=SURGE.F
 PRINT HYD ID=31 CODE=10

HYDROGRAPH FROM AREA BYPASS.F

TIME	FLOW	TIME	FLOW	TIME	FLOW	
HRS	HRS	CFS	HRS	CFS	HRS	
	.000	.0	12.000	6.2	24.000	3.1
36.000	.0	48.000	.0			
	1.000	.0	13.000	6.2	25.000	.5
37.000	.0	49.000	.0			
	2.000	6.2	14.000	6.2	26.000	.3
38.000	.0	50.000	.0			
	3.000	6.2	15.000	6.2	27.000	.2
39.000	.0	51.000	.0			
	4.000	6.2	16.000	6.2	28.000	.2
40.000	.0	52.000	.0			
	5.000	6.2	17.000	6.2	29.000	.1

AHYMO-NOV13C-Output

41.000	.0	53.000	.0			
	6.000	6.2	18.000	6.2	30.000	.1
42.000	.0	54.000	.0			
	7.000	6.2	19.000	6.0	31.000	.1
43.000	.0	55.000	.0			
	8.000	6.2	20.000	5.4	32.000	.1
44.000	.0	56.000	.0			
	9.000	6.2	21.000	4.5	33.000	.1
45.000	.0					
	10.000	6.2	22.000	3.8	34.000	.1
46.000	.0					
	11.000	6.2	23.000	3.4	35.000	.0
47.000	.0					

RUNOFF VOLUME = 1.29199 INCHES = 11.1874 ACRE-FEET
 PEAK DISCHARGE RATE = 6.20 CFS AT 1.200 HOURS BASIN AREA =
 .1624 SQ. MI.

PRINT HYD

ID=32 CODE=10

HYDROGRAPH FROM AREA SURGE.F

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	.000	.0		4.000	18.2	8.000	15.2
12.000	11.9		16.000	3.3			
	1.000	.0		5.000	16.3	9.000	14.9
13.000	9.8		17.000	1.6			
	2.000	86.2		6.000	15.9	10.000	14.6
14.000	7.3		18.000	.6			
	3.000	26.0		7.000	15.6	11.000	14.0
15.000	5.5						

RUNOFF VOLUME = 1.29199 INCHES = 27.5122 ACRE-FEET
 PEAK DISCHARGE RATE = 255.89 CFS AT 1.500 HOURS BASIN AREA =
 .3993 SQ. MI.

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ROUTE RESERVOIR

ID=52 HYD=POND.F INFLOW ID=32 CODE=6.3

OUTFLOW	STORAGE	DEPTH
0	0	5415.08
3.80 0.25		5416.0
6.52 0.55		5417.0
8.74 1.69		5418.0

AHYMO-NOV13C-Output

10.68	3.08	5419.0
12.41	4.54	5420.0
14.00	6.08	5421.0
15.47	7.70	5422.0
16.85	9.39	5423.0
18.29	11.16	5424.0
18.60	11.76	5424.33
100.00	13.02	5425.0

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5415.08	.000	.00
.60	.00	5415.08	.000	.00
1.20	19.73	5415.36	.077	1.17
1.80	117.71	5421.76	7.306	15.11
2.40	40.14	5423.37	10.039	17.38
3.00	26.01	5423.76	10.742	17.95
3.60	20.12	5423.89	10.973	18.14
4.20	17.59	5423.91	10.998	18.16
4.80	16.51	5423.88	10.940	18.11
5.40	16.03	5423.82	10.849	18.04
6.00	15.87	5423.77	10.748	17.95
6.60	15.77	5423.71	10.645	17.87
7.20	15.54	5423.65	10.537	17.78
7.80	15.31	5423.58	10.422	17.69
8.40	15.10	5423.51	10.301	17.59
9.00	14.90	5423.44	10.175	17.49
9.60	14.69	5423.37	10.044	17.38
10.20	14.48	5423.29	9.908	17.27
10.80	14.24	5423.21	9.766	17.16
11.40	13.08	5423.12	9.599	17.02
12.00	11.92	5422.99	9.379	16.84
12.60	10.79	5422.84	9.112	16.62
13.20	9.21	5422.65	8.792	16.36
13.80	7.73	5422.42	8.407	16.05
14.40	6.50	5422.16	7.972	15.69
15.00	5.46	5421.88	7.500	15.29
15.60	4.09	5421.56	6.995	14.83
16.20	2.85	5421.22	6.443	14.33
16.80	1.92	5420.86	5.864	13.78
17.40	1.16	5420.48	5.272	13.17
18.00	.57	5420.09	4.677	12.55
18.60	.10	5419.69	4.088	11.87
19.20	.00	5419.30	3.516	11.20
19.80	.00	5418.93	2.977	10.54
20.40	.00	5418.56	2.473	9.83
21.00	.00	5418.22	2.001	9.17
21.60	.00	5417.89	1.562	8.49
22.20	.00	5417.54	1.161	7.71
22.80	.00	5417.22	.797	7.00
23.40	.00	5416.73	.470	5.79
24.00	.00	5415.96	.239	3.63

AHYMO-NOV13C-Output

24.60	.00	5415.49	.112	1.71
25.20	.00	5415.27	.053	.80
25.80	.00	5415.17	.025	.38
26.40	.00	5415.12	.012	.18
27.00	.00	5415.10	.005	.08
27.60	.00	5415.09	.003	.04
28.20	.00	5415.08	.001	.02
28.80	.00	5415.08	.001	.01
29.40	.00	5415.08	.000	.00
30.00	.00	5415.08	.000	.00
30.60	.00	5415.08	.000	.00
31.20	.00	5415.08	.000	.00
31.80	.00	5415.08	.000	.00
32.40	.00	5415.08	.000	.00
33.00	.00	5415.08	.000	.00

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
33.60	.00	5415.08	.000	.00
34.20	.00	5415.08	.000	.00
34.80	.00	5415.08	.000	.00
35.40	.00	5415.08	.000	.00
36.00	.00	5415.08	.000	.00
36.60	.00	5415.08	.000	.00
37.20	.00	5415.08	.000	.00
37.80	.00	5415.08	.000	.00
38.40	.00	5415.08	.000	.00
39.00	.00	5415.08	.000	.00
39.60	.00	5415.08	.000	.00
40.20	.00	5415.08	.000	.00
40.80	.00	5415.08	.000	.00
41.40	.00	5415.08	.000	.00
42.00	.00	5415.08	.000	.00
42.60	.00	5415.08	.000	.00
43.20	.00	5415.08	.000	.00
43.80	.00	5415.08	.000	.00
44.40	.00	5415.08	.000	.00
45.00	.00	5415.08	.000	.00
45.60	.00	5415.08	.000	.00
46.20	.00	5415.08	.000	.00
46.80	.00	5415.08	.000	.00
47.40	.00	5415.08	.000	.00
48.00	.00	5415.08	.000	.00
48.60	.00	5415.08	.000	.00
49.20	.00	5415.08	.000	.00
49.80	.00	5415.08	.000	.00
50.40	.00	5415.08	.000	.00
51.00	.00	5415.08	.000	.00
51.60	.00	5415.08	.000	.00
52.20	.00	5415.08	.000	.00
52.80	.00	5415.08	.000	.00
53.40	.00	5415.08	.000	.00
54.00	.00	5415.08	.000	.00
54.60	.00	5415.08	.000	.00
55.20	.00	5415.08	.000	.00
55.80	.00	5415.08	.000	.00
56.40	.00	5415.08	.000	.00
57.00	.00	5415.08	.000	.00
57.60	.00	5415.08	.000	.00
58.20	.00	5415.08	.000	.00
58.80	.00	5415.08	.000	.00
59.40	.00	5415.08	.000	.00

AHYMO-NOV13C-Output

60.00	.00	5415.08	.000	.00
60.60	.00	5415.08	.000	.00
61.20	.00	5415.08	.000	.00
61.80	.00	5415.08	.000	.00
62.40	.00	5415.08	.000	.00
63.00	.00	5415.08	.000	.00
63.60	.00	5415.08	.000	.00
64.20	.00	5415.08	.000	.00
64.80	.00	5415.08	.000	.00
65.40	.00	5415.08	.000	.00
66.00	.00	5415.08	.000	.00
66.60	.00	5415.08	.000	.00

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
67.20	.00	5415.08	.000	.00
67.80	.00	5415.08	.000	.00
68.40	.00	5415.08	.000	.00
69.00	.00	5415.08	.000	.00
69.60	.00	5415.08	.000	.00
70.20	.00	5415.08	.000	.00
70.80	.00	5415.08	.000	.00
71.40	.00	5415.08	.000	.00
72.00	.00	5415.08	.000	.00
72.60	.00	5415.08	.000	.00
73.20	.00	5415.08	.000	.00
73.80	.00	5415.08	.000	.00
74.40	.00	5415.08	.000	.00
75.00	.00	5415.08	.000	.00
75.60	.00	5415.08	.000	.00
76.20	.00	5415.08	.000	.00
76.80	.00	5415.08	.000	.00
77.40	.00	5415.08	.000	.00
78.00	.00	5415.08	.000	.00
78.60	.00	5415.08	.000	.00
79.20	.00	5415.08	.000	.00
79.80	.00	5415.08	.000	.00
80.40	.00	5415.08	.000	.00
81.00	.00	5415.08	.000	.00
81.60	.00	5415.08	.000	.00
82.20	.00	5415.08	.000	.00
82.80	.00	5415.08	.000	.00
83.40	.00	5415.08	.000	.00
84.00	.00	5415.08	.000	.00
84.60	.00	5415.08	.000	.00
85.20	.00	5415.08	.000	.00
85.80	.00	5415.08	.000	.00
86.40	.00	5415.08	.000	.00
87.00	.00	5415.08	.000	.00
87.60	.00	5415.08	.000	.00
88.20	.00	5415.08	.000	.00
88.80	.00	5415.08	.000	.00
89.40	.00	5415.08	.000	.00
90.00	.00	5415.08	.000	.00
90.60	.00	5415.08	.000	.00
91.20	.00	5415.08	.000	.00
91.80	.00	5415.08	.000	.00
92.40	.00	5415.08	.000	.00
93.00	.00	5415.08	.000	.00
93.60	.00	5415.08	.000	.00
94.20	.00	5415.08	.000	.00
94.80	.00	5415.08	.000	.00

AHYMO-NOV13C-Output

95.40	.00	5415.08	.000	.00
96.00	.00	5415.08	.000	.00
96.60	.00	5415.08	.000	.00
97.20	.00	5415.08	.000	.00
97.80	.00	5415.08	.000	.00
98.40	.00	5415.08	.000	.00
99.00	.00	5415.08	.000	.00
99.60	.00	5415.08	.000	.00
100.20	.00	5415.08	.000	.00

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
100.80	.00	5415.08	.000	.00
101.40	.00	5415.08	.000	.00
102.00	.00	5415.08	.000	.00
102.60	.00	5415.08	.000	.00
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
103.20	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
103.80	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
104.40	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
105.00	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
105.60	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
106.20	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
106.80	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
107.40	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
108.00	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
108.60	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
109.20	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
109.80	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
110.40	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
111.00	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
111.60	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
112.20	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
112.80	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
113.40	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
114.00	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
114.60	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
115.20	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
115.80	.00	*****		
WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY				
116.40	.00	*****		

AHYMO-NOV13C-Output

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***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
117.00 .00*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
117.60 .00*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
118.20 .00*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
118.80 .00*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
119.40 .00*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
120.00 .00*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
120.60 .009301046.00*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
121.20 .006356123.00*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
121.80 .004344174.008160403.000*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
122.40 .002969625.005575129.000*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
123.00 .002030544.003808890.000*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
123.60 .001388970.002602208.000*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
124.20 .00 950652.401777813.000*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
124.80 .00 651197.001214592.000*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
125.40 .00 446611.30 829803.500*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
126.00 .00 306839.80 566919.100*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
126.60 .00 211349.10 387318.500*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
127.20 .00 146110.50 264616.700*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
127.80 .00 101540.00 180787.700*****
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
128.40 .00 71089.78 123516.4007978811.00
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
129.00 .00 50286.42 84389.1305451064.00
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
129.60 .00 36073.72 57657.6503724126.00
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
130.20 .00 26363.72 39394.9102544295.00
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
130.80 .00 19729.91 26917.9401738243.00
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
131.40 .00 15197.75 18393.7601187554.00
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
132.00 .00 12101.41 12570.110 811328.00
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
132.60 .00 9986.01 8591.441 554293.10
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
133.20 .00 8540.79 5873.242 378688.90
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***
133.80 .00 7553.42 4016.189 258717.40
***WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY***

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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AHYMO-NOV13C-Output

134.40	.00	6878.86	2747.464	176753.70
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
135.00	.00	6418.01	1880.681	120756.80
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
135.60	.00	6103.15	1288.502	82500.14
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
136.20	.00	5888.05	883.929	56363.47
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
136.80	.00	5741.09	607.528	38507.09
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
137.40	.00	5640.69	418.693	26307.75
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
138.00	.00	5572.10	289.682	17973.26
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
138.60	.00	5525.23	201.543	12279.19
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
139.20	.00	5493.22	141.327	8389.05
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
139.80	.00	5471.35	100.188	5731.34
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
140.40	.00	5456.40	72.082	3915.61
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
141.00	.00	5446.19	52.880	2675.11
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
141.60	.00	5439.22	39.762	1827.62
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
142.20	.00	5434.45	30.800	1248.61
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
142.80	.00	5431.20	24.676	853.04
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
143.40	.00	5428.97	20.493	582.79
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
144.00	.00	5427.45	17.635	398.16
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
144.60	.00	5426.42	15.683	272.02
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
145.20	.00	5425.71	14.349	185.84
WARNING - OUTFLOW	EXCEEDS RESERVOIR CAPACITY			
145.80	.00	5425.22	13.437	126.97
146.40	.00	5424.42	11.937	30.01
147.00	.00	5423.90	10.976	18.14
147.60	.00	5423.40	10.095	17.42
148.20	.00	5422.92	9.248	16.73
148.80	.00	5422.43	8.435	16.07
149.40	.00	5421.97	7.654	15.43
150.00	.00	5421.51	6.906	14.75
150.60	.00	5421.07	6.190	14.10
151.20	.00	5420.63	5.508	13.41
151.80	.00	5420.21	4.860	12.74
152.40	.00	5419.80	4.245	12.06
153.00	.00	5419.40	3.664	11.37
153.60	.00	5419.02	3.116	10.72
154.20	.00	5418.66	2.602	10.01
154.80	.00	5418.31	2.122	9.34
155.40	.00	5417.99	1.675	8.71
156.00	.00	5417.63	1.263	7.91
156.60	.00	5417.30	.889	7.18
157.20	.00	5417.00	.550	6.52
157.80	.00	5416.13	.289	4.16
158.40	.00	5415.58	.137	2.08
159.00	.00	5415.32	.064	.98
159.60	.00	5415.19	.030	.46
160.20	.00	5415.13	.014	.22

AHYMO-N0V13C-Output

160.80	.00	5415.10	.007	.10
161.40	.00	5415.09	.003	.05
162.00	.00	5415.09	.001	.02
162.60	.00	5415.08	.001	.01
163.20	.00	5415.08	.000	.00

WARNING - OUTFLOW EXCEEDS RESERVOIR CAPACITY

PEAK DISCHARGE = ***** CFS - PEAK OCCURS AT HOUR 103.20

MAXIMUM WATER SURFACE ELEVATION = *****

MAXIMUM STORAGE = ***** AC-FT INCREMENTAL TIME= .300000HRS

*

*

PRINT HYD

ID=52 CODE=10

HYDROGRAPH FROM AREA POND.F

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		33.000	.0	66.000	.0
99.000	.0		132.000	811328.0	.0	69.000	.0
	3.000	17.9		36.000	.0		
102.000	.0		135.000	120756.8	.0	72.000	.0
	6.000	18.0		39.000	.0		
105.000*****			138.000	17973.3	.0	75.000	.0
	9.000	17.5		42.000	.0		
108.000*****			141.000	2675.1	.0	78.000	.0
	12.000	16.8		45.000	.0		
111.000*****			144.000	398.2	.0	81.000	.0
	15.000	15.3		48.000	.0		
114.000*****			147.000	18.1	.0	84.000	.0
	18.000	12.6		51.000	.0		
117.000*****			150.000	14.7	.0	87.000	.0
	21.000	9.2		54.000	.0		
120.000*****			153.000	11.4	.0	90.000	.0
	24.000	3.6		57.000	.0		
123.000*****			156.000	7.9	.0	93.000	.0
	27.000	.1		60.000	.0		
126.00036624020.0			159.000	1.0	.0	96.000	.0
	30.000	.0		63.000	.0		
129.000 5451064.0			162.000	.0			

RUNOFF VOLUME = ***** INCHES

=***** ACRE-FEET

PEAK DISCHARGE RATE =***** CFS AT 103.200 HOURS BASIN AREA =

.3993 SQ. MI.

*

*

ADD HYD

ID=53 HYD=BYPASSF.PONDF ID I=31 II=52

PRINT HYD

ID=53 CODE=10

HYDROGRAPH FROM AREA BYPASSF.PONDF

AHYMO-N0V13C-Output

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
36.000	.000	.0	48.000	12.000	23.0	24.000	6.7
	.0			.0			
37.000	1.000	.4	49.000	13.000	22.7	25.000	1.6
	.0			.0			
38.000	2.000	22.4	50.000	14.000	22.1	26.000	.6
	.0			.0			
39.000	3.000	24.1	51.000	15.000	21.5	27.000	.3
	.0			.0			
40.000	4.000	24.4	52.000	16.000	20.7	28.000	.2
	.0			.0			
41.000	5.000	24.3	53.000	17.000	19.8	29.000	.2
	.0			.0			
42.000	6.000	24.2	54.000	18.000	18.8	30.000	.1
	.0			.0			
43.000	7.000	24.0	55.000	19.000	17.4	31.000	.1
	.0			.0			
44.000	8.000	23.9	56.000	20.000	15.7	32.000	.1
	.0			.0			
45.000	9.000	23.7		21.000	13.7	33.000	.1
	.0						
46.000	10.000	23.5		22.000	11.8	34.000	.1
	.0						
47.000	11.000	23.3		23.000	10.1	35.000	.0
	.0						

RUNOFF VOLUME = 1.29146 INCHES = 38.6836 ACRE-Feet
 PEAK DISCHARGE RATE = 24.36 CFS AT 3.900 HOURS BASIN AREA =
 .5616 SQ. MI.

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*

COMPUTE RATING CURVE CID=1 VS N0=1 CODE=-1 SLP=0.004

DIA=2.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE	FLOW AREA	1.0 FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
.89	.10	.06	.08	
1.22	.21	.17	.33	
1.45	.31	.31	.76	
1.62	.42	.47	1.36	
1.76	.52	.65	2.13	

AHYMO-NOV13C-Output

1.85	.63	.84	3.03
1.93	.73	1.04	4.07
1.97	.83	1.24	5.20
2.00	.94	1.45	6.41
2.00	1.04	1.66	7.67
2.00	1.15	1.86	8.95
2.00	1.25	2.07	10.23
2.00	1.35	2.27	11.47
2.00	1.46	2.46	12.62
2.00	1.56	2.63	13.66
2.00	1.67	2.80	14.52
2.00	1.77	2.94	15.14
2.00	1.88	3.06	15.39
2.00	2.00	3.14	15.39

ROUTE MCUNGE

ID=77 HYD=RTE.PONDF INFLOW ID=53

DT=0.0 L=850 NS=0 SLOPE=0.004

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 565

TABLE PTS= 19

DT= .100000

QMED=

12.18

CKMED=

6.0826

WIDTH MED=

2.00

NREACH= 1

DX=

850.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.267	.0	2.36	.57	1.000	.000	1.000
.000	.10	.1	.1	.196	.9	2.34	1.20	.989	.011	.989
.000	.011	.0	.998	.000	.002	2.73	1.88	1.156	.029	.974
.084	-.058	.2	.983	.035	-.018	3.46	2.41	1.463	.044	.965
.202	-.167	.5	.968	.147	-.116	4.07	2.87	1.723	.061	.956
.281	-.238	1.0	.960	.245	-.205	4.59	3.27	1.943	.078	.949
.338	-.287	1.7	.952	.312	-.264	5.03	3.62	2.131	.096	.941
.380	-.321	2.6	.945	.361	-.306	5.40	3.92	2.289	.115	.932
.412	-.345	3.5	.937	.398	-.335	5.71	4.19	2.418	.136	.924
.437	-.361	4.6	.928	.426	-.355	5.95	4.43	2.520	.159	.914
.456	-.370	5.8	.919	.448	-.367					

AHYMO-NOV13C-Output

	1.04	1.7	7.7	.051	2.0	6.12	4.63	2.590	.184	.902
.470	-.372	7.0	.909	.465	-.373					
	1.15	1.9	9.0	.049	2.0	6.16	4.81	2.607	.214	.888
.477	-.365	8.3	.896	.475	-.371					
	1.25	2.1	10.2	.048	2.0	6.04	4.95	2.558	.249	.869
.475	-.344	9.6	.880	.477	-.357					
	1.35	2.3	11.5	.047	2.0	5.75	5.06	2.437	.293	.843
.464	-.307	10.8	.858	.471	-.329					
	1.46	2.5	12.6	.046	2.0	5.27	5.14	2.234	.352	.804
.442	-.246	12.0	.826	.455	-.281					
	1.56	2.6	13.7	.046	2.0	4.56	5.18	1.933	.440	.739
.407	-.146	13.1	.777	.428	-.205					
	1.67	2.8	14.5	.046	2.0	3.55	5.19	1.505	.601	.613
.356	.031	14.1	.692	.385	-.077					
	1.77	2.9	15.1	.046	2.0	2.08	5.14	.881	1.070	.275
.322	.403	14.8	.507	.331	.162					
	1.88	3.1	15.4	.047	2.0	1.19	5.03	.502	1.908	-.119
.414	.705	15.3	.076	.369	.556					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 4 OCCURRED 1 TIMES.

AVERAGE NUMBER ITERATIONS = 1.3723

Equations solved using the Ponce correction to C2

*

PRINT HYD

ID=77 CODE=0

HYDROGRAPH FROM AREA RTE.PONDF

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
	.000	.0	11.400	23.3	22.800	10.5
34.200	.1	45.600	.0	23.2	22.900	10.4
34.300	.1	45.700	.0	23.2	23.000	10.2
34.400	.200	.0	45.800	.0	23.100	10.1
34.500	.300	.0	45.900	.0	23.200	9.8
34.600	.400	.0	46.000	.0	23.300	9.5
34.700	.500	.0	46.100	.0	23.400	9.2
34.800	.600	.0	46.200	.0	23.500	8.8
34.900	.700	.0	46.300	.0	23.600	8.3
35.000	.800	.0	46.400	.0	23.700	7.9
35.100	.900	.0	46.500	.0	23.800	7.6
35.200	1.000	.0	46.600	.0	23.900	7.2
35.300	1.100	.8	46.700	.0	24.000	6.9
35.400	1.200	4.7	46.800	.0	24.100	6.2
35.500	1.300	9.9	46.900	.0	24.200	5.1
35.600	1.400	12.3	47.000	.0		

			AHYMO-NOV13C-Output			
	1.500	14.9	12.900	22.8	24.300	4.1
35.700	.0	47.100	.0			
	1.600	16.1	13.000	22.7	24.400	3.4
35.800	.0	47.200	.0			
	1.700	17.4	13.100	22.7	24.500	3.0
35.900	.0	47.300	.0			
	1.800	18.7	13.200	22.6	24.600	2.6
36.000	.0	47.400	.0			
	1.900	19.7	13.300	22.6	24.700	2.3
36.100	.0	47.500	.0			
	2.000	20.6	13.400	22.6	24.800	2.1
36.200	.0	47.600	.0			
	2.100	21.3	13.500	22.5	24.900	1.8
36.300	.0	47.700	.0			
	2.200	21.9	13.600	22.5	25.000	1.7
36.400	.0	47.800	.0			
	2.300	22.3	13.700	22.4	25.100	1.5
36.500	.0	47.900	.0			
	2.400	22.7	13.800	22.4	25.200	1.4
36.600	.0	48.000	.0			
	2.500	23.0	13.900	22.3	25.300	1.2
36.700	.0	48.100	.0			
	2.600	23.3	14.000	22.2	25.400	1.1
36.800	.0	48.200	.0			
	2.700	23.5	14.100	22.2	25.500	1.0
36.900	.0	48.300	.0			
	2.800	23.6	14.200	22.1	25.600	.9
37.000	.0	48.400	.0			
	2.900	23.8	14.300	22.1	25.700	.9
37.100	.0	48.500	.0			
	3.000	23.9	14.400	22.0	25.800	.8
37.200	.0	48.600	.0			
	3.100	24.0	14.500	21.9	25.900	.7
37.300	.0	48.700	.0			
	3.200	24.1	14.600	21.9	26.000	.7
37.400	.0	48.800	.0			
	3.300	24.1	14.700	21.8	26.100	.6
37.500	.0	48.900	.0			
	3.400	24.2	14.800	21.8	26.200	.6
37.600	.0	49.000	.0			
	3.500	24.2	14.900	21.7	26.300	.5
37.700	.0	49.100	.0			
	3.600	24.3	15.000	21.6	26.400	.5
37.800	.0	49.200	.0			
	3.700	24.3	15.100	21.6	26.500	.5
37.900	.0	49.300	.0			
	3.800	24.3	15.200	21.5	26.600	.4
38.000	.0	49.400	.0			
	3.900	24.3	15.300	21.4	26.700	.4
38.100	.0	49.500	.0			
	4.000	24.3	15.400	21.3	26.800	.4
38.200	.0	49.600	.0			
	4.100	24.3	15.500	21.3	26.900	.4
38.300	.0	49.700	.0			
	4.200	24.3	15.600	21.2	27.000	.3
38.400	.0	49.800	.0			
	4.300	24.3	15.700	21.1	27.100	.3
38.500	.0	49.900	.0			
	4.400	24.3	15.800	21.0	27.200	.3
38.600	.0	50.000	.0			
	4.500	24.3	15.900	20.9	27.300	.3
38.700	.0	50.100	.0			
	4.600	24.3	16.000	20.9	27.400	.3

AHYMO-NOV13C-Output

38.800	.0	50.200	.0			
	4.700	24.3	16.100	20.8	27.500	.3
38.900	.0	50.300	.0			
	4.800	24.3	16.200	20.7	27.600	.3
39.000	.0	50.400	.0			
	4.900	24.3	16.300	20.6	27.700	.2
39.100	.0	50.500	.0			
	5.000	24.3	16.400	20.5	27.800	.2
39.200	.0	50.600	.0			
	5.100	24.3	16.500	20.4	27.900	.2
39.300	.0	50.700	.0			
	5.200	24.3	16.600	20.3	28.000	.2
39.400	.0	50.800	.0			
	5.300	24.3	16.700	20.3	28.100	.2
39.500	.0	50.900	.0			
	5.400	24.3	16.800	20.2	28.200	.2
39.600	.0	51.000	.0			
	5.500	24.2	16.900	20.1	28.300	.2
39.700	.0	51.100	.0			
	5.600	24.2	17.000	20.0	28.400	.2
39.800	.0	51.200	.0			
	5.700	24.2	17.100	19.9	28.500	.2
39.900	.0	51.300	.0			
	5.800	24.2	17.200	19.8	28.600	.2
40.000	.0	51.400	.0			
	5.900	24.2	17.300	19.7	28.700	.2
40.100	.0	51.500	.0			
	6.000	24.2	17.400	19.6	28.800	.2
40.200	.0	51.600	.0			
	6.100	24.2	17.500	19.5	28.900	.2
40.300	.0	51.700	.0			
	6.200	24.2	17.600	19.4	29.000	.2
40.400	.0	51.800	.0			
	6.300	24.1	17.700	19.3	29.100	.2
40.500	.0	51.900	.0			
	6.400	24.1	17.800	19.2	29.200	.1
40.600	.0	52.000	.0			
	6.500	24.1	17.900	19.1	29.300	.1
40.700	.0	52.100	.0			
	6.600	24.1	18.000	19.0	29.400	.1
40.800	.0	52.200	.0			
	6.700	24.1	18.100	18.8	29.500	.1
40.900	.0	52.300	.0			
	6.800	24.1	18.200	18.7	29.600	.1
41.000	.0	52.400	.0			
	6.900	24.1	18.300	18.6	29.700	.1
41.100	.0	52.500	.0			
	7.000	24.0	18.400	18.5	29.800	.1
41.200	.0	52.600	.0			
	7.100	24.0	18.500	18.4	29.900	.1
41.300	.0	52.700	.0			
	7.200	24.0	18.600	18.3	30.000	.1
41.400	.0	52.800	.0			
	7.300	24.0	18.700	18.2	30.100	.1
41.500	.0	52.900	.0			
	7.400	24.0	18.800	18.0	30.200	.1
41.600	.0	53.000	.0			
	7.500	24.0	18.900	17.9	30.300	.1
41.700	.0	53.100	.0			
	7.600	24.0	19.000	17.7	30.400	.1
41.800	.0	53.200	.0			
	7.700	23.9	19.100	17.6	30.500	.1
41.900	.0	53.300	.0			

AHYMO-NOV13C-Output						
	7.800	23.9	19.200	17.4	30.600	.1
42.000	.0	53.400	.0			
	7.900	23.9	19.300	17.3	30.700	.1
42.100	.0	53.500	.0			
	8.000	23.9	19.400	17.1	30.800	.1
42.200	.0	53.600	.0			
	8.100	23.9	19.500	16.9	30.900	.1
42.300	.0	53.700	.0			
	8.200	23.9	19.600	16.7	31.000	.1
42.400	.0	53.800	.0			
	8.300	23.8	19.700	16.6	31.100	.1
42.500	.0	53.900	.0			
	8.400	23.8	19.800	16.4	31.200	.1
42.600	.0	54.000	.0			
	8.500	23.8	19.900	16.2	31.300	.1
42.700	.0	54.100	.0			
	8.600	23.8	20.000	16.1	31.400	.1
42.800	.0	54.200	.0			
	8.700	23.8	20.100	15.9	31.500	.1
42.900	.0	54.300	.0			
	8.800	23.8	20.200	15.7	31.600	.1
43.000	.0	54.400	.0			
	8.900	23.7	20.300	15.5	31.700	.1
43.100	.0	54.500	.0			
	9.000	23.7	20.400	15.2	31.800	.1
43.200	.0	54.600	.0			
	9.100	23.7	20.500	14.9	31.900	.1
43.300	.0	54.700	.0			
	9.200	23.7	20.600	14.6	32.000	.1
43.400	.0	54.800	.0			
	9.300	23.7	20.700	14.4	32.100	.1
43.500	.0	54.900	.0			
	9.400	23.7	20.800	14.1	32.200	.1
43.600	.0	55.000	.0			
	9.500	23.6	20.900	13.9	32.300	.1
43.700	.0	55.100	.0			
	9.600	23.6	21.000	13.8	32.400	.1
43.800	.0	55.200	.0			
	9.700	23.6	21.100	13.6	32.500	.1
43.900	.0	55.300	.0			
	9.800	23.6	21.200	13.4	32.600	.1
44.000	.0	55.400	.0			
	9.900	23.6	21.300	13.2	32.700	.1
44.100	.0	55.500	.0			
	10.000	23.5	21.400	13.0	32.800	.1
44.200	.0	55.600	.0			
	10.100	23.5	21.500	12.8	32.900	.1
44.300	.0	55.700	.0			
	10.200	23.5	21.600	12.6	33.000	.1
44.400	.0	55.800	.0			
	10.300	23.5	21.700	12.4	33.100	.1
44.500	.0	55.900	.0			
	10.400	23.5	21.800	12.2	33.200	.1
44.600	.0	56.000	.0			
	10.500	23.5	21.900	12.0	33.300	.1
44.700	.0	56.100	.0			
	10.600	23.4	22.000	11.9	33.400	.1
44.800	.0	56.200	.0			
	10.700	23.4	22.100	11.7	33.500	.1
44.900	.0	56.300	.0			
	10.800	23.4	22.200	11.5	33.600	.1
45.000	.0	56.400	.0			
	10.900	23.4	22.300	11.3	33.700	.1

AHYMO-NOV13C-Output

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
45.100	.0	56.500	.0	11.000	23.4	22.400	11.2
45.200	.0			11.100	23.3	22.500	11.0
45.300	.0			11.200	23.3	22.600	10.8
45.400	.0			11.300	23.3	22.700	10.7
45.500	.0						

RUNOFF VOLUME = 1.29051 INCHES = 38.6551 ACRE-FEET
 PEAK DISCHARGE RATE = 24.35 CFS AT 4.300 HOURS BASIN AREA =
 .5616 SQ. MI.

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*****RESERVE*****
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COMPUTE NM HYD ID=20 HYD NO=BASIN.G1 DA=.02531 SQ MI
 %A=0 %B=25.0 %C=25.0 %D=50.0
 TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 50.075 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .012655 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 33.725 CFS UNIT VOLUME = 1.007 B = 354.44
 P60 = 1.8400
 AREA = .012655 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=20 CODE=10

HYDROGRAPH FROM AREA BASIN.G1

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS		HRS	CFS
15.000	.000	.0	5.000	.3		10.000	.3
	.2						
	1.000	.0	6.000	.3		11.000	.2

AHYMO-N0V13C-Output

16.000	.2	21.000	.2		
	2.000	9.7	7.000	.3	12.000 .2
17.000	.2	22.000	.2		
	3.000	.5	8.000	.3	13.000 .2
18.000	.2	23.000	.1		
	4.000	.3	9.000	.3	14.000 .2
19.000	.2	24.000	.1		

RUNOFF VOLUME = 1.61331 INCHES = 2.1777 ACRE-FEET
 PEAK DISCHARGE RATE = 48.23 CFS AT 1.500 HOURS BASIN AREA =
 .0253 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS N0=1 CODE=-1 SLP=0.007

DIA=3.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION 1.0			MAX
	WATER SURFACE ELEV	FLOW AREA SQ FT	FLOW RATE CFS	
.00	.00	.00	.00	FT
1.33	.16	.14	.29	
1.83	.31	.39	1.27	
2.18	.47	.71	2.95	
2.44	.63	1.07	5.31	
2.63	.78	1.46	8.30	
2.78	.94	1.89	11.84	
2.89	1.09	2.33	15.86	
2.96	1.25	2.79	20.27	
2.99	1.41	3.26	24.99	
3.00	1.56	3.72	29.91	
3.00	1.72	4.19	34.92	
3.00	1.88	4.65	39.90	
3.00	2.03	5.10	44.72	
3.00	2.19	5.53	49.23	
3.00	2.35	5.93	53.27	
3.00	2.50	6.30	56.64	
3.00	2.66	6.62	59.04	

AHYMO-N0V13C-Output

3.00
3.00 2.81 6.89 60.03
3.00 3.00 7.07 60.03

ROUTE MCUNGE ID=78 HYD=RTE.G1 INFLOW ID=20
DT=0.0 L=580 NS=0 SLOPE=0.007

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

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PRINT HYD ID=78 CODE=0

HYDROGRAPH FROM AREA RTE.G1

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
15.000	.000	.0	20.000	5.000	.3	10.000	.3
15.100	.100	.0	20.100	5.100	.3	10.100	.2
15.200	.200	.0	20.200	5.200	.3	10.200	.3
15.300	.300	.0	20.300	5.300	.3	10.300	.2
15.400	.400	.0	20.400	5.400	.3	10.400	.2
15.500	.500	.0	20.500	5.500	.3	10.500	.2
15.600	.600	.0	20.600	5.600	.3	10.600	.2
15.700	.700	.0	20.700	5.700	.3	10.700	.2
15.800	.800	.0	20.800	5.800	.3	10.800	.2
15.900	.900	.0	20.900	5.900	.3	10.900	.2
16.000	1.000	.0	21.000	6.000	.3	11.000	.2
16.100	1.100	.2	21.100	6.100	.3	11.100	.2
16.200	1.200	3.2	21.200	6.200	.3	11.200	.2
16.300	1.300	12.4	21.300	6.300	.3	11.300	.2
16.400	1.400	41.1	21.400	6.400	.3	11.400	.2
16.500	1.500	48.2	21.500	6.500	.3	11.500	.2
16.600	1.600	33.6	21.600	6.600	.3	11.600	.2
16.700	1.700	21.8	21.700	6.700	.3	11.700	.2
16.800	1.800	15.8	21.800	6.800	.3	11.800	.2
	1.900	12.1		6.900	.3	11.900	.2

AHYMO-NOV13C-Output

16.900	.2	21.900	.2		
	2.000	9.7	7.000	.3	12.000
17.000	.2	22.000	.2		
	2.100	5.9	7.100	.3	12.100
17.100	.2	22.100	.2		
	2.200	3.5	7.200	.3	12.200
17.200	.2	22.200	.2		
	2.300	2.5	7.300	.3	12.300
17.300	.2	22.300	.2		
	2.400	1.9	7.400	.3	12.400
17.400	.2	22.400	.2		
	2.500	1.4	7.500	.3	12.500
17.500	.2	22.500	.2		
	2.600	1.1	7.600	.3	12.600
17.600	.2	22.600	.2		
	2.700	.9	7.700	.3	12.700
17.700	.2	22.700	.2		
	2.800	.7	7.800	.3	12.800
17.800	.2	22.800	.2		
	2.900	.6	7.900	.3	12.900
17.900	.2	22.900	.2		
	3.000	.5	8.000	.3	13.000
18.000	.2	23.000	.1		
	3.100	.5	8.100	.3	13.100
18.100	.2	23.100	.2		
	3.200	.4	8.200	.3	13.200
18.200	.2	23.200	.2		
	3.300	.4	8.300	.3	13.300
18.300	.2	23.300	.1		
	3.400	.3	8.400	.3	13.400
18.400	.2	23.400	.1		
	3.500	.3	8.500	.3	13.500
18.500	.2	23.500	.1		
	3.600	.3	8.600	.3	13.600
18.600	.2	23.600	.1		
	3.700	.3	8.700	.3	13.700
18.700	.2	23.700	.1		
	3.800	.3	8.800	.3	13.800
18.800	.2	23.800	.1		
	3.900	.3	8.900	.3	13.900
18.900	.2	23.900	.1		
	4.000	.3	9.000	.3	14.000
19.000	.2	24.000	.1		
	4.100	.2	9.100	.3	14.100
19.100	.2	24.100	.1		
	4.200	.2	9.200	.3	14.200
19.200	.2	24.200	.0		
	4.300	.2	9.300	.3	14.300
19.300	.2	24.300	.0		
	4.400	.2	9.400	.3	14.400
19.400	.2	24.400	.0		
	4.500	.2	9.500	.3	14.500
19.500	.2	24.500	.0		
	4.600	.2	9.600	.3	14.600
19.600	.2	24.600	.0		
	4.700	.2	9.700	.3	14.700
19.700	.2	24.700	.0		
	4.800	.2	9.800	.3	14.800
19.800	.2	24.800	.0		
	4.900	.2	9.900	.3	14.900
19.900	.2				

RUNOFF VOLUME = 1.61330 INCHES = 2.1777 ACRE-FEET
Page 123

PEAK DISCHARGE RATE = 48.23 CFS AT 1.500 HOURS BASIN AREA =
.0253 SQ. MI.

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*****SANTA FE 2*****

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COMPUTE NM HYD ID=21 HYD NO=BASIN.G2 DA=.02530 SQ MI

%A=0 %B=25.0 %C=25.0 %D=50.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 50.056 CFS UNIT VOLUME = 1.030 B = 526.28
P60 = 1.8400
AREA = .012650 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
CONSTANT, N = 3.989065
UNIT PEAK = 33.712 CFS UNIT VOLUME = 1.007 B = 354.44
P60 = 1.8400
AREA = .012650 SQ MI IA = .42500 INCHES INF = 1.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

PRINT HYD ID=21 CODE=10

HYDROGRAPH FROM AREA BASIN.G2

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		5.000	.3	10.000	.3
15.000	.2	.0	20.000	.2	.3	11.000	.2
16.000	1.000	.0		6.000	.3		
	.2	.0	21.000	.2	.3	12.000	.2
17.000	2.000	9.7		7.000	.3		
	.2	.5	22.000	.2	.3	13.000	.2
18.000	3.000	.3		8.000	.3		
	.2	.3	23.000	.1	.3	14.000	.2
19.000	4.000	.3		9.000	.3		
	.2	.3	24.000	.1	.3		

RUNOFF VOLUME = 1.61331 INCHES = 2.1769 ACRE-Feet
PEAK DISCHARGE RATE = 48.22 CFS AT 1.500 HOURS BASIN AREA =
.0253 SQ. MI.

AHYMO-N0V13C-Output

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ADD HYD

ID=30 HYD=G1.G2 ID I=78 II=21

PRINT HYD

ID=30 CODE=10

HYDROGRAPH FROM AREA G1.G2

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
15.000	.000 .4	.0	20.000	5.000 .3	.5	10.000 .5
16.000	1.000 .4	.0	21.000	6.000 .3	.6	11.000 .5
17.000	2.000 .4	19.4	22.000	7.000 .3	.6	12.000 .5
18.000	3.000 .4	1.0	23.000	8.000 .3	.6	13.000 .4
19.000	4.000 .3	.5	24.000	9.000 .3	.5	14.000 .4

RUNOFF VOLUME = 1.61330 INCHES = 4.3546 ACRE-FEET
 PEAK DISCHARGE RATE = 96.45 CFS AT 1.500 HOURS BASIN AREA =
 .0506 SQ. MI.

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ADD HYD

ID=31 HYD=G1G2.PONDF ID I=30 II=77

PRINT HYD

ID=31 CODE=10

HYDROGRAPH FROM AREA G1G2.PONDF

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
36.000	.000 .0	.0	48.000	12.000 .0	23.6	24.000 7.1
37.000	1.000 .0	.0	49.000	13.000 .0	23.2	25.000 1.7
38.000	2.000 .0	40.0	50.000	14.000 .0	22.7	26.000 .7
39.000	3.000 .0	24.9	51.000	15.000 .0	22.0	27.000 .3
40.000	4.000 .0	24.8	52.000	16.000 .0	21.2	28.000 .2
	5.000	24.8		17.000	20.3	29.000 .2

AHYMO-NOV13C-Output

41.000	.0	53.000	.0			
	6.000	24.8	18.000	19.3	30.000	.1
42.000	.0	54.000	.0			
	7.000	24.6	19.000	18.1	31.000	.1
43.000	.0	55.000	.0			
	8.000	24.5	20.000	16.4	32.000	.1
44.000	.0	56.000	.0			
	9.000	24.3	21.000	14.1	33.000	.1
45.000	.0					
	10.000	24.1	22.000	12.2	34.000	.1
46.000	.0					
	11.000	23.8	23.000	10.5	35.000	.0
47.000	.0					

RUNOFF VOLUME = 1.31719 INCHES = 43.0096 ACRE- FEET
 PEAK DISCHARGE RATE = 111.35 CFS AT 1.500 HOURS BASIN AREA =
 .6122 SQ. MI.

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DIVIDE HYD

ID=31 Q=17.86 ID I=32 HYD NO=BYPASS.G

ID II=33 HYD NO=SURGE.G

PRINT HYD

ID=32 CODE=10

HYDROGRAPH FROM AREA BYPASS.G

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0	12.000	17.9	24.000	7.1	
36.000	.0	48.000	.0				
	1.000	.0	13.000	17.9	25.000	1.7	
37.000	.0	49.000	.0				
	2.000	17.9	14.000	17.9	26.000	.7	
38.000	.0	50.000	.0				
	3.000	17.9	15.000	17.9	27.000	.3	
39.000	.0	51.000	.0				
	4.000	17.9	16.000	17.9	28.000	.2	
40.000	.0	52.000	.0				
	5.000	17.9	17.000	17.9	29.000	.2	
41.000	.0	53.000	.0				
	6.000	17.9	18.000	17.9	30.000	.1	
42.000	.0	54.000	.0				
	7.000	17.9	19.000	17.9	31.000	.1	
43.000	.0	55.000	.0				
	8.000	17.9	20.000	16.4	32.000	.1	
44.000	.0	56.000	.0				
	9.000	17.9	21.000	14.1	33.000	.1	
45.000	.0						
	10.000	17.9	22.000	12.2	34.000	.1	
46.000	.0						
	11.000	17.9	23.000	10.5	35.000	.0	

AHYMO-N0V13C-Output

47.000 .0

RUNOFF VOLUME = 1.31719 INCHES = 32.2686 ACRE-FEET
 PEAK DISCHARGE RATE = 17.86 CFS AT 1.300 HOURS BASIN AREA =
 .4593 SQ. MI.

PRINT HYD

ID=33 CODE=10

HYDROGRAPH FROM AREA SURGE.G

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
12.000	.000	.0	16.000	4.000	7.0	8.000	6.6
13.000	5.7	.0	17.000	3.4	7.0	9.000	6.4
14.000	1.000	.0	18.000	2.5	6.9	10.000	6.2
15.000	5.3	22.1	19.000	1.4	6.8	11.000	6.0
	2.000	7.1		7.000			
	4.8			.2			
	3.000						
	4.2						

RUNOFF VOLUME = 1.31719 INCHES = 10.7410 ACRE-FEET
 PEAK DISCHARGE RATE = 93.49 CFS AT 1.500 HOURS BASIN AREA =
 .1529 SQ. MI.

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ROUTE RESERVOIR ID=34 HYD=POND.G INFLOW ID=33 CODE=6.3

OUTFLOW	STORAGE	DEPTH
0	0	5415.67
2.47 0.23		5417.0
4.15 0.84		5418.0
5.71 1.83		5419.0
7.17 3.17		5420.0
8.55 4.70		5421.0
9.86 6.34		5422.0
10.18 7.21		5422.5
100.00 8.10		5423.0

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AHYMO-N0V13C-Output

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5415.67	.000	.00
.60	.00	5415.67	.000	.00
1.20	.00	5415.67	.000	.00
1.80	32.40	5419.41	2.385	6.31
2.40	8.58	5419.81	2.914	6.89
3.00	7.08	5419.83	2.946	6.93
3.60	6.99	5419.84	2.950	6.93
4.20	6.98	5419.84	2.953	6.93
4.80	6.96	5419.84	2.954	6.94
5.40	6.93	5419.84	2.955	6.94
6.00	6.91	5419.84	2.955	6.94
6.60	6.86	5419.84	2.953	6.93
7.20	6.75	5419.83	2.947	6.93
7.80	6.63	5419.82	2.935	6.91
8.40	6.52	5419.81	2.919	6.90
9.00	6.40	5419.80	2.898	6.87
9.60	6.27	5419.78	2.872	6.84
10.20	6.15	5419.75	2.841	6.81
10.80	6.02	5419.73	2.806	6.77
11.40	5.87	5419.70	2.766	6.73
12.00	5.70	5419.66	2.720	6.68
12.60	5.48	5419.63	2.668	6.62
13.20	5.22	5419.58	2.606	6.56
13.80	4.91	5419.53	2.534	6.48
14.40	4.56	5419.46	2.450	6.39
15.00	4.16	5419.39	2.353	6.28
15.60	3.71	5419.31	2.239	6.16
16.20	3.21	5419.21	2.109	6.01
16.80	2.67	5419.10	1.961	5.85
17.40	2.07	5418.96	1.793	5.65
18.00	1.45	5418.78	1.608	5.36
18.60	.78	5418.57	1.405	5.04
19.20	.00	5418.35	1.183	4.69
19.80	.00	5418.12	.959	4.34
20.40	.00	5417.86	.753	3.91
21.00	.00	5417.56	.572	3.41
21.60	.00	5417.30	.414	2.98
22.20	.00	5417.08	.276	2.60
22.80	.00	5416.62	.164	1.76
23.40	.00	5416.23	.096	1.03
24.00	.00	5416.00	.057	.61
24.60	.00	5415.86	.033	.36
25.20	.00	5415.78	.019	.21
25.80	.00	5415.74	.011	.12
26.40	.00	5415.71	.007	.07
27.00	.00	5415.69	.004	.04
27.60	.00	5415.68	.002	.02
28.20	.00	5415.68	.001	.01
28.80	.00	5415.67	.001	.01
29.40	.00	5415.67	.000	.01
30.00	.00	5415.67	.000	.00
30.60	.00	5415.67	.000	.00
31.20	.00	5415.67	.000	.00
PEAK DISCHARGE = 6.936 CFS - PEAK OCCURS AT HOUR 5.40				
MAXIMUM WATER SURFACE ELEVATION = 5419.839				
MAXIMUM STORAGE = 2.9550 AC-FT INCREMENTAL TIME= .300000HRS				

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AHYMO-N0V13C-Output

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PRINT HYD

ID=24 CODE=10

HYDROGRAPH FROM AREA BASIN.F5

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
15.000	.000	.0	20.000	5.000	.3	10.000	.3
16.000	.2	.0	21.000	6.000	.3	11.000	.3
17.000	1.000	9.5	22.000	7.000	.3	12.000	.3
18.000	.2	.5	23.000	8.000	.3	13.000	.2
19.000	2.000	.3	24.000	9.000	.3	14.000	.2
	.2			.2			

RUNOFF VOLUME = 2.02070 INCHES = 1.9959 ACRE-FEET
 PEAK DISCHARGE RATE = 39.52 CFS AT 1.500 HOURS BASIN AREA =
 .0185 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.006

DIA=3.0 N=0.013

WIDTH	RATING CURVE WATER SURFACE ELEV	PIPE SECTION FLOW AREA SQ FT	1.0 FLOW RATE CFS	MAX FT
.00	.00	.00	.00	
1.33	.16	.14	.27	
1.83	.31	.39	1.18	
2.18	.47	.71	2.73	
2.44	.63	1.07	4.92	
2.63	.78	1.46	7.68	
2.78	.94	1.89	10.96	
2.89	1.09	2.33	14.68	
2.96	1.25	2.79	18.77	
2.99	1.41	3.26	23.14	

AHYMO-N0V13C-Output

3.00	1.56	3.72	27.69
3.00	1.72	4.19	32.33
3.00	1.88	4.65	36.94
3.00	2.03	5.10	41.40
3.00	2.19	5.53	45.58
3.00	2.35	5.93	49.32
3.00	2.50	6.30	52.43
3.00	2.66	6.62	54.66
3.00	2.81	6.89	55.58
3.00	3.00	7.07	55.58

ROUTE MCUNGE

ID=78 HYD=RTE.PONDG INFLOW ID=34

DT=0.0 L=1440 NS=0 SLOPE=0.006

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 105
DT= .300000
WIDTH MED=

TABLE PTS= 19
QMED= 3.47
NREACH= 1

CKMED= 6.0369
DX= 1440.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.282	.0	1.33	.91	1.000	.000	1.000
.410	.16	.1	.3	.207	1.3	3.17	1.93	2.380	.007	.996
.535	-.405	.0	.997	.244	-.241	4.38	3.01	3.285	.017	.992
.614	.31	.4	1.2	.133	1.8	5.55	3.87	4.159	.026	.990
.663	-.527	.6	.993	.465	-.458	6.53	4.61	4.896	.036	.988
.696	.47	.7	2.7	.103	2.2	7.36	5.24	5.523	.046	.986
.719	-.604	1.9	.991	.578	-.569	8.08	5.80	6.057	.056	.984
.736	.63	1.1	4.9	.087	2.4	8.67	6.29	6.505	.068	.982
.749	-.651	3.8	.989	.641	-.630	9.16	6.73	6.873	.080	.980
.758	.78	1.5	7.7	.076	2.6	9.55	7.11	7.161	.094	.977
.762	-.682	6.2	.987	.681	-.668	9.82	7.44	7.362	.109	.974
.764	.94	1.9	11.0	.069	2.8	9.88	7.71	7.409	.126	.970
.766	-.703	9.3	.985	.708	-.693	9.69	7.94	7.271	.147	.965
.762	1.09	2.3	14.7	.064	2.9	9.24	8.12	6.927	.173	.957
.753	-.718	12.8	.983	.728	-.712					
	1.25	2.8	18.8	.059	3.0					
	-.728	16.7	.981	.743	-.724					
	1.41	3.3	23.1	.056	3.0					
	-.735	20.9	.979	.754	-.733					
	1.56	3.7	27.7	.054	3.0					
	-.738	25.4	.976	.762	-.738					
	1.72	4.2	32.3	.052	3.0					
	-.736	30.0	.973	.766	-.738					
	1.88	4.7	36.9	.050	3.0					
	-.727	34.6	.968	.765	-.733					
	2.03	5.1	41.4	.049	3.0					
	-.710	39.2	.962	.759	-.721					

AHYMO-NOV13C-Output

	2.19	5.5	45.6	.048	3.0	8.46	8.25	6.349	.208	.945
.735	-.680	43.5	.952	.746	-.698					
	2.35	5.9	49.3	.048	3.0	7.32	8.32	5.493	.260	.923
.704	-.627	47.5	.936	.723	-.659					
	2.50	6.3	52.4	.048	3.0	5.70	8.33	4.277	.355	.874
.645	-.519	50.9	.906	.681	-.587					
	2.66	6.6	54.7	.048	3.0	3.34	8.25	2.505	.631	.695
.516	-.211	53.6	.826	.600	-.425					
	2.81	6.9	55.6	.050	3.0	1.90	8.07	1.428	1.126	.366
.437	.197	55.1	.386	.437	.177					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 2 TIMES.

AVERAGE NUMBER ITERATIONS = 1.1143

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.282	.0	1.33	.91	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.16	.1	.3	.207	1.3	1.36	1.93	1.017	.017	.983
.017	.000	.0	.995	.005	.000					
	.31	.4	1.2	.133	1.8	1.40	3.01	1.053	.053	.950
.050	.000	.6	.967	.033	.000					
	.47	.7	2.7	.103	2.2	1.47	3.87	1.099	.099	.910
.090	.000	1.9	.929	.071	.000					
	.63	1.1	4.9	.087	2.4	1.54	4.61	1.152	.152	.868
.132	.000	3.8	.888	.112	.000					
	.78	1.5	7.7	.076	2.6	1.61	5.24	1.209	.209	.827
.173	.000	6.2	.847	.153	.000					
	.94	1.9	11.0	.069	2.8	1.69	5.80	1.269	.269	.788
.212	.000	9.3	.807	.193	.000					
	1.09	2.3	14.7	.064	2.9	1.78	6.29	1.331	.331	.751
.249	.000	12.8	.769	.231	.000					
	1.25	2.8	18.8	.059	3.0	1.86	6.73	1.395	.395	.717
.283	.000	16.7	.733	.267	.000					
	1.41	3.3	23.1	.056	3.0	1.95	7.11	1.460	.460	.685
.315	.000	20.9	.701	.299	.000					
	1.56	3.7	27.7	.054	3.0	2.03	7.44	1.525	.525	.656
.344	.000	25.4	.670	.330	.000					
	1.72	4.2	32.3	.052	3.0	2.12	7.71	1.589	.589	.629
.371	.000	30.0	.642	.358	.000					
	1.88	4.7	36.9	.050	3.0	2.20	7.94	1.648	.648	.607
.393	.000	34.6	.618	.382	.000					
	2.03	5.1	41.4	.049	3.0	2.27	8.12	1.703	.703	.587
.413	.000	39.2	.597	.403	.000					
	2.19	5.5	45.6	.048	3.0	2.34	8.25	1.753	.753	.571
.429	.000	43.5	.579	.421	.000					
	2.35	5.9	49.3	.048	3.0	2.39	8.32	1.795	.795	.557
.443	.000	47.5	.564	.436	.000					
	2.50	6.3	52.4	.048	3.0	2.44	8.33	1.829	.829	.547
.453	.000	50.9	.552	.448	.000					
	2.66	6.6	54.7	.048	3.0	2.47	8.25	1.853	.853	.540
.460	.000	53.6	.543	.457	.000					
	2.81	6.9	55.6	.050	3.0	1.90	8.07	1.428	1.126	.366
.437	.197	55.1	.386	.437	.177					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 1 TIMES.

AVERAGE NUMBER ITERATIONS = 1.0471

Equations solved with two passes: first using the Ponce correction to C1,
second using the Fread correction to C1, C2 and C3

PRINT HYD

ID=78 CODE=0

AHYMO-N0V13C-Output
HYDROGRAPH FROM AREA RTE.PONDG

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		6.600	6.9	13.200	6.6
19.800	4.5		26.400	.1			
	.300	.0		6.900	6.9	13.500	6.5
20.100	4.3		26.700	.1			
	.600	.0		7.200	6.9	13.800	6.5
20.400	4.1		27.000	.1			
	.900	.0		7.500	6.9	14.100	6.5
20.700	3.9		27.300	.0			
	1.200	.0		7.800	6.9	14.400	6.4
21.000	3.6		27.600	.0			
	1.500	.2		8.100	6.9	14.700	6.4
21.300	3.4		27.900	.0			
	1.800	4.8		8.400	6.9	15.000	6.3
21.600	3.2		28.200	.0			
	2.100	6.4		8.700	6.9	15.300	6.3
21.900	3.0		28.500	.0			
	2.400	6.8		9.000	6.9	15.600	6.2
22.200	2.8		28.800	.0			
	2.700	6.9		9.300	6.9	15.900	6.1
22.500	2.6		29.100	.0			
	3.000	6.9		9.600	6.9	16.200	6.1
22.800	2.3		29.400	.0			
	3.300	6.9		9.900	6.8	16.500	6.0
23.100	1.7		29.700	.0			
	3.600	6.9		10.200	6.8	16.800	5.9
23.400	1.3		30.000	.0			
	3.900	6.9		10.500	6.8	17.100	5.8
23.700	1.0		30.300	.0			
	4.200	6.9		10.800	6.8	17.400	5.7
24.000	.8		30.600	.0			
	4.500	6.9		11.100	6.8	17.700	5.6
24.300	.6		30.900	.0			
	4.800	6.9		11.400	6.7	18.000	5.5
24.600	.5		31.200	.0			
	5.100	6.9		11.700	6.7	18.300	5.3
24.900	.4		31.500	.0			
	5.400	6.9		12.000	6.7	18.600	5.2
25.200	.3					18.900	5.0
	5.700	6.9		12.300	6.7		
25.500	.2					19.200	4.8
	6.000	6.9		12.600	6.6		
25.800	.2					19.500	4.7
	6.300	6.9		12.900	6.6		
26.100	.1						

RUNOFF VOLUME = 1.31664 INCHES = 10.7365 ACRE-FEET
 PEAK DISCHARGE RATE = 6.94 CFS AT 5.700 HOURS BASIN AREA =
 .1529 SQ. MI.

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ADD HYD

ID=79 HYD=BYPASS.RTE.G ID I=78 II=32

AHYMO-N0V13C-Output

PRINT HYD

ID=79 CODE=10

HYDROGRAPH FROM AREA BYPASS.RTE.G

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
36.000	.000 .0	.0	12.000	24.6	24.000	7.9
37.000	1.000 .0	.0	13.000	24.5	25.000	2.0
38.000	2.000 .0	23.7	14.000	24.3	26.000	.8
39.000	3.000 .0	24.8	15.000	24.2	27.000	.4
40.000	4.000 .0	24.8	16.000	24.0	28.000	.2
41.000	5.000 .0	24.8	17.000	23.7	29.000	.2
42.000	6.000 .0	24.8	18.000	23.3	30.000	.1
43.000	7.000 .0	24.8	19.000	22.8	31.000	.1
44.000	8.000 .0	24.8	20.000	20.8	32.000	.1
45.000	9.000 .0	24.7	21.000	17.7	33.000	.1
46.000	10.000 .0	24.7	22.000	15.1	34.000	.1
47.000	11.000 .0	24.6	23.000	12.4	35.000	.0

RUNOFF VOLUME = 1.31704 INCHES = 43.0048 ACRE- FEET
 PEAK DISCHARGE RATE = 24.80 CFS AT 5.700 HOURS BASIN AREA =
 .6122 SQ. MI.

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*****POND G DISCHARGES INTO POND K*****

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COMPUTE NM HYD ID=55 HYD NO=OFFSITE2 DA=.0805 SQ MI

%A=100 %B=0.0 %C=0.0 %D=0.0

TP=-.66 HR RAIN=-1

K = .803590HR TP = .660000HR K/TP RATIO = 1.217560 SHAPE
 CONSTANT, N = 2.922175

AHYMO-NOV13C-Output

UNIT PEAK = 33.592 CFS UNIT VOLUME = .9995 B = 275.41
P60 = 1.8400
AREA = .080500 SQ MI IA = .65000 INCHES INF = 1.67000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

PRINT HYD ID=55 CODE=10

HYDROGRAPH FROM AREA OFFSITE2

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
	.000	.0	4.000	1.5	8.000	.3
12.000	.1	.0	16.000	.0	9.000	.2
13.000	.0	.0	17.000	.0	10.000	.1
14.000	.0	13.9	18.000	.0	11.000	.1
15.000	.0	5.2	7.000	.4		

RUNOFF VOLUME = .41534 INCHES = 1.7832 ACRE-FEET
PEAK DISCHARGE RATE = 13.87 CFS AT 2.000 HOURS BASIN AREA =
.0805 SQ. MI.

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ROUTE RESERVOIR ID=50 HYD=OFFPOND2 INFLOW ID=55 CODE=5

OUTFLOW	STORAGE	DEPTH
0	0	0
2.16	0.047	1
3.06	0.222	2
3.75	0.466	3
4.33	0.751	4
4.84	1.081	5

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	.00	.000	.00
.50	.00	.00	.000	.00
1.00	.00	.00	.000	.00
1.50	3.77	.41	.019	.88
2.00	13.87	2.49	.342	3.40

AHYMO-NOV13C-Output

2.50	9.71	3.78	.689	4.20
3.00	5.22	4.18	.809	4.42
3.50	2.80	4.11	.787	4.39
4.00	1.50	3.80	.695	4.22
4.50	1.13	3.39	.579	3.98
5.00	.92	2.98	.461	3.74
5.50	.75	2.52	.348	3.42
6.00	.61	2.08	.241	3.11
6.50	.49	1.55	.144	2.66
7.00	.40	1.08	.061	2.23
7.50	.33	.34	.016	.73
8.00	.26	.16	.008	.35
8.50	.22	.12	.005	.25
9.00	.17	.09	.004	.20
9.50	.14	.07	.003	.16
10.00	.12	.06	.003	.13
10.50	.09	.05	.002	.11
11.00	.08	.04	.002	.09
11.50	.06	.03	.002	.07
12.00	.05	.03	.001	.06
12.50	.04	.02	.001	.05
13.00	.03	.02	.001	.04
13.50	.03	.01	.001	.03
14.00	.02	.01	.001	.02
14.50	.02	.01	.000	.02
15.00	.01	.01	.000	.02
15.50	.01	.01	.000	.01
16.00	.01	.00	.000	.01
16.50	.01	.00	.000	.01
17.00	.01	.00	.000	.01
17.50	.01	.00	.000	.01
18.00	.00	.00	.000	.00

PEAK DISCHARGE = 4.426 CFS - PEAK OCCURS AT HOUR 3.10
 MAXIMUM WATER SURFACE ELEVATION = 4.188
 MAXIMUM STORAGE = .8131 AC-FT INCREMENTAL TIME=.100000HRS

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PRINT HYD ID=50 CODE=10

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.011

DIA=2.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION 1.0			MAX FT
	WATER SURFACE ELEV	FLOW AREA SQ FT	FLOW RATE CFS	
	.00	.00	.00	
.89	.10	.06	.12	
1.22	.21	.17	.54	
	.31	.31	1.26	

AHYMO-N0V13C-Output

1.45			
	.42	.47	2.26
1.62			
	.52	.65	3.53
1.76			
	.63	.84	5.03
1.85			
	.73	1.04	6.74
1.93			
	.83	1.24	8.62
1.97			
	.94	1.45	10.63
2.00			
	1.04	1.66	12.72
2.00			
	1.15	1.86	14.85
2.00			
	1.25	2.07	16.96
2.00			
	1.35	2.27	19.01
2.00			
	1.46	2.46	20.93
2.00			
	1.56	2.63	22.65
2.00			
	1.67	2.80	24.08
2.00			
	1.77	2.94	25.10
2.00			
	1.88	3.06	25.52
2.00			
	2.00	3.14	25.52

ROUTE MCUNGE

ID=70 HYD=RTE.OFFPOND2 INFLOW ID=50

DT=0.0 L=900 NS=0 SLOPE=0.011

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 185

DT= .100000

WIDTH MED=

1.62

TABLE PTS= 19

QMED=

2.21

NREACH= 1

CKMED=

6.2379

DX=

900.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.170	.0	2.50	.94	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.10	.1	.1	.125	.9	3.28	1.99	1.312	.004	.996
.136	-.133	.0	.999	.021	-.021					
	.21	.2	.5	.080	1.2	4.53	3.11	1.810	.010	.993
.291	-.284	.3	.994	.203	-.197					
	.31	.3	1.3	.062	1.5	5.73	4.00	2.292	.015	.991
.395	-.386	.9	.992	.347	-.339					
	.42	.5	2.3	.053	1.6	6.75	4.76	2.698	.021	.989
.462	-.451	1.7	.990	.431	-.421					
	.52	.7	3.5	.046	1.8	7.61	5.42	3.044	.027	.987
.509	-.496	2.9	.988	.488	-.475					
	.63	.8	5.0	.042	1.9	8.34	6.00	3.338	.033	.985
.542	-.527	4.3	.986	.527	-.513					
	.73	1.0	6.7	.038	1.9	8.96	6.50	3.585	.039	.983

AHYMO-NOV13C-Output

.567	-.550	5.9	.984	.556	-.540					
	.83	1.2	8.6	.036	2.0	9.47	6.95	3.788	.047	.981
.586	-.567	7.7	.982	.578	-.560					
	.94	1.4	10.6	.034	2.0	9.87	7.34	3.947	.055	.978
.600	-.578	9.6	.980	.594	-.574					
	1.04	1.7	12.7	.033	2.0	10.14	7.68	4.057	.063	.975
.609	-.585	11.7	.977	.606	-.583					
	1.15	1.9	14.8	.031	2.0	10.21	7.97	4.083	.073	.972
.612	-.584	13.8	.974	.612	-.586					
	1.25	2.1	17.0	.030	2.0	10.02	8.21	4.007	.086	.966
.607	-.574	15.9	.969	.611	-.580					
	1.35	2.3	19.0	.030	2.0	9.54	8.39	3.817	.101	.959
.593	-.552	18.0	.963	.602	-.565					
	1.46	2.5	20.9	.029	2.0	8.75	8.52	3.499	.121	.948
.567	-.515	20.0	.954	.583	-.537					
	1.56	2.6	22.7	.029	2.0	7.57	8.60	3.027	.151	.928
.521	-.449	21.8	.940	.549	-.488					
	1.67	2.8	24.1	.029	2.0	5.89	8.60	2.357	.206	.884
.439	-.323	23.4	.912	.489	-.401					
	1.77	2.9	25.1	.029	2.0	3.45	8.53	1.381	.367	.733
.272	-.005	24.6	.842	.378	-.220					
	1.88	3.1	25.5	.030	2.0	1.97	8.34	.787	.655	.463
.181	.356	25.3	.480	.181	.339					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 1 TIMES.

AVERAGE NUMBER ITERATIONS = 1.1024

Equations solved using the Ponce correction to C2

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PRINT HYD

ID=70 CODE=0

HYDROGRAPH FROM AREA RTE.OFFPOND2

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	HRS		HRS	HRS		HRS	
	.000	.0		3.800	4.3	7.600	.7
11.400	.1	.0	15.200	.0	4.3	7.700	.6
	.100	.0		3.900	4.3		
11.500	.1	.0	15.300	.0	4.2	7.800	.5
	.200	.0		4.000	4.2		
11.600	.1	.0	15.400	.0	4.2	7.900	.4
	.300	.0		4.100	4.2		
11.700	.1	.0	15.500	.0	4.1	8.000	.4
	.400	.0		4.200	4.1		
11.800	.1	.0	15.600	.0	4.1	8.100	.3
	.500	.0		4.300	4.1		
11.900	.1	.0	15.700	.0	4.0	8.200	.3
	.600	.0		4.400	4.0		
12.000	.1	.0	15.800	.0	4.0	8.300	.3
	.700	.0		4.500	4.0		
12.100	.1	.0	15.900	.0	3.9	8.400	.3
	.800	.0		4.600	3.9		
12.200	.1	.0	16.000	.0	3.9	8.500	.3
	.900	.0		4.700	3.9		
12.300	.1	.0	16.100	.0	3.9	8.600	.2
	1.000	.0		4.800	3.9		
12.400	.0	.0	16.200	.0	3.8	8.700	.2
	1.100	.0		4.900	3.8		
12.500	.0	.0	16.300	.0	3.8	8.800	.2
	1.200	.0		5.000	3.8		

AHYMO-NOV13C-Output

12.600	.0	16.400	.0			
	1.300	.0	5.100	3.7	8.900	.2
12.700	.0	16.500	.0			
	1.400	.0	5.200	3.6	9.000	.2
12.800	.0	16.600	.0			
	1.500	.4	5.300	3.6	9.100	.2
12.900	.0	16.700	.0			
	1.600	1.6	5.400	3.5	9.200	.2
13.000	.0	16.800	.0			
	1.700	2.6	5.500	3.4	9.300	.2
13.100	.0	16.900	.0			
	1.800	2.6	5.600	3.4	9.400	.2
13.200	.0	17.000	.0			
	1.900	3.1	5.700	3.3	9.500	.2
13.300	.0	17.100	.0			
	2.000	3.3	5.800	3.3	9.600	.2
13.400	.0	17.200	.0			
	2.100	3.6	5.900	3.2	9.700	.2
13.500	.0	17.300	.0			
	2.200	3.8	6.000	3.1	9.800	.1
13.600	.0	17.400	.0			
	2.300	3.9	6.100	3.1	9.900	.1
13.700	.0	17.500	.0			
	2.400	4.1	6.200	3.0	10.000	.1
13.800	.0	17.600	.0			
	2.500	4.2	6.300	2.9	10.100	.1
13.900	.0	17.700	.0			
	2.600	4.3	6.400	2.8	10.200	.1
14.000	.0	17.800	.0			
	2.700	4.3	6.500	2.7	10.300	.1
14.100	.0	17.900	.0			
	2.800	4.4	6.600	2.6	10.400	.1
14.200	.0	18.000	.0			
	2.900	4.4	6.700	2.5	10.500	.1
14.300	.0	18.100	.0			
	3.000	4.4	6.800	2.4	10.600	.1
14.400	.0	18.200	.0			
	3.100	4.4	6.900	2.3	10.700	.1
14.500	.0	18.300	.0			
	3.200	4.4	7.000	2.3	10.800	.1
14.600	.0	18.400	.0			
	3.300	4.4	7.100	2.2	10.900	.1
14.700	.0	18.500	.0			
	3.400	4.4	7.200	1.9	11.000	.1
14.800	.0	18.600	.0			
	3.500	4.4	7.300	1.3	11.100	.1
14.900	.0	18.700	.0			
	3.600	4.4	7.400	1.0	11.200	.1
15.000	.0	18.800	.0			
	3.700	4.3	7.500	.8	11.300	.1
15.100	.0					

RUNOFF VOLUME = .41538 INCHES = 1.7834 ACRE-FEET
 PEAK DISCHARGE RATE = 4.43 CFS AT 3.200 HOURS BASIN AREA =
 .0805 SQ. MI.

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AHYMO-N0V13C-Output

%A=0 %B=34.0 %C=34.0 %D=32.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 25.299 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .006394 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 36.207 CFS UNIT VOLUME = 1.007 B = 354.44
 P60 = 1.8400
 AREA = .013586 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD

ID=30 CODE=10

HYDROGRAPH FROM AREA BASIN.B

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
15.000	.000 .1	.0	20.000	.1	10.000	.1
16.000	1.000 .1	.0	6.000	.1	11.000	.1
17.000	2.000 .1	5.8	7.000	.2	12.000	.1
18.000	3.000 .1	.3	8.000	.1	13.000	.1
19.000	4.000 .1	.1	9.000	.1	14.000	.1
			24.000	.1		

RUNOFF VOLUME = 1.32000 INCHES = 1.4066 ACRE-FEET
 PEAK DISCHARGE RATE = 34.80 CFS AT 1.500 HOURS BASIN AREA =
 .0200 SQ. MI.

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ROUTE RESERVOIR

ID=51 HYD=POND.B INFLOW ID=30 CODE=5

OUTFLOW

STORAGE DEPTH

0

0

5515

1.71

0.06

5516

AHYMO-N0V13C-Output

2.42	0.24	5517
2.96	0.55	5518
3.42	0.99	5519
3.82	1.67	5520

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5515.00	.000	.00
.50	.00	5515.00	.000	.00
1.00	.00	5515.00	.000	.00
1.50	34.80	5517.54	.407	2.71
2.00	5.83	5518.84	.918	3.34
2.50	.93	5518.75	.880	3.31
3.00	.31	5518.50	.769	3.19
3.50	.17	5518.23	.649	3.06
4.00	.13	5517.94	.531	2.93
4.50	.12	5517.58	.419	2.73
5.00	.13	5517.24	.315	2.55
5.50	.14	5516.88	.219	2.34
6.00	.15	5516.42	.136	2.01
6.50	.16	5516.03	.065	1.73
7.00	.15	5515.40	.024	.68
7.50	.15	5515.18	.011	.31
8.00	.14	5515.11	.007	.20
8.50	.14	5515.09	.006	.16
9.00	.14	5515.08	.005	.14
9.50	.13	5515.08	.005	.14
10.00	.13	5515.08	.005	.13
10.50	.12	5515.07	.004	.13
11.00	.12	5515.07	.004	.12
11.50	.12	5515.07	.004	.12
12.00	.12	5515.07	.004	.12
12.50	.11	5515.07	.004	.11
13.00	.11	5515.07	.004	.11
13.50	.11	5515.06	.004	.11
14.00	.10	5515.06	.004	.11
14.50	.10	5515.06	.004	.10
15.00	.10	5515.06	.004	.10
15.50	.10	5515.06	.004	.10
16.00	.10	5515.06	.003	.10
16.50	.09	5515.06	.003	.10
17.00	.09	5515.06	.003	.09
17.50	.09	5515.05	.003	.09
18.00	.09	5515.05	.003	.09
18.50	.09	5515.05	.003	.09
19.00	.09	5515.05	.003	.09
19.50	.08	5515.05	.003	.09
20.00	.08	5515.05	.003	.08
20.50	.08	5515.05	.003	.08
21.00	.08	5515.05	.003	.08
21.50	.08	5515.05	.003	.08
22.00	.08	5515.05	.003	.08
22.50	.08	5515.05	.003	.08
23.00	.07	5515.04	.003	.08
23.50	.07	5515.04	.003	.08

AHYMO-N0V13C-Output

24.00	.07	5515.04	.003	.07
24.50	.00	5515.02	.001	.03
25.00	.00	5515.01	.000	.01
25.50	.00	5515.00	.000	.00

PEAK DISCHARGE = 3.357 CFS - PEAK OCCURS AT HOUR 2.10
 MAXIMUM WATER SURFACE ELEVATION = 5518.863
 MAXIMUM STORAGE = .9296 AC-FT INCREMENTAL TIME= .100000HRS

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PRINT HYD

ID=51 CODE=10

HYDROGRAPH FROM AREA POND.B

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0		6.000	2.0	12.000	.1
18.000	.1		24.000	.1			
	1.000	.0		7.000	.7	13.000	.1
19.000	.1		25.000	.0			
	2.000	3.3		8.000	.2	14.000	.1
20.000	.1		26.000	.0			
	3.000	3.2		9.000	.1	15.000	.1
21.000	.1						
	4.000	2.9	10.000	.1		16.000	.1
22.000	.1						
	5.000	2.6	11.000	.1		17.000	.1
23.000	.1						

RUNOFF VOLUME = 1.31999 INCHES = 1.4066 ACRE-FEET
 PEAK DISCHARGE RATE = 3.36 CFS AT 2.100 HOURS BASIN AREA =
 .0200 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.03

DIA=2.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE	FLOW AREA	1.0 FLOW RATE	
	ELEV	SQ FT	CFS	
.00	.00	.00	.00	FT
.89	.10	.06	.21	
1.22	.21	.17	.89	
1.45	.31	.31	2.07	

AHYMO-N0V13C-Output

1.62	.42	.47	3.73
1.76	.52	.65	5.82
1.85	.63	.84	8.31
1.93	.73	1.04	11.13
1.97	.83	1.24	14.24
2.00	.94	1.45	17.55
2.00	1.04	1.66	21.00
2.00	1.15	1.86	24.52
2.00	1.25	2.07	28.02
2.00	1.35	2.27	31.40
2.00	1.46	2.46	34.57
2.00	1.56	2.63	37.41
2.00	1.67	2.80	39.77
2.00	1.77	2.94	41.46
2.00	1.88	3.06	42.15
2.00	2.00	3.14	42.15

ROUTE MCUNGE

ID=71 HYD=RTE.PONDB INFLOW ID=51

DT=0.0 L=1180 NS=0 SLOPE=0.03

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 261

DT= .100000

WIDTH MED=

1.38

TABLE PTS= 19

QMED=

1.68

NREACH= 1

CKMED=

8.4416

DX=

1180.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.135	.0	3.28	1.55	1.000	.000	1.000
.246	.10	.1	.2	.100	.9	5.42	3.29	1.652	.001	.999
.391	.21	.2	.9	.064	1.2	7.47	5.14	2.280	.003	.998
.486	.31	.3	2.1	.050	1.5	9.46	6.61	2.887	.004	.998
.546	.42	.5	3.7	.042	1.6	11.14	7.86	3.398	.006	.997
.587	.52	.7	5.8	.037	1.8	12.57	8.95	3.834	.007	.997
.616	.63	.8	8.3	.033	1.9	13.78	9.90	4.204	.009	.996
.638	.73	1.0	11.1	.031	1.9	14.80	10.74	4.515	.011	.996
	.634	9.7	.996	.629	-.625					

AHYMO-NOV13C-Output

.83	1.2	14.2	.029	2.0	15.64	11.48	4.771	.013	.995
.654	-.650	12.7	.996	.647	-.643				
.94	1.4	17.5	.027	2.0	16.29	12.13	4.971	.015	.995
.666	-.661	15.9	.995	.661	-.656				
1.04	1.7	21.0	.026	2.0	16.75	12.69	5.110	.018	.994
.674	-.668	19.3	.995	.671	-.665				
1.15	1.9	24.5	.025	2.0	16.86	13.16	5.143	.021	.993
.676	-.669	22.7	.994	.676	-.670				
1.25	2.1	28.0	.024	2.0	16.54	13.56	5.047	.024	.992
.671	-.663	26.3	.993	.674	-.667				
1.35	2.3	31.4	.024	2.0	15.76	13.86	4.808	.028	.990
.657	-.648	29.7	.991	.666	-.657				
1.46	2.5	34.6	.023	2.0	14.44	14.08	4.407	.034	.988
.632	-.620	33.0	.989	.647	-.636				
1.56	2.6	37.4	.023	2.0	12.50	14.20	3.813	.042	.983
.588	-.571	36.0	.986	.615	-.600				
1.67	2.8	39.8	.023	2.0	9.73	14.21	2.969	.058	.971
.503	-.475	38.6	.979	.556	-.534				
1.77	2.9	41.5	.023	2.0	5.70	14.09	1.739	.103	.928
.296	-.224	40.6	.960	.435	-.395				
1.88	3.1	42.1	.024	2.0	3.25	13.77	.991	.183	.831
.080	.088	41.8	.838	.088	.074				

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 1 TIMES.

AVERAGE NUMBER ITERATIONS = 1.1036

Equations solved using the Ponce correction to C2

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PRINT HYD

ID=71 CODE=0

HYDROGRAPH FROM AREA RTE.PONDB

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		5.300	2.5	10.600	.1
15.900	.1		21.200	.1		10.700	.1
	.100	.0		5.400	2.4		
16.000	.1		21.300	.1		10.800	.1
	.200	.0		5.500	2.4		
16.100	.1		21.400	.1		10.900	.1
	.300	.0		5.600	2.3		
16.200	.1		21.500	.1		11.000	.1
	.400	.0		5.700	2.2		
16.300	.1		21.600	.1		11.100	.1
	.500	.0		5.800	2.2		
16.400	.1		21.700	.1		11.200	.1
	.600	.0		5.900	2.1		
16.500	.1		21.800	.1		11.300	.1
	.700	.0		6.000	2.0		
16.600	.1		21.900	.1		11.400	.1
	.800	.0		6.100	2.0		
16.700	.1		22.000	.1		11.500	.1
	.900	.0		6.200	1.9		
16.800	.1		22.100	.1		11.600	.1
	1.000	.0		6.300	1.9		
16.900	.1		22.200	.1		11.700	.1
	1.100	.0		6.400	1.8		
17.000	.1		22.300	.1		11.800	.1
	1.200	.0		6.500	1.7		
17.100	.1		22.400	.1			

AHYMO-NOV13C-Output						
	1.300	.5	6.600	1.6	11.900	.1
17.200	.1	22.500	.1			
	1.400	1.7	6.700	1.3	12.000	.1
17.300	.1	22.600	.1			
	1.500	2.6	6.800	1.1	12.100	.1
17.400	.1	22.700	.1			
	1.600	2.9	6.900	.9	12.200	.1
17.500	.1	22.800	.1			
	1.700	3.2	7.000	.7	12.300	.1
17.600	.1	22.900	.1			
	1.800	3.2	7.100	.6	12.400	.1
17.700	.1	23.000	.1			
	1.900	3.3	7.200	.5	12.500	.1
17.800	.1	23.100	.1			
	2.000	3.3	7.300	.4	12.600	.1
17.900	.1	23.200	.1			
	2.100	3.4	7.400	.4	12.700	.1
18.000	.1	23.300	.1			
	2.200	3.4	7.500	.3	12.800	.1
18.100	.1	23.400	.1			
	2.300	3.3	7.600	.3	12.900	.1
18.200	.1	23.500	.1			
	2.400	3.3	7.700	.3	13.000	.1
18.300	.1	23.600	.1			
	2.500	3.3	7.800	.2	13.100	.1
18.400	.1	23.700	.1			
	2.600	3.3	7.900	.2	13.200	.1
18.500	.1	23.800	.1			
	2.700	3.3	8.000	.2	13.300	.1
18.600	.1	23.900	.1			
	2.800	3.2	8.100	.2	13.400	.1
18.700	.1	24.000	.1			
	2.900	3.2	8.200	.2	13.500	.1
18.800	.1	24.100	.1			
	3.000	3.2	8.300	.2	13.600	.1
18.900	.1	24.200	.1			
	3.100	3.2	8.400	.2	13.700	.1
19.000	.1	24.300	.1			
	3.200	3.1	8.500	.2	13.800	.1
19.100	.1	24.400	.0			
	3.300	3.1	8.600	.2	13.900	.1
19.200	.1	24.500	.0			
	3.400	3.1	8.700	.2	14.000	.1
19.300	.1	24.600	.0			
	3.500	3.1	8.800	.1	14.100	.1
19.400	.1	24.700	.0			
	3.600	3.0	8.900	.1	14.200	.1
19.500	.1	24.800	.0			
	3.700	3.0	9.000	.1	14.300	.1
19.600	.1	24.900	.0			
	3.800	3.0	9.100	.1	14.400	.1
19.700	.1	25.000	.0			
	3.900	3.0	9.200	.1	14.500	.1
19.800	.1	25.100	.0			
	4.000	2.9	9.300	.1	14.600	.1
19.900	.1	25.200	.0			
	4.100	2.9	9.400	.1	14.700	.1
20.000	.1	25.300	.0			
	4.200	2.9	9.500	.1	14.800	.1
20.100	.1	25.400	.0			
	4.300	2.8	9.600	.1	14.900	.1
20.200	.1	25.500	.0			
	4.400	2.8	9.700	.1	15.000	.1

AHYMO-NOV13C-Output

20.300	.1	25.600	.0			
	4.500	2.7	9.800	.1	15.100	.1
20.400	.1	25.700	.0			
	4.600	2.7	9.900	.1	15.200	.1
20.500	.1	25.800	.0			
	4.700	2.7	10.000	.1	15.300	.1
20.600	.1	25.900	.0			
	4.800	2.6	10.100	.1	15.400	.1
20.700	.1	26.000	.0			
	4.900	2.6	10.200	.1	15.500	.1
20.800	.1	26.100	.0			
	5.000	2.6	10.300	.1	15.600	.1
20.900	.1					
	5.100	2.5	10.400	.1	15.700	.1
21.000	.1					
	5.200	2.5	10.500	.1	15.800	.1
21.100	.1					

RUNOFF VOLUME = 1.32010 INCHES = 1.4067 ACRE-FEET
 PEAK DISCHARGE RATE = 3.36 CFS AT 2.100 HOURS BASIN AREA =
 .0200 SQ. MI.

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ADD HYD

ID=72 HYD=OFF.B ID I=71 II=70

PRINT HYD

ID=72 CODE=10

HYDROGRAPH FROM AREA OFF.B

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		6.000	5.2	12.000	.2
18.000	.1		24.000	.1			
	1.000	.0		7.000	3.0	13.000	.2
19.000	.1		25.000	.0			
	2.000	6.6		8.000	.6	14.000	.1
20.000	.1		26.000	.0			
	3.000	7.6		9.000	.3	15.000	.1
21.000	.1						
	4.000	7.2	10.000	.3		16.000	.1
22.000	.1						
	5.000	6.3	11.000	.2		17.000	.1
23.000	.1						

RUNOFF VOLUME = .59525 INCHES = 3.1899 ACRE-FEET
 PEAK DISCHARGE RATE = 7.62 CFS AT 2.900 HOURS BASIN AREA =
 .1005 SQ. MI.

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COMPUTE NM HYD ID=30 AHYMO-N0V13C-Output
HYD N0=BASIN.E1 DA=.03341 SQ MI

%A=0.0 %B=33.0 %C=33.0 %D=34.0

TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 44.949 CFS UNIT VOLUME = 1.030 B = 526.28
P60 = 1.8400
AREA = .011359 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
CONSTANT, N = 3.989065
UNIT PEAK = 58.764 CFS UNIT VOLUME = 1.007 B = 354.44
P60 = 1.8400
AREA = .022051 SQ MI IA = .42500 INCHES INF = 1.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

PRINT HYD ID=30 CODE=10

HYDROGRAPH FROM AREA BASIN.E1

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS		HRS	CFS
15.000	.000	.0	20.000	5.000	.2	10.000	.2
16.000	1.000	.0	21.000	6.000	.3	11.000	.2
17.000	2.000	10.1	22.000	7.000	.3	12.000	.2
18.000	3.000	.5	23.000	8.000	.3	13.000	.2
19.000	4.000	.2	24.000	9.000	.2	14.000	.2

RUNOFF VOLUME = 1.35259 INCHES = 2.4101 ACRE-FEET
PEAK DISCHARGE RATE = 58.79 CFS AT 1.500 HOURS BASIN AREA =
.0334 SQ. MI.

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ADD HYD ID=73 HYD=OFFB.E1 ID I=72 II=30

PRINT HYD ID=73 CODE=10

HYDROGRAPH FROM AREA OFFB.E1

AHYMO-N0V13C-Output

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
18.000	.000	.0	24.000	6.000	5.4	12.000	.4
19.000	.3	.0	25.000	.2	3.3	13.000	.3
20.000	1.000	16.7	26.000	.0	.8	14.000	.3
21.000	.2	8.2		.0	.6	15.000	.3
22.000	2.000	7.4			.5	16.000	.3
23.000	.2	6.5			.4	17.000	.3

RUNOFF VOLUME = .78423 INCHES = 5.6000 ACRE-FEET
 PEAK DISCHARGE RATE = 61.76 CFS AT 1.500 HOURS BASIN AREA =
 .1339 SQ. MI.

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COMPUTE NM HYD ID=32 HYD NO=BASIN.E2 DA=.01348 SQ MI

%A=0.0 %B=18.0 %C=18.0 %D=64.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 34.137 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .008627 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 12.933 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .004853 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=32 CODE=10

HYDROGRAPH FROM AREA BASIN.E2

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
------	--------------	------	------	--------------	------	------	------

AHYMO-N0V13C-Output

HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
15.000	.000	.0	20.000	5.000	.2	10.000	.2
16.000	.1	.0	21.000	6.000	.2	11.000	.2
17.000	1.000	.0	22.000	7.000	.2	12.000	.2
18.000	.1	6.1	23.000	8.000	.2	13.000	.1
19.000	2.000	.3	24.000	9.000	.2	14.000	.1
	3.000	.2					
	4.000	.1					
	.1						

RUNOFF VOLUME = 1.84145 INCHES = 1.3239 ACRE-Feet
 PEAK DISCHARGE RATE = 27.42 CFS AT 1.500 HOURS BASIN AREA =
 .0135 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.002

DIA=3.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION 1.0			MAX
	WATER SURFACE	FLOW AREA	FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
1.33	.16	.14	.16	
1.83	.31	.39	.68	
2.18	.47	.71	1.58	
2.44	.63	1.07	2.84	
2.63	.78	1.46	4.43	
2.78	.94	1.89	6.33	
2.89	1.09	2.33	8.48	
2.96	1.25	2.79	10.84	
2.99	1.41	3.26	13.36	
3.00	1.56	3.72	15.99	
3.00	1.72	4.19	18.67	
3.00	1.88	4.65	21.33	
3.00	2.03	5.10	23.90	
3.00	2.19	5.53	26.32	

AHYMO-NOV13C-Output

3.00	2.35	5.93	28.48
3.00	2.50	6.30	30.27
3.00	2.66	6.62	31.56
3.00	2.81	6.89	32.09
3.00	3.00	7.07	32.09

ROUTE MCUNGE

ID=76 HYD=RTE.E2 INFLOW ID=32

DT=0.0 L=800 NS=0 SLOPE=0.01

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 249

TABLE PTS= 19

DT= .100000

QMED= 13.71

CKMED=

5.6088

WIDTH MED= 2.99

NREACH= 1

DX=

800.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.271	.0	2.22	.53	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.16	.1	.2	.200	1.3	2.21	1.11	.993	.007	.993
.000	.007	.0	.999	.000	.001					
	.31	.4	.7	.128	1.8	2.53	1.74	1.138	.018	.983
.072	-.055	.4	.989	.030	-.019					
	.47	.7	1.6	.099	2.2	3.20	2.24	1.441	.028	.977
.190	-.167	1.1	.979	.135	-.115					
	.63	1.1	2.8	.084	2.4	3.77	2.66	1.696	.039	.972
.269	-.240	2.2	.974	.232	-.206					
	.78	1.5	4.4	.073	2.6	4.25	3.03	1.913	.049	.967
.325	-.292	3.6	.969	.299	-.268					
	.94	1.9	6.3	.066	2.8	4.66	3.35	2.098	.061	.961
.367	-.328	5.4	.964	.348	-.312					
	1.09	2.3	8.5	.061	2.9	5.01	3.63	2.253	.073	.956
.399	-.355	7.4	.959	.385	-.343					
	1.25	2.8	10.8	.057	3.0	5.29	3.88	2.381	.087	.950
.423	-.373	9.6	.953	.413	-.366					
	1.41	3.3	13.4	.054	3.0	5.51	4.10	2.481	.101	.944
.442	-.385	12.1	.947	.434	-.381					
	1.56	3.7	16.0	.052	3.0	5.67	4.29	2.550	.118	.936
.455	-.391	14.7	.940	.450	-.390					
	1.72	4.2	18.7	.050	3.0	5.70	4.45	2.567	.136	.926
.460	-.386	17.3	.932	.459	-.390					
	1.88	4.7	21.3	.048	3.0	5.60	4.59	2.519	.159	.914
.456	-.370	20.0	.921	.460	-.380					
	2.03	5.1	23.9	.047	3.0	5.33	4.69	2.399	.187	.896
.442	-.338	22.6	.906	.451	-.357					
	2.19	5.5	26.3	.047	3.0	4.89	4.76	2.199	.224	.869
.416	-.285	25.1	.884	.432	-.316					
	2.35	5.9	28.5	.046	3.0	4.23	4.80	1.903	.281	.824
.372	-.195	27.4	.851	.398	-.248					
	2.50	6.3	30.3	.046	3.0	3.29	4.81	1.482	.383	.733
.302	-.034	29.4	.790	.343	-.133					
	2.66	6.6	31.6	.047	3.0	1.93	4.77	.868	.682	.465
.216	.319	30.9	.652	.260	.088					
	2.81	6.9	32.1	.048	3.0	1.10	4.66	.495	1.216	.103
.262	.635	31.8	.123	.255	.623					

AHYMO-NOV13C-Output

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 7 TIMES.
AVERAGE NUMBER ITERATIONS = 1.0458

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.271	.0	2.22	.53	1.000	.000	1.000
.000	.16	.1	.2	.200	1.3	2.21	1.11	.993	.007	.993
.000	.31	.4	.7	.128	1.8	2.27	1.74	1.020	.020	.980
.020	.47	.7	1.6	.099	2.2	2.31	2.24	1.039	.039	.962
.038	.63	1.1	2.8	.084	2.4	2.36	2.66	1.062	.062	.942
.058	.78	1.5	4.4	.073	2.6	2.42	3.03	1.087	.087	.920
.080	.94	1.9	6.3	.066	2.8	2.48	3.35	1.115	.115	.897
.103	1.09	2.3	8.5	.061	2.9	2.54	3.63	1.144	.144	.874
.126	1.25	2.8	10.8	.057	3.0	2.61	3.88	1.175	.175	.851
.149	1.41	3.3	13.4	.054	3.0	2.68	4.10	1.208	.208	.828
.172	1.56	3.7	16.0	.052	3.0	2.76	4.29	1.241	.241	.805
.195	1.72	4.2	18.7	.050	3.0	2.83	4.45	1.275	.275	.785
.215	1.88	4.7	21.3	.048	3.0	2.90	4.59	1.306	.306	.766
.234	2.03	5.1	23.9	.047	3.0	2.97	4.69	1.336	.336	.749
.251	2.19	5.5	26.3	.047	3.0	3.03	4.76	1.362	.362	.734
.266	2.35	5.9	28.5	.046	3.0	3.08	4.80	1.385	.385	.722
.278	2.50	6.3	30.3	.046	3.0	3.12	4.81	1.404	.404	.712
.288	2.66	6.6	31.6	.047	3.0	1.93	4.77	.868	.682	.465
.216	.319	30.9	.652	.260	.088					
.262	2.81	6.9	32.1	.048	3.0	1.10	4.66	.495	1.216	.103
	.635	31.8	.123	.255	.623					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 5 TIMES.
AVERAGE NUMBER ITERATIONS = 1.0407
Equations solved with two passes: first using the Ponce correction to C1,
second using the Fread correction to C1, C2 and C3
*

PRINT HYD

ID=76 CODE=0

HYDROGRAPH FROM AREA RTE.E2

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
15.000	.000	.0	20.000	5.000	.2	10.000	.2
	.1			.1			
	.100	.0	5.100	.2		10.100	.2

AHYMO-NOV13C-Output

15.100	.1	20.100	.1		
	.200	.0	5.200	.2	10.200 .2
15.200	.1	20.200	.1		
	.300	.0	5.300	.2	10.300 .2
15.300	.1	20.300	.1		
	.400	.0	5.400	.2	10.400 .2
15.400	.1	20.400	.1		
	.500	.0	5.500	.2	10.500 .2
15.500	.1	20.500	.1		
	.600	.0	5.600	.2	10.600 .2
15.600	.1	20.600	.1		
	.700	.0	5.700	.2	10.700 .2
15.700	.1	20.700	.1		
	.800	.0	5.800	.2	10.800 .2
15.800	.1	20.800	.1		
	.900	.0	5.900	.2	10.900 .2
15.900	.1	20.900	.1		
	1.000	.0	6.000	.2	11.000 .2
16.000	.1	21.000	.1		
	1.100	.0	6.100	.2	11.100 .2
16.100	.1	21.100	.1		
	1.200	.2	6.200	.2	11.200 .2
16.200	.1	21.200	.1		
	1.300	2.6	6.300	.2	11.300 .2
16.300	.1	21.300	.1		
	1.400	10.8	6.400	.2	11.400 .2
16.400	.1	21.400	.1		
	1.500	24.9	6.500	.2	11.500 .2
16.500	.1	21.500	.1		
	1.600	25.3	6.600	.2	11.600 .2
16.600	.1	21.600	.1		
	1.700	17.6	6.700	.2	11.700 .2
16.700	.1	21.700	.1		
	1.800	12.1	6.800	.2	11.800 .2
16.800	.1	21.800	.1		
	1.900	9.2	6.900	.2	11.900 .2
16.900	.1	21.900	.1		
	2.000	7.4	7.000	.2	12.000 .2
17.000	.1	22.000	.1		
	2.100	5.9	7.100	.2	12.100 .2
17.100	.1	22.100	.1		
	2.200	3.6	7.200	.2	12.200 .2
17.200	.1	22.200	.1		
	2.300	2.1	7.300	.2	12.300 .2
17.300	.1	22.300	.1		
	2.400	1.5	7.400	.2	12.400 .2
17.400	.1	22.400	.1		
	2.500	1.1	7.500	.2	12.500 .2
17.500	.1	22.500	.1		
	2.600	.9	7.600	.2	12.600 .2
17.600	.1	22.600	.1		
	2.700	.7	7.700	.2	12.700 .2
17.700	.1	22.700	.1		
	2.800	.5	7.800	.2	12.800 .2
17.800	.1	22.800	.1		
	2.900	.5	7.900	.2	12.900 .2
17.900	.1	22.900	.1		
	3.000	.4	8.000	.2	13.000 .1
18.000	.1	23.000	.1		
	3.100	.3	8.100	.2	13.100 .1
18.100	.1	23.100	.1		
	3.200	.3	8.200	.2	13.200 .1
18.200	.1	23.200	.1		

AHYMO-NOV13C-Output

18.300	3.300	.3	8.300	.2	13.300	.1
18.400	3.400	.2	8.400	.2	13.400	.1
18.500	3.500	.2	8.500	.2	13.500	.1
18.600	3.600	.2	8.600	.2	13.600	.1
18.700	3.700	.2	8.700	.2	13.700	.1
18.800	3.800	.2	8.800	.2	13.800	.1
18.900	3.900	.2	8.900	.2	13.900	.1
19.000	4.000	.2	9.000	.2	14.000	.1
19.100	4.100	.2	9.100	.2	14.100	.1
19.200	4.200	.2	9.200	.2	14.200	.1
19.300	4.300	.2	9.300	.2	14.300	.1
19.400	4.400	.2	9.400	.2	14.400	.1
19.500	4.500	.2	9.500	.2	14.500	.1
19.600	4.600	.2	9.600	.2	14.600	.1
19.700	4.700	.2	9.700	.2	14.700	.1
19.800	4.800	.2	9.800	.2	14.800	.1
19.900	4.900	.2	9.900	.2	14.900	.1

RUNOFF VOLUME = 1.82775 INCHES = 1.3140 ACRE-FEET
 PEAK DISCHARGE RATE = 25.29 CFS AT 1.600 HOURS BASIN AREA =
 .0135 SQ. MI.

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COMPUTE NM HYD ID=33 HYD NO=BASIN.E3 DA=.01197 SQ MI

%A=0.0 %B=25.0 %C=25.0 %D=50.0

TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 23.682 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .005985 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE

AHYMO-N0V13C-Output

CONSTANT, N = 3.989065
UNIT PEAK = 15.950 CFS UNIT VOLUME = 1.006 B = 354.44
P60 = 1.8400
AREA = .005985 SQ MI IA = .42500 INCHES INF = 1.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

PRINT HYD ID=33 CODE=10

HYDROGRAPH FROM AREA BASIN.E3

TIME	TIME FLOW	FLOW	TIME FLOW	FLOW	TIME FLOW	FLOW
HRS	HRS CFS	CFS	HRS CFS	CFS	HRS CFS	CFS
15.000	.000 .1	.0	5.000 .1	.1	10.000 .1	.1
16.000	1.000 .1	.0	6.000 .1	.1	11.000 .1	.1
17.000	2.000 .1	4.6	7.000 .1	.1	12.000 .1	.1
18.000	3.000 .1	.2	8.000 .1	.1	13.000 .1	.1
19.000	4.000 .1	.1	9.000 .1	.1	14.000 .1	.1
			24.000 .1			

RUNOFF VOLUME = 1.61331 INCHES = 1.0299 ACRE-FEET
PEAK DISCHARGE RATE = 22.82 CFS AT 1.500 HOURS BASIN AREA =
.0120 SQ. MI.

*
*

COMPUTE NM HYD ID=34 HYD NO=BASIN.E4 DA=.00577 SQ MI

%A=0.0 %B=5.0 %C=5.0 %D=90.0
TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 20.548 CFS UNIT VOLUME = 1.030 B = 526.28
P60 = 1.8400
AREA = .005193 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
CONSTANT, N = 3.989065
UNIT PEAK = 1.5377 CFS UNIT VOLUME = .9989 B = 354.44
P60 = 1.8400
AREA = .000577 SQ MI IA = .42500 INCHES INF = 1.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =

AHYMO-N0V13C-Output

.100000

PRINT HYD

ID=34 CODE=10

HYDROGRAPH FROM AREA BASIN.E4

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
FLOW	FLOW		FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	CFS
CFS	CFS		CFS			
	.000	.0	5.000	.1	10.000	.1
15.000	.1	.0	20.000	.1	11.000	.1
	1.000	.0	6.000	.1	12.000	.1
16.000	.1	3.4	7.000	.1	13.000	.1
	2.000	.2	8.000	.1	14.000	.1
17.000	.1	.1	9.000	.1		
	3.000	.1				
18.000	.1	.1				
	4.000	.1				
19.000	.1	.1				

RUNOFF VOLUME = 2.26513 INCHES = .6971 ACRE-FEET
 PEAK DISCHARGE RATE = 13.11 CFS AT 1.500 HOURS BASIN AREA =
 .0058 SQ. MI.

*

*

ADD HYD

ID=74 HYD=E3.E4 ID I=33 II=34

PRINT HYD

ID=74 CODE=10

HYDROGRAPH FROM AREA E3.E4

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
FLOW	FLOW		FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	CFS
CFS	CFS		CFS			
	.000	.0	5.000	.2	10.000	.2
15.000	.2	.0	20.000	.1	11.000	.2
	1.000	.0	6.000	.1	12.000	.2
16.000	.2	8.0	7.000	.1	13.000	.2
	2.000	.4	8.000	.1	14.000	.2
17.000	.2	.2	9.000	.1		
	3.000	.2				
18.000	.2	.2				
	4.000	.2				
19.000	.2	.1				

RUNOFF VOLUME = 1.82529 INCHES = 1.7270 ACRE-FEET
 PEAK DISCHARGE RATE = 35.93 CFS AT 1.500 HOURS BASIN AREA =
 .0177 SQ. MI.

*

AHYMO-N0V13C-Output

*

ADD HYD

ID=75 HYD=E3E4.E1B0FF ID I=74 II=73

PRINT HYD

ID=75 CODE=10

HYDROGRAPH FROM AREA E3E4.E1B0FF

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0		6.000	5.7	12.000	.6
18.000	.4		24.000	.3		13.000	.5
	1.000	.0		7.000	3.5		
19.000	.4		25.000	.0		14.000	.5
	2.000	24.7		8.000	1.1		
20.000	.4		26.000	.0		15.000	.5
	3.000	8.6		9.000	.8		
21.000	.4			10.000	.7	16.000	.5
	4.000	7.6					
22.000	.4			11.000	.6	17.000	.4
	5.000	6.8					
23.000	.3						

RUNOFF VOLUME = .90603 INCHES = 7.3270 ACRE-FEET
 PEAK DISCHARGE RATE = 97.69 CFS AT 1.500 HOURS BASIN AREA =
 .1516 SQ. MI.

*

*

COMPUTE RATING CURVE CID=1 VS N0=1 CODE=-1 SLP=0.026

DIA=4.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE ELEV	FLOW AREA SQ FT	1.0 FLOW RATE CFS	
.00	.00	.00	.00	FT
1.78	.21	.25	1.21	
2.44	.42	.69	5.27	
2.91	.63	1.25	12.26	
3.25	.83	1.90	22.05	
3.51	1.04	2.60	34.43	
3.71	1.25	3.36	49.13	
	1.46	4.15	65.82	

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3.85			
	1.67	4.96	84.15
3.94			
	1.88	5.79	103.74
3.99			
	2.08	6.62	124.15
4.00			
	2.29	7.45	144.94
4.00			
	2.50	8.27	165.61
4.00			
	2.71	9.06	185.62
4.00			
	2.92	9.82	204.35
4.00			
	3.13	10.54	221.12
4.00			
	3.34	11.20	235.07
4.00			
	3.54	11.77	245.05
4.00			
	3.75	12.24	249.15
4.00			
	4.00	12.57	249.15

ROUTE MCUNGE

ID=77 HYD=RTE.E1E4 INFLOW ID=75

DT=0.0 L=1210 NS=0 SLOPE=0.026

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

*

PRINT HYD

ID=77 CODE=0

HYDROGRAPH FROM AREA RTE.E1E4

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		5.300	6.5	10.600 .7
15.900	.5	.0	21.200	.4		
	.100	.0		5.400	6.4	10.700 .7
16.000	.5	.0	21.300	.4		
	.200	.0		5.500	6.3	10.800 .6
16.100	.4	.0	21.400	.4		
	.300	.0		5.600	6.2	10.900 .6
16.200	.4	.0	21.500	.4		
	.400	.0		5.700	6.0	11.000 .6
16.300	.4	.0	21.600	.4		
	.500	.0		5.800	5.9	11.100 .6
16.400	.4	.0	21.700	.4		
	.600	.0		5.900	5.8	11.200 .6
16.500	.4	.0	21.800	.4		
	.700	.0		6.000	5.7	11.300 .6
16.600	.4	.0	21.900	.4		
	.800	.0		6.100	5.6	11.400 .6
16.700	.4	.0	22.000	.4		
	.900	.0		6.200	5.5	11.500 .6

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16.800	.4	22.100	.4			
	1.000	.0	6.300	5.3	11.600	.6
16.900	.4	22.200	.4			
	1.100	.4	6.400	5.1	11.700	.6
17.000	.4	22.300	.4			
	1.200	5.8	6.500	5.0	11.800	.6
17.100	.4	22.400	.3			
	1.300	22.8	6.600	4.8	11.900	.6
17.200	.4	22.500	.3			
	1.400	81.3	6.700	4.4	12.000	.6
17.300	.4	22.600	.4			
	1.500	97.7	6.800	4.0	12.100	.6
17.400	.4	22.700	.3			
	1.600	70.5	6.900	3.8	12.200	.6
17.500	.4	22.800	.3			
	1.700	48.2	7.000	3.5	12.300	.6
17.600	.4	22.900	.3			
	1.800	35.9	7.100	3.3	12.400	.6
17.700	.4	23.000	.3			
	1.900	29.2	7.200	2.9	12.500	.6
17.800	.4	23.100	.3			
	2.000	24.7	7.300	2.3	12.600	.6
17.900	.4	23.200	.3			
	2.100	18.1	7.400	2.0	12.700	.6
18.000	.4	23.300	.3			
	2.200	13.7	7.500	1.7	12.800	.5
18.100	.4	23.400	.3			
	2.300	12.0	7.600	1.5	12.900	.5
18.200	.4	23.500	.3			
	2.400	10.9	7.700	1.3	13.000	.5
18.300	.4	23.600	.3			
	2.500	10.2	7.800	1.2	13.100	.5
18.400	.4	23.700	.3			
	2.600	9.7	7.900	1.1	13.200	.5
18.500	.4	23.800	.3			
	2.700	9.3	8.000	1.1	13.300	.5
18.600	.4	23.900	.3			
	2.800	9.0	8.100	1.0	13.400	.5
18.700	.4	24.000	.3			
	2.900	8.8	8.200	1.0	13.500	.5
18.800	.4	24.100	.2			
	3.000	8.6	8.300	1.0	13.600	.5
18.900	.4	24.200	.1			
	3.100	8.4	8.400	.9	13.700	.5
19.000	.4	24.300	.1			
	3.200	8.3	8.500	.9	13.800	.5
19.100	.4	24.400	.1			
	3.300	8.2	8.600	.9	13.900	.5
19.200	.4	24.500	.1			
	3.400	8.1	8.700	.9	14.000	.5
19.300	.4	24.600	.0			
	3.500	8.0	8.800	.8	14.100	.5
19.400	.4	24.700	.0			
	3.600	8.0	8.900	.8	14.200	.5
19.500	.4	24.800	.0			
	3.700	7.9	9.000	.8	14.300	.5
19.600	.4	24.900	.0			
	3.800	7.8	9.100	.8	14.400	.5
19.700	.4	25.000	.0			
	3.900	7.7	9.200	.8	14.500	.5
19.800	.4	25.100	.0			
	4.000	7.6	9.300	.8	14.600	.5
19.900	.4	25.200	.0			

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	4.100	7.5	9.400	.8	14.700	.5
20.000	.4	25.300	.0			
	4.200	7.4	9.500	.8	14.800	.5
20.100	.4	25.400	.0			
	4.300	7.3	9.600	.8	14.900	.5
20.200	.4	25.500	.0			
	4.400	7.3	9.700	.7	15.000	.5
20.300	.4	25.600	.0			
	4.500	7.2	9.800	.7	15.100	.5
20.400	.4	25.700	.0			
	4.600	7.1	9.900	.7	15.200	.5
20.500	.4	25.800	.0			
	4.700	7.0	10.000	.7	15.300	.5
20.600	.4	25.900	.0			
	4.800	6.9	10.100	.7	15.400	.5
20.700	.4	26.000	.0			
	4.900	6.8	10.200	.7	15.500	.5
20.800	.4	26.100	.0			
	5.000	6.8	10.300	.7	15.600	.5
20.900	.4					
	5.100	6.7	10.400	.7	15.700	.5
21.000	.4					
	5.200	6.6	10.500	.7	15.800	.5
21.100	.4					

RUNOFF VOLUME = .90603 INCHES = 7.3270 ACRE-FEET
 PEAK DISCHARGE RATE = 97.69 CFS AT 1.500 HOURS BASIN AREA =
 .1516 SQ. MI.

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ADD HYD

ID=78 HYD=E1E4.E2 ID I=77 II=76

PRINT HYD

ID=78 CODE=10

HYDROGRAPH FROM AREA E1E4.E2

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	CFS
	HRS			HRS		
	CFS			CFS		
	.000	.0	6.000	5.9	12.000	.7
18.000	.5	24.000	.4			
	1.000	.0	7.000	3.7	13.000	.7
19.000	.5	25.000	.0			
	2.000	32.1	8.000	1.3	14.000	.6
20.000	.5	26.000	.0			
	3.000	9.0	9.000	1.0	15.000	.6
21.000	.5					
	4.000	7.8	10.000	.9	16.000	.6
22.000	.5					
	5.000	6.9	11.000	.8	17.000	.6
23.000	.4					

RUNOFF VOLUME = .98127 INCHES = 8.6409 ACRE-FEET
 PEAK DISCHARGE RATE = 122.58 CFS AT 1.500 HOURS BASIN AREA =
 .1651 SQ. MI.

AHYMO-N0V13C-Output

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COMPUTE NM HYD ID=35 HYD NO=BASIN.E5 DA=.04402 SQ MI

%A=0.0 %B=29.0 %C=29.0 %D=42.0

TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 73.158 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .018488 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 68.041 CFS UNIT VOLUME = 1.007 B = 354.44
 P60 = 1.8400
 AREA = .025532 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=35 CODE=10

HYDROGRAPH FROM AREA BASIN.E5

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS		HRS	CFS
15.000	.000	.0	20.000	5.000	.4	10.000	.4
16.000	.3	.0	21.000	6.000	.4	11.000	.4
17.000	.3	15.1	22.000	7.000	.4	12.000	.3
18.000	.3	.8	23.000	8.000	.4	13.000	.3
19.000	.3	.4	24.000	9.000	.4	14.000	.3

RUNOFF VOLUME = 1.48295 INCHES = 3.4816 ACRE-FEET
 PEAK DISCHARGE RATE = 80.67 CFS AT 1.500 HOURS BASIN AREA =
 .0440 SQ. MI.

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AHYMO-N0V13C-Output

ADD HYD

ID=80 HYD=E1E4.E5 ID I=78 II=35

PRINT HYD

ID=80 CODE=10

HYDROGRAPH FROM AREA E1E4.E5

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
18.000	.000	.0	24.000	6.000	6.3	12.000	1.1
19.000	.8	.0	25.000	7.000	4.2	13.000	1.0
20.000	1.000	47.2	26.000	8.000	1.7	14.000	.9
21.000	.8	9.8		9.000	1.4	15.000	.9
22.000	2.000	8.2		10.000	1.3	16.000	.9
23.000	.7	7.3		11.000	1.2	17.000	.8

RUNOFF VOLUME = 1.08687 INCHES = 12.1224 ACRE-FEET
 PEAK DISCHARGE RATE = 203.25 CFS AT 1.500 HOURS BASIN AREA =
 .2091 SQ. MI.

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COMPUTE NM HYD

ID=36 HYD NO=BASIN.E6 DA=.00488 SQ MI

%A=0.0 %B=5.0 %C=5.0 %D=90.0

TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 17.379 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .004392 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.3005 CFS UNIT VOLUME = .9989 B = 354.44
 P60 = 1.8400
 AREA = .000488 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD

ID=36 CODE=10

AHYMO-N0V13C-Output

HYDROGRAPH FROM AREA BASIN.E6

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		5.000	.1	10.000	.1
15.000	.1	.0	20.000	.1	.1	11.000	.1
16.000	.1	.0	21.000	.1	.1	12.000	.1
17.000	.1	2.9	22.000	.1	.1	13.000	.1
18.000	.1	.1	23.000	.1	.1	14.000	.1
19.000	.1	.1	24.000	.1	.1		

RUNOFF VOLUME = 2.26512 INCHES = .5895 ACRE-FEET
 PEAK DISCHARGE RATE = 11.09 CFS AT 1.500 HOURS BASIN AREA =
 .0049 SQ. MI.

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ADD HYD

ID=40 HYD=E1E6 ID I=80 II=36

PRINT HYD

ID=40 CODE=10

HYDROGRAPH FROM AREA E1E6

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		6.000	6.4	12.000	1.2
18.000	.9	.0	24.000	.7	4.3	13.000	1.1
19.000	.8	.0	25.000	.0	1.8	14.000	1.0
20.000	.8	50.0	26.000	.0	1.5	15.000	1.0
21.000	.8	9.9		9.000	1.3	16.000	.9
22.000	.7	8.3		10.000	1.2	17.000	.9
23.000	.7	7.4		11.000			

RUNOFF VOLUME = 1.11374 INCHES = 12.7119 ACRE-FEET
 PEAK DISCHARGE RATE = 214.33 CFS AT 1.500 HOURS BASIN AREA =
 .2140 SQ. MI.

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AHYMO-N0V13C-Output

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DIVIDE HYD

ID=40 Q=15.5 ID I=61 HYD NO=BYPASS.E

ID II=62 HYD NO=SURGE.E

PRINT HYD

ID=61 CODE=10

HYDROGRAPH FROM AREA BYPASS.E

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
18.000	.000	.0	24.000	6.000	6.4	12.000	1.2
19.000	1.000	.0	25.000	7.000	4.3	13.000	1.1
20.000	.8	15.5	26.000	8.000	1.8	14.000	1.0
21.000	2.000	9.9		9.000	1.5	15.000	1.0
22.000	.8	8.3		10.000	1.3	16.000	.9
23.000	4.000	7.4		11.000	1.2	17.000	.9
	.7						

RUNOFF VOLUME = 1.11374 INCHES = 6.1450 ACRE-Feet
 PEAK DISCHARGE RATE = 15.50 CFS AT 1.300 HOURS BASIN AREA =
 .1035 SQ. MI.

PRINT HYD

ID=62 CODE=10

HYDROGRAPH FROM AREA SURGE.E

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0	1.000		.0	2.000	34.5

RUNOFF VOLUME = 1.11374 INCHES = 6.5669 ACRE-Feet
 PEAK DISCHARGE RATE = 198.83 CFS AT 1.500 HOURS BASIN AREA =
 .1106 SQ. MI.

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ROUTE RESERVOIR

ID=37 HYD=POND.E INFLOW ID=62 CODE=6.3

AHYMO-NOV13C-Output

OUTFLOW

STORAGE DEPTH

0.0		0.00	5441.6
3.31	1.37		5444
4.53	2.73		5445
5.68	4.25		5446
6.77	5.97		5447
7.81	7.52		5448
50.0	9.07		5449

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5441.60	.000	.00
.60	.00	5441.60	.000	.00
1.20	.00	5441.60	.000	.00
1.80	62.10	5446.56	5.217	6.29
2.40	.39	5447.06	6.058	6.83
3.00	.00	5446.86	5.727	6.62
3.60	.00	5446.67	5.404	6.41
4.20	.00	5446.49	5.091	6.21
4.80	.00	5446.31	4.788	6.02
5.40	.00	5446.14	4.494	5.83
6.00	.00	5445.97	4.209	5.65
6.60	.00	5445.79	3.934	5.44
7.20	.00	5445.62	3.669	5.24
7.80	.00	5445.45	3.414	5.05
8.40	.00	5445.29	3.168	4.86
9.00	.00	5445.13	2.932	4.68
9.60	.00	5444.98	2.704	4.51
10.20	.00	5444.82	2.485	4.31
10.80	.00	5444.67	2.276	4.12
11.40	.00	5444.52	2.076	3.94
12.00	.00	5444.38	1.885	3.77
12.60	.00	5444.24	1.702	3.61
13.20	.00	5444.12	1.527	3.45
13.80	.00	5443.98	1.360	3.29
14.40	.00	5443.71	1.206	2.91
15.00	.00	5443.47	1.070	2.59
15.60	.00	5443.26	.949	2.29
16.20	.00	5443.08	.842	2.03
16.80	.00	5442.91	.747	1.80
17.40	.00	5442.76	.663	1.60
18.00	.00	5442.63	.588	1.42
18.60	.00	5442.51	.521	1.26
19.20	.00	5442.41	.463	1.12
19.80	.00	5442.32	.410	.99
20.40	.00	5442.24	.364	.88
21.00	.00	5442.17	.323	.78
21.60	.00	5442.10	.286	.69
22.20	.00	5442.05	.254	.61
22.80	.00	5442.00	.225	.54
23.40	.00	5441.95	.200	.48
24.00	.00	5441.91	.177	.43

AHYMO-N0V13C-Output

24.60	.00	5441.88	.157	.38
25.20	.00	5441.84	.140	.34
25.80	.00	5441.82	.124	.30
26.40	.00	5441.79	.110	.27
27.00	.00	5441.77	.097	.24
27.60	.00	5441.75	.086	.21
28.20	.00	5441.73	.077	.19
28.80	.00	5441.72	.068	.16
29.40	.00	5441.71	.060	.15
30.00	.00	5441.69	.054	.13
30.60	.00	5441.68	.047	.11
31.20	.00	5441.67	.042	.10
31.80	.00	5441.67	.037	.09
32.40	.00	5441.66	.033	.08
33.00	.00	5441.65	.029	.07

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
33.60	.00	5441.65	.026	.06
34.20	.00	5441.64	.023	.06
34.80	.00	5441.64	.021	.05
35.40	.00	5441.63	.018	.04
36.00	.00	5441.63	.016	.04
36.60	.00	5441.63	.014	.03
37.20	.00	5441.62	.013	.03
37.80	.00	5441.62	.011	.03
38.40	.00	5441.62	.010	.02
39.00	.00	5441.62	.009	.02
39.60	.00	5441.61	.008	.02
40.20	.00	5441.61	.007	.02
40.80	.00	5441.61	.006	.01
41.40	.00	5441.61	.005	.01
42.00	.00	5441.61	.005	.01
42.60	.00	5441.61	.004	.01
43.20	.00	5441.61	.004	.01
43.80	.00	5441.61	.003	.01
44.40	.00	5441.61	.003	.01
45.00	.00	5441.60	.003	.01
45.60	.00	5441.60	.002	.01
46.20	.00	5441.60	.002	.01
46.80	.00	5441.60	.002	.00

PEAK DISCHARGE = 6.829 CFS - PEAK OCCURS AT HOUR 2.40

MAXIMUM WATER SURFACE ELEVATION = 5447.057

MAXIMUM STORAGE = 6.0584 AC-FT INCREMENTAL TIME= .300000HRS

*

PRINT HYD

ID=37 CODE=10

HYDROGRAPH FROM AREA POND.E

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW HRS	CFS	HRS	FLOW HRS	HRS	CFS
	.000	.0	12.000	3.8	24.000	.4
36.000	.0	48.000	15.000	2.6	27.000	.2
39.000	.0	51.000	18.000	1.4	30.000	.1

AHYMO-NOV13C-Output

42.000 .0 54.000 .0
 9.000 4.7 21.000 .8 33.000 .1
 45.000 .0

RUNOFF VOLUME = 1.11484 INCHES = 6.5735 ACRE-FEET
 PEAK DISCHARGE RATE = 6.83 CFS AT 2.400 HOURS BASIN AREA =
 .1106 SQ. MI.

*

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ADD HYD ID=40 HYD=TOTALE ID I=61 II=37

PRINT HYD ID=40 CODE=10

HYDROGRAPH FROM AREA TOTALE

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	FLOW HRS CFS
	.000	.0		11.000	5.3	22.000	1.4
33.000	.1	.0	44.000	.0		23.000	1.2
	1.000	.0	12.000	.0	4.9		
34.000	.1	.0	45.000	.0		24.000	1.1
	2.000	22.1	13.000	.0	4.6		
35.000	.0	.0	46.000	.0		25.000	.4
	3.000	16.5	14.000	.0	4.2		
36.000	.0	.0	47.000	.0		26.000	.3
	4.000	14.6	15.000	.0	3.5		
37.000	.0	.0	48.000	.0		27.000	.2
	5.000	13.4	16.000	.0	3.0		
38.000	.0	.0	49.000	.0		28.000	.2
	6.000	12.1	17.000	.0	2.6		
39.000	.0	.0	50.000	.0		29.000	.2
	7.000	9.6	18.000	.0	2.3		
40.000	.0	.0	51.000	.0		30.000	.1
	8.000	6.8	19.000	.0	2.0		
41.000	.0	.0	52.000	.0		31.000	.1
	9.000	6.2	20.000	.0	1.7		
42.000	.0	.0	53.000	.0		32.000	.1
	10.000	5.7	21.000	.0	1.5		
43.000	.0	.0	54.000	.0			

RUNOFF VOLUME = 1.11427 INCHES = 12.7180 ACRE-FEET
 PEAK DISCHARGE RATE = 22.33 CFS AT 2.400 HOURS BASIN AREA =
 .2140 SQ. MI.

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*

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.022

DIA=2.5 N=0.013

AHYMO-N0V13C-Output

WIDTH	RATING CURVE	PIPE SECTION	1.0	MAX
	WATER SURFACE	FLOW AREA	FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
1.11	.13	.10	.32	
1.53	.26	.27	1.39	
1.82	.39	.49	3.22	
2.03	.52	.74	5.79	
2.19	.65	1.02	9.04	
2.32	.78	1.31	12.90	
2.41	.91	1.62	17.29	
2.47	1.04	1.94	22.10	
2.50	1.17	2.26	27.25	
2.50	1.30	2.59	32.61	
2.50	1.43	2.91	38.07	
2.50	1.56	3.23	43.50	
2.50	1.69	3.54	48.75	
2.50	1.82	3.84	53.68	
2.50	1.95	4.12	58.08	
2.50	2.08	4.37	61.74	
2.50	2.21	4.60	64.37	
2.50	2.35	4.78	65.44	
2.50	2.50	4.91	65.44	

ROUTE MCUNGE

ID=38 HYD=RTE.PONDE INFLOW ID=40

DT=0.0 L=1200 NS=0 SLOPE=0.022

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 544					TABLE PTS= 19					
DT= .100000					QMED= 11.16					
WIDTH MED= 2.26					CKMED= 13.1133					
					DX= 1200.00					
C2	DEPTH	AREA	Q	TRAVEL	WIDTH	ck	VEL	C	D	C1
	C3	Q-M	C1-M	C2-M	C3-M					
	(FT)	(SQ FT)	(CFS)	TIME(HR)	(FT)	(FPS)	(FPS)			
		(CFS)								
	.00	.0	.0	.139	.0	3.33	1.54	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					

AHYMO-NOV13C-Output

	.13	.1	.3	.102	1.1	5.38	3.27	1.614	.002	.998
.236	-.234	.1	.999	.054	-.053					
	.26	.3	1.4	.065	1.5	7.43	5.10	2.228	.005	.997
.381	-.378	.8	.998	.299	-.296					
	.39	.5	3.2	.051	1.8	9.40	6.57	2.821	.007	.996
.478	-.474	2.2	.997	.433	-.430					
	.52	.7	5.8	.043	2.0	11.07	7.81	3.321	.010	.995
.538	-.534	4.4	.996	.510	-.506					
	.65	1.0	9.0	.037	2.2	12.49	8.89	3.746	.012	.995
.580	-.574	7.4	.995	.561	-.556					
	.78	1.3	12.9	.034	2.3	13.69	9.84	4.108	.015	.994
.610	-.604	10.9	.994	.596	-.591					
	.91	1.6	17.3	.031	2.4	14.71	10.67	4.412	.019	.993
.632	-.625	15.0	.994	.622	-.616					
	1.04	1.9	22.1	.029	2.5	15.54	11.41	4.662	.022	.992
.648	-.640	19.7	.993	.641	-.634					
	1.17	2.3	27.2	.028	2.5	16.19	12.05	4.857	.026	.991
.660	-.651	24.6	.992	.655	-.647					
	1.30	2.6	32.6	.026	2.5	16.64	12.61	4.993	.030	.990
.668	-.658	29.9	.991	.665	-.656					
	1.43	2.9	38.1	.025	2.5	16.75	13.08	5.025	.034	.989
.670	-.659	35.3	.989	.670	-.660					
	1.56	3.2	43.5	.025	2.5	16.44	13.47	4.932	.040	.987
.665	-.652	40.8	.988	.669	-.657					
	1.69	3.5	48.8	.024	2.5	15.66	13.77	4.698	.047	.984
.652	-.635	46.1	.985	.660	-.645					
	1.82	3.8	53.7	.024	2.5	14.35	13.99	4.306	.057	.979
.627	-.606	51.2	.982	.642	-.623					
	1.95	4.1	58.1	.024	2.5	12.42	14.11	3.726	.071	.970
.583	-.553	55.9	.976	.609	-.585					
	2.08	4.4	61.7	.024	2.5	9.67	14.12	2.901	.097	.952
.500	-.451	59.9	.964	.551	-.515					
	2.21	4.6	64.4	.024	2.5	5.66	14.00	1.699	.172	.880
.303	-.184	63.1	.933	.434	-.367					
	2.35	4.8	65.4	.024	2.5	3.23	13.68	.968	.307	.730
.121	.149	64.9	.740	.126	.133					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 4 OCCURRED 1 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.3243
 Equations solved using the Ponce correction to C2
 *

PRINT HYD

ID=38 CODE=0

HYDROGRAPH FROM AREA RTE.PONDE

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0	10.900	5.3	21.800	1.4
32.700	.1	43.600	.0	5.3	21.900	1.4
	.100	.0	11.000	5.3		
32.800	.1	43.700	.0	5.3	22.000	1.4
	.200	.0	11.100	5.3		
32.900	.1	43.800	.0	5.2	22.100	1.4
	.300	.0	11.200	5.2		
33.000	.1	43.900	.0	5.2	22.200	1.4
	.400	.0	11.300	5.1		
33.100	.1	44.000	.0		22.300	1.3
	.500	.0	11.400			
33.200	.1	44.100	.0			

			AHYMO-NOV13C-Output			
	.600	.0	11.500	5.1	22.400	1.3
33.300	.1	44.200	.0			
	.700	.0	11.600	5.1	22.500	1.3
33.400	.1	44.300	.0			
	.800	.0	11.700	5.0	22.600	1.3
33.500	.1	44.400	.0			
	.900	.0	11.800	5.0	22.700	1.3
33.600	.1	44.500	.0			
	1.000	.0	11.900	5.0	22.800	1.3
33.700	.1	44.600	.0			
	1.100	.1	12.000	4.9	22.900	1.3
33.800	.1	44.700	.0			
	1.200	6.8	12.100	4.9	23.000	1.2
33.900	.1	44.800	.0			
	1.300	17.9	12.200	4.9	23.100	1.2
34.000	.1	44.900	.0			
	1.400	17.1	12.300	4.8	23.200	1.2
34.100	.1	45.000	.0			
	1.500	19.9	12.400	4.8	23.300	1.2
34.200	.1	45.100	.0			
	1.600	20.0	12.500	4.8	23.400	1.2
34.300	.1	45.200	.0			
	1.700	21.1	12.600	4.7	23.500	1.2
34.400	.1	45.300	.0			
	1.800	21.5	12.700	4.7	23.600	1.2
34.500	.1	45.400	.0			
	1.900	22.1	12.800	4.7	23.700	1.2
34.600	.1	45.500	.0			
	2.000	22.0	12.900	4.6	23.800	1.2
34.700	.1	45.600	.0			
	2.100	22.3	13.000	4.6	23.900	1.1
34.800	.1	45.700	.0			
	2.200	22.3	13.100	4.6	24.000	1.1
34.900	.0	45.800	.0			
	2.300	22.3	13.200	4.5	24.100	1.0
35.000	.0	45.900	.0			
	2.400	22.3	13.300	4.5	24.200	.7
35.100	.0	46.000	.0			
	2.500	21.3	13.400	4.5	24.300	.6
35.200	.0	46.100	.0			
	2.600	19.6	13.500	4.4	24.400	.5
35.300	.0	46.200	.0			
	2.700	18.7	13.600	4.4	24.500	.5
35.400	.0	46.300	.0			
	2.800	17.7	13.700	4.4	24.600	.4
35.500	.0	46.400	.0			
	2.900	17.1	13.800	4.3	24.700	.4
35.600	.0	46.500	.0			
	3.000	16.6	13.900	4.3	24.800	.4
35.700	.0	46.600	.0			
	3.100	16.3	14.000	4.2	24.900	.4
35.800	.0	46.700	.0			
	3.200	15.9	14.100	4.1	25.000	.4
35.900	.0	46.800	.0			
	3.300	15.7	14.200	4.1	25.100	.4
36.000	.0	46.900	.0			
	3.400	15.5	14.300	4.0	25.200	.4
36.100	.0	47.000	.0			
	3.500	15.3	14.400	3.9	25.300	.3
36.200	.0	47.100	.0			
	3.600	15.1	14.500	3.9	25.400	.3
36.300	.0	47.200	.0			
	3.700	15.0	14.600	3.8	25.500	.3

AHYMO-NOV13C-Output

36.400	.0	47.300	.0			
	3.800	14.8	14.700	3.8	25.600	.3
36.500	.0	47.400	.0			
	3.900	14.7	14.800	3.7	25.700	.3
36.600	.0	47.500	.0			
	4.000	14.6	14.900	3.6	25.800	.3
36.700	.0	47.600	.0			
	4.100	14.4	15.000	3.6	25.900	.3
36.800	.0	47.700	.0			
	4.200	14.3	15.100	3.5	26.000	.3
36.900	.0	47.800	.0			
	4.300	14.2	15.200	3.5	26.100	.3
37.000	.0	47.900	.0			
	4.400	14.0	15.300	3.4	26.200	.3
37.100	.0	48.000	.0			
	4.500	13.9	15.400	3.4	26.300	.3
37.200	.0	48.100	.0			
	4.600	13.8	15.500	3.3	26.400	.3
37.300	.0	48.200	.0			
	4.700	13.7	15.600	3.2	26.500	.3
37.400	.0	48.300	.0			
	4.800	13.6	15.700	3.2	26.600	.3
37.500	.0	48.400	.0			
	4.900	13.5	15.800	3.2	26.700	.3
37.600	.0	48.500	.0			
	5.000	13.4	15.900	3.1	26.800	.2
37.700	.0	48.600	.0			
	5.100	13.3	16.000	3.1	26.900	.2
37.800	.0	48.700	.0			
	5.200	13.2	16.100	3.0	27.000	.2
37.900	.0	48.800	.0			
	5.300	13.0	16.200	3.0	27.100	.2
38.000	.0	48.900	.0			
	5.400	12.9	16.300	2.9	27.200	.2
38.100	.0	49.000	.0			
	5.500	12.8	16.400	2.9	27.300	.2
38.200	.0	49.100	.0			
	5.600	12.7	16.500	2.8	27.400	.2
38.300	.0	49.200	.0			
	5.700	12.5	16.600	2.8	27.500	.2
38.400	.0	49.300	.0			
	5.800	12.4	16.700	2.8	27.600	.2
38.500	.0	49.400	.0			
	5.900	12.2	16.800	2.7	27.700	.2
38.600	.0	49.500	.0			
	6.000	12.1	16.900	2.7	27.800	.2
38.700	.0	49.600	.0			
	6.100	12.0	17.000	2.6	27.900	.2
38.800	.0	49.700	.0			
	6.200	11.9	17.100	2.6	28.000	.2
38.900	.0	49.800	.0			
	6.300	11.7	17.200	2.6	28.100	.2
39.000	.0	49.900	.0			
	6.400	11.5	17.300	2.5	28.200	.2
39.100	.0	50.000	.0			
	6.500	11.3	17.400	2.5	28.300	.2
39.200	.0	50.100	.0			
	6.600	11.1	17.500	2.4	28.400	.2
39.300	.0	50.200	.0			
	6.700	10.7	17.600	2.4	28.500	.2
39.400	.0	50.300	.0			
	6.800	10.3	17.700	2.4	28.600	.2
39.500	.0	50.400	.0			

			AHYMO-NOV13C-Output			
	6.900	10.0	17.800	2.4	28.700	.2
39.600	.0	50.500	.0			
	7.000	9.7	17.900	2.3	28.800	.2
39.700	.0	50.600	.0			
	7.100	9.4	18.000	2.3	28.900	.2
39.800	.0	50.700	.0			
	7.200	9.1	18.100	2.3	29.000	.2
39.900	.0	50.800	.0			
	7.300	8.4	18.200	2.2	29.100	.2
40.000	.0	50.900	.0			
	7.400	7.9	18.300	2.2	29.200	.2
40.100	.0	51.000	.0			
	7.500	7.7	18.400	2.2	29.300	.2
40.200	.0	51.100	.0			
	7.600	7.3	18.500	2.1	29.400	.1
40.300	.0	51.200	.0			
	7.700	7.2	18.600	2.1	29.500	.1
40.400	.0	51.300	.0			
	7.800	7.0	18.700	2.1	29.600	.1
40.500	.0	51.400	.0			
	7.900	6.9	18.800	2.0	29.700	.1
40.600	.0	51.500	.0			
	8.000	6.8	18.900	2.0	29.800	.1
40.700	.0	51.600	.0			
	8.100	6.7	19.000	2.0	29.900	.1
40.800	.0	51.700	.0			
	8.200	6.6	19.100	2.0	30.000	.1
40.900	.0	51.800	.0			
	8.300	6.6	19.200	1.9	30.100	.1
41.000	.0	51.900	.0			
	8.400	6.5	19.300	1.9	30.200	.1
41.100	.0	52.000	.0			
	8.500	6.4	19.400	1.9	30.300	.1
41.200	.0	52.100	.0			
	8.600	6.4	19.500	1.9	30.400	.1
41.300	.0	52.200	.0			
	8.700	6.3	19.600	1.8	30.500	.1
41.400	.0	52.300	.0			
	8.800	6.3	19.700	1.8	30.600	.1
41.500	.0	52.400	.0			
	8.900	6.2	19.800	1.8	30.700	.1
41.600	.0	52.500	.0			
	9.000	6.2	19.900	1.8	30.800	.1
41.700	.0	52.600	.0			
	9.100	6.1	20.000	1.8	30.900	.1
41.800	.0	52.700	.0			
	9.200	6.1	20.100	1.7	31.000	.1
41.900	.0	52.800	.0			
	9.300	6.0	20.200	1.7	31.100	.1
42.000	.0	52.900	.0			
	9.400	6.0	20.300	1.7	31.200	.1
42.100	.0	53.000	.0			
	9.500	6.0	20.400	1.7	31.300	.1
42.200	.0	53.100	.0			
	9.600	5.9	20.500	1.7	31.400	.1
42.300	.0	53.200	.0			
	9.700	5.9	20.600	1.6	31.500	.1
42.400	.0	53.300	.0			
	9.800	5.8	20.700	1.6	31.600	.1
42.500	.0	53.400	.0			
	9.900	5.8	20.800	1.6	31.700	.1
42.600	.0	53.500	.0			
	10.000	5.7	20.900	1.6	31.800	.1

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42.700	.0	53.600	.0			
10.100	5.7	21.000	1.6	31.900	.1	
42.800	.0	53.700	.0			
10.200	5.6	21.100	1.5	32.000	.1	
42.900	.0	53.800	.0			
10.300	5.6	21.200	1.5	32.100	.1	
43.000	.0	53.900	.0			
10.400	5.6	21.300	1.5	32.200	.1	
43.100	.0	54.000	.0			
10.500	5.5	21.400	1.5	32.300	.1	
43.200	.0	54.100	.0			
10.600	5.5	21.500	1.5	32.400	.1	
43.300	.0	54.200	.0			
10.700	5.4	21.600	1.5	32.500	.1	
43.400	.0	54.300	.0			
10.800	5.4	21.700	1.4	32.600	.1	
43.500	.0	54.400	.0			

RUNOFF VOLUME = 1.11446 INCHES = 12.7203 ACRE-FEET
 PEAK DISCHARGE RATE = 22.34 CFS AT 2.100 HOURS BASIN AREA =
 .2140 SQ. MI.

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PARK

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COMPUTE NM HYD ID=32 HYD NO=BASIN.P DA=.00845 SQ MI

%A=43 %B=25 %C=25 %D=7

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 2.3405 CFS UNIT VOLUME = 1.026 B = 526.28
 P60 = 1.8400
 AREA = .000592 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .139440HR TP = .133000HR K/TP RATIO = 1.048418 SHAPE
 CONSTANT, N = 3.367471
 UNIT PEAK = 18.348 CFS UNIT VOLUME = .9925 B = 310.53
 P60 = 1.8400
 AREA = .007859 SQ MI IA = .52903 INCHES INF = 1.33129
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=32 CODE=10

AHYMO-NOV13C-Output
HYDROGRAPH FROM AREA BASIN.P

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
15.000	.000	.0	20.000	5.000	.0	10.000	.0
16.000	1.000	.0	21.000	6.000	.0	11.000	.0
17.000	.0	1.1	22.000	7.000	.0	12.000	.0
18.000	2.000	.0	23.000	8.000	.0	13.000	.0
19.000	3.000	.0	24.000	9.000	.0	14.000	.0
	4.000	.0					
	.0						

RUNOFF VOLUME = .72623 INCHES = .3273 ACRE-FEET
PEAK DISCHARGE RATE = 10.08 CFS AT 1.500 HOURS BASIN AREA =
.0085 SQ. MI.

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VALLE VISTA

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COMPUTE NM HYD ID=33 HYD NO=BASIN.H1 DA=.01825 SQ MI

%A=0.0 %B=16 %C=16 %D=68

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 49.106 CFS UNIT VOLUME = 1.030 B = 526.28
P60 = 1.8400
AREA = .012410 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
CONSTANT, N = 3.989065
UNIT PEAK = 15.563 CFS UNIT VOLUME = 1.006 B = 354.44
P60 = 1.8400
AREA = .005840 SQ MI IA = .42500 INCHES INF = 1.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

PRINT HYD ID=33 CODE=10

HYDROGRAPH FROM AREA BASIN.H1

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TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
	FLOW			FLOW		
HRS	HRS	CFS	HRS	HRS	CFS	CFS
	CFS			CFS		
	.000	.0	5.000	.2	10.000	.2
15.000	.2	20.000	.2			
	1.000	.0	6.000	.3	11.000	.2
16.000	.2	21.000	.2			
	2.000	8.7	7.000	.3	12.000	.2
17.000	.2	22.000	.2			
	3.000	.5	8.000	.3	13.000	.2
18.000	.2	23.000	.1			
	4.000	.2	9.000	.3	14.000	.2
19.000	.2	24.000	.1			

RUNOFF VOLUME = 1.90663 INCHES = 1.8558 ACRE-FEET
 PEAK DISCHARGE RATE = 37.78 CFS AT 1.500 HOURS BASIN AREA =
 .0183 SQ. MI.

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ADD HYD

ID=43 HYD=PONDE.H1 ID I=38 II=33

PRINT HYD

ID=43 CODE=10

HYDROGRAPH FROM AREA PONDE.H1

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
	FLOW			FLOW		
HRS	HRS	CFS	HRS	HRS	CFS	CFS
	CFS			CFS		
	.000	.0	11.000	5.6	22.000	1.5
33.000	.1	44.000	.0			
	1.000	.0	12.000	5.2	23.000	1.4
34.000	.1	45.000	.0			
	2.000	30.7	13.000	4.8	24.000	1.3
35.000	.0	46.000	.0			
	3.000	17.1	14.000	4.4	25.000	.4
36.000	.0	47.000	.0			
	4.000	14.8	15.000	3.8	26.000	.3
37.000	.0	48.000	.0			
	5.000	13.6	16.000	3.3	27.000	.2
38.000	.0	49.000	.0			
	6.000	12.4	17.000	2.8	28.000	.2
39.000	.0	50.000	.0			
	7.000	10.0	18.000	2.5	29.000	.2
40.000	.0	51.000	.0			
	8.000	7.1	19.000	2.2	30.000	.1
41.000	.0	52.000	.0			
	9.000	6.5	20.000	1.9	31.000	.1
42.000	.0	53.000	.0			
	10.000	6.0	21.000	1.7	32.000	.1
43.000	.0	54.000	.0			

RUNOFF VOLUME = 1.17670 INCHES = 14.5760 ACRE-FEET
 PEAK DISCHARGE RATE = 57.68 CFS AT 1.500 HOURS BASIN AREA =

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.2323 SQ. MI.

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RAINBOW BLVD PORTION

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COMPUTE NM HYD ID=34 HYD NO=BASIN.H2 DA=.00836 SQ MI

%A=0.0 %B=0.0 %C=10.0 %D=90.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 29.772 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .007524 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .105291HR TP = .133000HR K/TP RATIO = .791661 SHAPE
 CONSTANT, N = 4.531123
 UNIT PEAK = 2.4461 CFS UNIT VOLUME = 1.010 B = 389.14
 P60 = 1.8400
 AREA = .000836 SQ MI IA = .35000 INCHES INF = .83000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=34 CODE=10

HYDROGRAPH FROM AREA BASIN.H2

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		5.000	.2	10.000	.2
15.000	.1		20.000	.1		11.000	.1
	1.000	.0		6.000	.2		
16.000	.1		21.000	.1		12.000	.1
	2.000	5.0		7.000	.2		
17.000	.1		22.000	.1		13.000	.1
	3.000	.3		8.000	.2		
18.000	.1		23.000	.1		14.000	.1
	4.000	.2		9.000	.2		
19.000	.1		24.000	.1			

RUNOFF VOLUME = 2.28220 INCHES = 1.0175 ACRE-FEET
 PEAK DISCHARGE RATE = 19.16 CFS AT 1.500 HOURS BASIN AREA =
 .0084 SQ. MI.

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ADD HYD

ID=44 HYD=P.H2 ID I=32 II=34

PRINT HYD

ID=44 CODE=10

HYDROGRAPH FROM AREA P.H2

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		5.000	.2	10.000	.2
15.000	.1		20.000	.1		11.000	.2
	1.000	.0		6.000	.2		
16.000	.1		21.000	.1		12.000	.1
	2.000	6.1		7.000	.2		
17.000	.1		22.000	.1		13.000	.1
	3.000	.3		8.000	.2		
18.000	.1		23.000	.1		14.000	.1
	4.000	.2		9.000	.2		
19.000	.1		24.000	.1			

RUNOFF VOLUME = 1.50001 INCHES = 1.3448 ACRE-FEET
 PEAK DISCHARGE RATE = 29.25 CFS AT 1.500 HOURS BASIN AREA =
 .0168 SQ. MI.

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ADD HYD

ID=45 HYD=PH2.H1 ID I=44 II=43

PRINT HYD

ID=45 CODE=10

HYDROGRAPH FROM AREA PH2.H1

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		11.000	5.7	22.000	1.6
33.000	.1		44.000	.0		23.000	1.5
	1.000	.0		12.000	5.3		
34.000	.1		45.000	.0		24.000	1.4
	2.000	36.8		13.000	4.9		
35.000	.0		46.000	.0		25.000	.4
	3.000	17.4		14.000	4.5		
36.000	.0		47.000	.0		26.000	.3
	4.000	15.0		15.000	3.9		
37.000	.0		48.000	.0		27.000	.2
	5.000	13.8		16.000	3.4		
38.000	.0		49.000	.0			

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	6.000	12.6	17.000	2.9	28.000	.2
39.000	.0	50.000	.0			
	7.000	10.2	18.000	2.6	29.000	.2
40.000	.0	51.000	.0			
	8.000	7.3	19.000	2.3	30.000	.1
41.000	.0	52.000	.0			
	9.000	6.6	20.000	2.0	31.000	.1
42.000	.0	53.000	.0			
	10.000	6.1	21.000	1.8	32.000	.1
43.000	.0	54.000	.0			

RUNOFF VOLUME = 1.19852 INCHES = 15.9208 ACRE-FEET
 PEAK DISCHARGE RATE = 86.93 CFS AT 1.500 HOURS BASIN AREA =
 .2491 SQ. MI.

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COMPUTE NM HYD ID=35 HYD NO=BASIN.H3 DA=.01191 SQ MI

%A=0.0 %B=20.0 %C=20.0 %D=60.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 28.276 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .007146 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 12.696 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .004764 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=35 CODE=10

HYDROGRAPH FROM AREA BASIN.H3

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
	.000	.0	5.000	.1	10.000	.1
15.000	.1	.0	20.000	.1	11.000	.1
16.000	.1	.0	21.000	.1		

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17.000	2.000	5.2	7.000	.2	12.000	.1
	.1	22.000	.1			
18.000	3.000	.3	8.000	.2	13.000	.1
	.1	23.000	.1			
19.000	4.000	.1	9.000	.2	14.000	.1
	.1	24.000	.1			

RUNOFF VOLUME = 1.77627 INCHES = 1.1283 ACRE-FeET
 PEAK DISCHARGE RATE = 23.79 CFS AT 1.500 HOURS BASIN AREA =
 .0119 SQ. MI.

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ADD HYD ID=46 HYD=PH1H3 ID I=45 II=35
 PRINT HYD ID=46 CODE=10

HYDROGRAPH FROM AREA PH1H3

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	CFS
	HRS			HRS		
	CFS			CFS		
33.000	.000	.0	11.000	5.8	22.000	1.7
	.1	44.000	.0			
34.000	1.000	.0	12.000	5.4	23.000	1.6
	.1	45.000	.0			
35.000	2.000	42.0	13.000	5.1	24.000	1.5
	.0	46.000	.0			
36.000	3.000	17.7	14.000	4.7	25.000	.4
	.0	47.000	.0			
37.000	4.000	15.1	15.000	4.0	26.000	.3
	.0	48.000	.0			
38.000	5.000	13.9	16.000	3.5	27.000	.2
	.0	49.000	.0			
39.000	6.000	12.8	17.000	3.0	28.000	.2
	.0	50.000	.0			
40.000	7.000	10.3	18.000	2.7	29.000	.2
	.0	51.000	.0			
41.000	8.000	7.4	19.000	2.4	30.000	.1
	.0	52.000	.0			
42.000	9.000	6.8	20.000	2.1	31.000	.1
	.0	53.000	.0			
43.000	10.000	6.3	21.000	1.9	32.000	.1
	.0	54.000	.0			

RUNOFF VOLUME = 1.22489 INCHES = 17.0490 ACRE-FeET
 PEAK DISCHARGE RATE = 110.72 CFS AT 1.500 HOURS BASIN AREA =
 .2610 SQ. MI.

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AHYMO-N0V13C-Output

DIVIDE HYD

ID=46 Q=21.6 ID I=47 HYD N0=BYPASS.H

ID II=48 HYD N0=SURGE.H

PRINT HYD

ID=47 CODE=10

HYDROGRAPH FROM AREA BYPASS.H

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	FLOW HRS CFS
	.000	.0		11.000	5.8	22.000	1.7
33.000	.1	.0	44.000	.0	5.4	23.000	1.6
34.000	.1	.0	45.000	.0	5.1	24.000	1.5
35.000	2.000	21.6	46.000	.0	4.7	25.000	.4
36.000	.0	17.7	47.000	.0	4.0	26.000	.3
37.000	.0	15.1	48.000	.0	3.5	27.000	.2
38.000	4.000	13.9	49.000	.0	3.0	28.000	.2
39.000	.0	12.8	50.000	.0	2.7	29.000	.2
40.000	7.000	10.3	51.000	.0	2.4	30.000	.1
41.000	.0	7.4	52.000	.0	2.1	31.000	.1
42.000	9.000	6.8	53.000	.0	1.9	32.000	.1
43.000	10.000	6.3	54.000	.0			
	.0						

RUNOFF VOLUME = 1.22489 INCHES = 13.7517 ACRE-FEET
 PEAK DISCHARGE RATE = 21.60 CFS AT 1.300 HOURS BASIN AREA =
 .2105 SQ. MI.

PRINT HYD

ID=48 CODE=10

HYDROGRAPH FROM AREA SURGE.H

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	FLOW HRS CFS
	.000	.0		1.000	.0	2.000	20.4

RUNOFF VOLUME = 1.22489 INCHES = 3.2973 ACRE-FEET
 PEAK DISCHARGE RATE = 89.12 CFS AT 1.500 HOURS BASIN AREA =
 .0505 SQ. MI.

AHYMO-NOV13C-Output

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ROUTE RESERVOIR ID=30 HYD=POND.H INFLOW ID=48 CODE=5

OUTFLOW	STORAGE	DEPTH
0.0	0.0	5418.65
2.31 0.57		5420
3.88 1.62		5421
5.36 3.02		5422
100.0 4.60		5423

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5418.65	.000	.00
.50	.00	5418.65	.000	.00
1.00	.00	5418.65	.000	.00
1.50	89.12	5420.54	1.142	3.16
2.00	20.37	5421.79	2.722	5.04
2.50	2.61	5421.88	2.856	5.19
3.00	.00	5421.74	2.658	4.98
3.50	.00	5421.60	2.457	4.76
4.00	.00	5421.46	2.264	4.56
4.50	.00	5421.33	2.080	4.37
5.00	.00	5421.20	1.903	4.18
5.50	.00	5421.08	1.734	4.00
6.00	.00	5420.96	1.573	3.81
6.50	.00	5420.81	1.420	3.58
7.00	.00	5420.67	1.277	3.37
7.50	.00	5420.54	1.142	3.16
8.00	.00	5420.42	1.015	2.98
8.50	.00	5420.31	.896	2.80
9.00	.00	5420.20	.784	2.63
9.50	.00	5420.10	.678	2.47
10.00	.00	5420.01	.579	2.32
10.50	.00	5419.81	.490	1.99
11.00	.00	5419.63	.414	1.68
11.50	.00	5419.48	.351	1.42
12.00	.00	5419.35	.296	1.20
12.50	.00	5419.24	.251	1.02
13.00	.00	5419.15	.212	.86
13.50	.00	5419.07	.179	.73
14.00	.00	5419.01	.152	.61
14.50	.00	5418.95	.128	.52
15.00	.00	5418.91	.109	.44
15.50	.00	5418.87	.092	.37
16.00	.00	5418.83	.078	.31
16.50	.00	5418.81	.066	.27

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17.00	.00	5418.78	.056	.23
17.50	.00	5418.76	.047	.19
18.00	.00	5418.74	.040	.16
18.50	.00	5418.73	.034	.14
19.00	.00	5418.72	.028	.12
19.50	.00	5418.71	.024	.10
20.00	.00	5418.70	.020	.08
20.50	.00	5418.69	.017	.07
21.00	.00	5418.68	.015	.06
21.50	.00	5418.68	.012	.05
22.00	.00	5418.67	.010	.04
22.50	.00	5418.67	.009	.04
23.00	.00	5418.67	.007	.03
23.50	.00	5418.67	.006	.03
24.00	.00	5418.66	.005	.02
24.50	.00	5418.66	.005	.02
25.00	.00	5418.66	.004	.02
25.50	.00	5418.66	.003	.01
26.00	.00	5418.66	.003	.01
26.50	.00	5418.66	.002	.01
27.00	.00	5418.65	.002	.01
27.50	.00	5418.65	.002	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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28.00	.00	5418.65	.001	.01
28.50	.00	5418.65	.001	.00

PEAK DISCHARGE = 5.202 CFS - PEAK OCCURS AT HOUR 2.30

MAXIMUM WATER SURFACE ELEVATION = 5421.894

MAXIMUM STORAGE = 2.8710 AC-FT INCREMENTAL TIME= .100000HRS

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PRINT HYD

ID=30 CODE=10

HYDROGRAPH FROM AREA POND.H

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW HRS	CFS	HRS	FLOW HRS	CFS	HRS	CFS
	.000	.0		7.000	3.4	14.000	.6
21.000	.1	.0	28.000	.0			
	1.000	.0		8.000	3.0	15.000	.4
22.000	.0	.0	29.000	.0			
	2.000	5.0		9.000	2.6	16.000	.3
23.000	.0	.0	30.000	.0			
	3.000	5.0		10.000	2.3	17.000	.2
24.000	.0	.0	31.000	.0			
	4.000	4.6		11.000	1.7	18.000	.2
25.000	.0	.0	32.000	.0			
	5.000	4.2		12.000	1.2	19.000	.1
26.000	.0	.0	33.000	.0			
	6.000	3.8		13.000	.9	20.000	.1
27.000	.0	.0					

RUNOFF VOLUME = 1.22489 INCHES

= 3.2973 ACRE-FEET

PEAK DISCHARGE RATE = 5.20 CFS

AT 2.300 HOURS BASIN AREA =

.0505 SQ. MI.

AHYMO-N0V13C-Output

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COMPUTE RATING CURVE CID=1 VS N0=1 CODE=-1 SLP=0.003

DIA=2.5 N=0.013

WIDTH	RATING CURVE WATER SURFACE ELEV	PIPE SECTION FLOW AREA SQ FT	1.0 FLOW RATE CFS	MAX FT
.00	.00	.00	.00	
1.11	.13	.10	.12	
1.53	.26	.27	.51	
1.82	.39	.49	1.19	
2.03	.52	.74	2.14	
2.19	.65	1.02	3.34	
2.32	.78	1.31	4.77	
2.41	.91	1.62	6.38	
2.47	1.04	1.94	8.16	
2.50	1.17	2.26	10.06	
2.50	1.30	2.59	12.04	
2.50	1.43	2.91	14.06	
2.50	1.56	3.23	16.06	
2.50	1.69	3.54	18.00	
2.50	1.82	3.84	19.82	
2.50	1.95	4.12	21.45	
2.50	2.08	4.37	22.80	
2.50	2.21	4.60	23.77	
2.50	2.35	4.78	24.17	
2.50	2.50	4.91	24.17	

ROUTE MCUNGE

ID=49 HYD=RTE.PONDH INFLOW ID=30

DT=0.0 L=1600 NS=0 SLOPE=0.003

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

AHYMO-NOV13C-Output
 INFLOW END= 332
 DT= .100000
 WIDTH MED= 2.09
 TABLE PTS= 19
 QMED= 2.60
 CKMED= 4.3547
 DX= 800.00
 NREACH= 2

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.500	.0	2.22	.57	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.13	.1	.1	.368	1.1	2.18	1.21	.980	.020	.980
.000	.020	.0	.997	.000	.003					
	.26	.3	.5	.236	1.5	2.74	1.88	1.234	.051	.955
.125	-.080	.3	.962	.030	.008					
	.39	.5	1.2	.183	1.8	3.47	2.43	1.562	.079	.940
.243	-.183	.8	.947	.188	-.135					
	.52	.7	2.1	.154	2.0	4.09	2.88	1.839	.107	.927
.321	-.248	1.6	.933	.285	-.218					
	.65	1.0	3.3	.135	2.2	4.61	3.28	2.075	.137	.914
.377	-.292	2.7	.920	.352	-.272					
	.78	1.3	4.8	.122	2.3	5.06	3.63	2.275	.169	.902
.419	-.321	4.0	.908	.400	-.308					
	.91	1.6	6.4	.113	2.4	5.43	3.94	2.444	.203	.888
.452	-.340	5.6	.895	.437	-.332					
	1.04	1.9	8.2	.105	2.5	5.74	4.21	2.582	.240	.874
.477	-.351	7.3	.882	.466	-.347					
	1.17	2.3	10.1	.100	2.5	5.98	4.45	2.691	.281	.858
.496	-.355	9.1	.867	.488	-.355					
	1.30	2.6	12.0	.095	2.5	6.15	4.66	2.766	.327	.840
.511	-.352	11.0	.850	.505	-.355					
	1.43	2.9	14.1	.092	2.5	6.19	4.83	2.784	.379	.818
.520	-.338	13.0	.830	.517	-.347					
	1.56	3.2	16.1	.089	2.5	6.07	4.97	2.732	.441	.789
.521	-.309	15.1	.805	.521	-.326					
	1.69	3.5	18.0	.087	2.5	5.78	5.09	2.602	.519	.748
.515	-.263	17.0	.771	.519	-.290					
	1.82	3.8	19.8	.086	2.5	5.30	5.17	2.385	.623	.689
.501	-.190	18.9	.723	.509	-.232					
	1.95	4.1	21.4	.085	2.5	4.59	5.21	2.064	.779	.594
.480	-.074	20.6	.650	.492	-.142					
	2.08	4.4	22.8	.085	2.5	3.57	5.21	1.607	1.064	.420
.455	.125	22.1	.527	.468	.005					
	2.21	4.6	23.8	.086	2.5	2.09	5.17	.941	1.894	.012
.479	.509	23.3	.283	.451	.266					
	2.35	4.8	24.2	.088	2.5	1.19	5.05	.536	3.379	-.375
.593	.782	24.0	-.184	.537	.647					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 3 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.1687
 Equations solved using the Ponce correction to C2
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PRINT HYD ID=49 CODE=0

HYDROGRAPH FROM AREA RTE.PONDH

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	FLOW HRS CFS
	.000	.0		6.700	3.5	13.400	.8
20.100	.1		26.800	.0			

AHYMO-NOV13C-Output						
	.100	.0	6.800	3.5	13.500	.8
20.200	.1	26.900	.0			
	.200	.0	6.900	3.4	13.600	.7
20.300	.1	27.000	.0			
	.300	.0	7.000	3.4	13.700	.7
20.400	.1	27.100	.0			
	.400	.0	7.100	3.4	13.800	.7
20.500	.1	27.200	.0			
	.500	.0	7.200	3.3	13.900	.7
20.600	.1	27.300	.0			
	.600	.0	7.300	3.3	14.000	.6
20.700	.1	27.400	.0			
	.700	.0	7.400	3.2	14.100	.6
20.800	.1	27.500	.0			
	.800	.0	7.500	3.2	14.200	.6
20.900	.1	27.600	.0			
	.900	.0	7.600	3.2	14.300	.6
21.000	.1	27.700	.0			
	1.000	.0	7.700	3.1	14.400	.6
21.100	.1	27.800	.0			
	1.100	.0	7.800	3.1	14.500	.5
21.200	.1	27.900	.0			
	1.200	.0	7.900	3.0	14.600	.5
21.300	.1	28.000	.0			
	1.300	.0	8.000	3.0	14.700	.5
21.400	.1	28.100	.0			
	1.400	.0	8.100	3.0	14.800	.5
21.500	.1	28.200	.0			
	1.500	1.3	8.200	2.9	14.900	.5
21.600	.1	28.300	.0			
	1.600	3.4	8.300	2.9	15.000	.5
21.700	.0	28.400	.0			
	1.700	4.0	8.400	2.9	15.100	.5
21.800	.0	28.500	.0			
	1.800	4.5	8.500	2.8	15.200	.4
21.900	.0	28.600	.0			
	1.900	4.7	8.600	2.8	15.300	.4
22.000	.0	28.700	.0			
	2.000	4.9	8.700	2.8	15.400	.4
22.100	.0	28.800	.0			
	2.100	5.1	8.800	2.7	15.500	.4
22.200	.0	28.900	.0			
	2.200	5.2	8.900	2.7	15.600	.4
22.300	.0	29.000	.0			
	2.300	5.2	9.000	2.7	15.700	.4
22.400	.0	29.100	.0			
	2.400	5.2	9.100	2.6	15.800	.4
22.500	.0	29.200	.0			
	2.500	5.2	9.200	2.6	15.900	.3
22.600	.0	29.300	.0			
	2.600	5.2	9.300	2.6	16.000	.3
22.700	.0	29.400	.0			
	2.700	5.1	9.400	2.5	16.100	.3
22.800	.0	29.500	.0			
	2.800	5.1	9.500	2.5	16.200	.3
22.900	.0	29.600	.0			
	2.900	5.1	9.600	2.5	16.300	.3
23.000	.0	29.700	.0			
	3.000	5.0	9.700	2.4	16.400	.3
23.100	.0	29.800	.0			
	3.100	5.0	9.800	2.4	16.500	.3
23.200	.0	29.900	.0			
	3.200	4.9	9.900	2.4	16.600	.3

AHYMO-NOV13C-Output

23.300	.0	30.000	.0			
	3.300	4.9	10.000	2.4	16.700	.3
23.400	.0	30.100	.0			
	3.400	4.8	10.100	2.3	16.800	.3
23.500	.0	30.200	.0			
	3.500	4.8	10.200	2.3	16.900	.2
23.600	.0	30.300	.0			
	3.600	4.8	10.300	2.2	17.000	.2
23.700	.0	30.400	.0			
	3.700	4.7	10.400	2.1	17.100	.2
23.800	.0	30.500	.0			
	3.800	4.7	10.500	2.1	17.200	.2
23.900	.0	30.600	.0			
	3.900	4.6	10.600	2.0	17.300	.2
24.000	.0	30.700	.0			
	4.000	4.6	10.700	1.9	17.400	.2
24.100	.0	30.800	.0			
	4.100	4.6	10.800	1.9	17.500	.2
24.200	.0	30.900	.0			
	4.200	4.5	10.900	1.8	17.600	.2
24.300	.0	31.000	.0			
	4.300	4.5	11.000	1.7	17.700	.2
24.400	.0	31.100	.0			
	4.400	4.4	11.100	1.7	17.800	.2
24.500	.0	31.200	.0			
	4.500	4.4	11.200	1.6	17.900	.2
24.600	.0	31.300	.0			
	4.600	4.4	11.300	1.6	18.000	.2
24.700	.0	31.400	.0			
	4.700	4.3	11.400	1.5	18.100	.2
24.800	.0	31.500	.0			
	4.800	4.3	11.500	1.5	18.200	.2
24.900	.0	31.600	.0			
	4.900	4.2	11.600	1.4	18.300	.2
25.000	.0	31.700	.0			
	5.000	4.2	11.700	1.4	18.400	.2
25.100	.0	31.800	.0			
	5.100	4.2	11.800	1.3	18.500	.1
25.200	.0	31.900	.0			
	5.200	4.1	11.900	1.3	18.600	.1
25.300	.0	32.000	.0			
	5.300	4.1	12.000	1.3	18.700	.1
25.400	.0	32.100	.0			
	5.400	4.1	12.100	1.2	18.800	.1
25.500	.0	32.200	.0			
	5.500	4.0	12.200	1.2	18.900	.1
25.600	.0	32.300	.0			
	5.600	4.0	12.300	1.1	19.000	.1
25.700	.0	32.400	.0			
	5.700	4.0	12.400	1.1	19.100	.1
25.800	.0	32.500	.0			
	5.800	3.9	12.500	1.1	19.200	.1
25.900	.0	32.600	.0			
	5.900	3.9	12.600	1.0	19.300	.1
26.000	.0	32.700	.0			
	6.000	3.9	12.700	1.0	19.400	.1
26.100	.0	32.800	.0			
	6.100	3.8	12.800	1.0	19.500	.1
26.200	.0	32.900	.0			
	6.200	3.8	12.900	.9	19.600	.1
26.300	.0	33.000	.0			
	6.300	3.7	13.000	.9	19.700	.1
26.400	.0	33.100	.0			

AHYMO-NOV13C-Output

26.500	6.400 .0	3.7 33.200	13.100 .0	.9	19.800	.1
26.600	6.500 .0	3.6 33.300	13.200 .0	.8	19.900	.1
26.700	6.600 .0	3.6	13.300	.8	20.000	.1

RUNOFF VOLUME = 1.22499 INCHES = 3.2976 ACRE-FEET
 PEAK DISCHARGE RATE = 5.20 CFS AT 2.400 HOURS BASIN AREA =
 .0505 SQ. MI.

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ADD HYD

ID=31 HYD=BYPASS.RTE.H ID I=49 II=47

PRINT HYD

ID=31 CODE=10

HYDROGRAPH FROM AREA BYPASS.RTE.H

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
33.000	.000 .1	.0	11.000 .0	7.6	22.000 .1	1.8
34.000	1.000 .1	.0	12.000 .0	6.7	23.000 .1	1.6
35.000	2.000 .0	26.5	13.000 .0	6.0	24.000 .0	1.5
36.000	3.000 .0	22.7	14.000 .0	5.3	25.000 .0	.4
37.000	4.000 .0	19.7	15.000 .0	4.5	26.000 .0	.3
38.000	5.000 .0	18.1	16.000 .0	3.8	27.000 .0	.2
39.000	6.000 .0	16.6	17.000 .0	3.3	28.000 .0	.2
40.000	7.000 .0	13.7	18.000 .0	2.8	29.000 .0	.2
41.000	8.000 .0	10.4	19.000 .0	2.5	30.000 .0	.1
42.000	9.000 .0	9.4	20.000 .0	2.2	31.000 .0	.1
43.000	10.000 .0	8.6	21.000 .0	2.0	32.000 .0	.1

RUNOFF VOLUME = 1.22490 INCHES = 17.0492 ACRE-FEET
 PEAK DISCHARGE RATE = 26.80 CFS AT 2.400 HOURS BASIN AREA =
 .2610 SQ. MI.

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*****TIERRA VISTA*****

AHYMO-N0V13C-Output

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COMPUTE NM HYD ID=20 HYD N0=BASIN.K1 DA=.02673 SQ MI

%A=0.0 %B=19.0 %C=19.0 %D=62.0

TP=-.1715 HR RAIN=-1

K = .093468HR TP = .171500HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 50.856 CFS UNIT VOLUME = 1.006 B = 526.28
 P60 = 1.8400
 AREA = .016573 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .152490HR TP = .171500HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989068
 UNIT PEAK = 20.992 CFS UNIT VOLUME = 1.004 B = 354.44
 P60 = 1.8400
 AREA = .010157 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=20 CODE=10

HYDROGRAPH FROM AREA BASIN.K1

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		6.000	.4	12.000	.3
18.000	.2		24.000	.2			
	1.000	.0		7.000	.4	13.000	.3
19.000	.2		25.000	.0			
	2.000	13.4		8.000	.4	14.000	.3
20.000	.2			9.000	.4	15.000	.3
	3.000	.9		10.000	.3	16.000	.3
21.000	.2			11.000	.3	17.000	.2
	4.000	.4					
22.000	.2						
	5.000	.3					
23.000	.2						

RUNOFF VOLUME = 1.80886 INCHES = 2.5787 ACRE-FEET
 PEAK DISCHARGE RATE = 50.54 CFS AT 1.500 HOURS BASIN AREA =
 .0267 SQ. MI.

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ADD HYD

ID=32 HYD=PONDH.K1 ID I=31 II=20

AHYMO-N0V13C-Output

PRINT HYD

ID=32 CODE=10

HYDROGRAPH FROM AREA PONDH.K1

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	HRS	CFS
	HRS			HRS		
	CFS			CFS		
33.000	.000	.0	11.000	7.9	22.000	2.0
	.1		44.000	.0	23.000	1.8
34.000	1.000	.0	45.000	.0	24.000	1.7
	.1		46.000	.0	25.000	.4
35.000	2.000	39.9	47.000	.0	26.000	.3
	.0		48.000	.0	27.000	.2
36.000	3.000	23.6	49.000	.0	28.000	.2
	.0		50.000	.0	29.000	.2
37.000	4.000	20.1	51.000	.0	30.000	.1
	.0		52.000	.0	31.000	.1
38.000	5.000	18.5	53.000	.0	32.000	.1
	.0		54.000	.0		
39.000	6.000	17.0				
	.0					
40.000	7.000	14.1				
	.0					
41.000	8.000	10.8				
	.0					
42.000	9.000	9.8				
	.0					
43.000	10.000	9.0				
	.0					

RUNOFF VOLUME = 1.27915 INCHES = 19.6279 ACRE-FEET
 PEAK DISCHARGE RATE = 73.46 CFS AT 1.500 HOURS BASIN AREA =
 .2877 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS N0=1 CODE=-1 SLP=0.0088

DIA=4.5 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE	FLOW AREA	1.0 FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
2.00	.23	.32	.97	
2.75	.47	.88	4.20	
3.27	.70	1.59	9.77	
	.94	2.40	17.56	

AHYMO-N0V13C-Output

3.66			
	1.17	3.30	27.42
3.95			
	1.41	4.25	39.13
4.17			
	1.64	5.25	52.42
4.33			
	1.88	6.28	67.02
4.44			
	2.11	7.32	82.62
4.49			
	2.35	8.38	98.88
4.50			
	2.58	9.43	115.44
4.50			
	2.81	10.46	131.90
4.50			
	3.05	11.47	147.83
4.50			
	3.28	12.43	162.76
4.50			
	3.52	13.34	176.11
4.50			
	3.75	14.17	187.22
4.50			
	3.99	14.90	195.17
4.50			
	4.22	15.50	198.44
4.50			
	4.50	15.90	198.44

ROUTE MCUNGE

ID=33 HYD=RTE.K1 INFLOW ID=32

DT=0.0 L=800 NS=0 SLOPE=0.0088

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

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PRINT HYD

ID=33 CODE=0

HYDROGRAPH FROM AREA RTE.K1

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	TIME FLOW HRS CFS	TIME FLOW HRS CFS	TIME FLOW HRS CFS
	.000	.0		10.900	8.0	21.800
32.700	.1	43.600	.0			2.0
	.100	.0		11.000	7.9	21.900
32.800	.1	43.700	.0			2.0
	.200	.0		11.100	7.8	22.000
32.900	.1	43.800	.0			2.0
	.300	.0		11.200	7.7	22.100
33.000	.1	43.900	.0			2.0
	.400	.0		11.300	7.6	22.200
33.100	.1	44.000	.0			1.9
	.500	.0		11.400	7.5	22.300
33.200	.1	44.100	.0			1.9
	.600	.0		11.500	7.4	22.400

AHYMO-NOV13C-Output

33.300	.1	44.200	.0			
	.700	.0	11.600	7.3	22.500	1.9
33.400	.1	44.300	.0			
	.800	.0	11.700	7.2	22.600	1.9
33.500	.1	44.400	.0			
	.900	.0	11.800	7.1	22.700	1.9
33.600	.1	44.500	.0			
	1.000	.0	11.900	7.1	22.800	1.8
33.700	.1	44.600	.0			
	1.100	.7	12.000	7.0	22.900	1.8
33.800	.1	44.700	.0			
	1.200	16.0	12.100	6.9	23.000	1.8
33.900	.1	44.800	.0			
	1.300	31.7	12.200	6.8	23.100	1.8
34.000	.1	44.900	.0			
	1.400	54.1	12.300	6.8	23.200	1.8
34.100	.1	45.000	.0			
	1.500	73.5	12.400	6.7	23.300	1.8
34.200	.1	45.100	.0			
	1.600	67.9	12.500	6.6	23.400	1.7
34.300	.1	45.200	.0			
	1.700	54.8	12.600	6.5	23.500	1.7
34.400	.1	45.300	.0			
	1.800	47.3	12.700	6.5	23.600	1.7
34.500	.1	45.400	.0			
	1.900	42.8	12.800	6.4	23.700	1.7
34.600	.1	45.500	.0			
	2.000	39.9	12.900	6.3	23.800	1.7
34.700	.1	45.600	.0			
	2.100	36.6	13.000	6.2	23.900	1.7
34.800	.1	45.700	.0			
	2.200	32.6	13.100	6.2	24.000	1.7
34.900	.0	45.800	.0			
	2.300	30.8	13.200	6.1	24.100	1.4
35.000	.0	45.900	.0			
	2.400	29.9	13.300	6.1	24.200	.9
35.100	.0	46.000	.0			
	2.500	29.2	13.400	6.0	24.300	.7
35.200	.0	46.100	.0			
	2.600	28.7	13.500	5.9	24.400	.6
35.300	.0	46.200	.0			
	2.700	27.2	13.600	5.9	24.500	.5
35.400	.0	46.300	.0			
	2.800	25.6	13.700	5.8	24.600	.5
35.500	.0	46.400	.0			
	2.900	24.5	13.800	5.8	24.700	.5
35.600	.0	46.500	.0			
	3.000	23.6	13.900	5.7	24.800	.4
35.700	.0	46.600	.0			
	3.100	22.9	14.000	5.6	24.900	.4
35.800	.0	46.700	.0			
	3.200	22.4	14.100	5.5	25.000	.4
35.900	.0	46.800	.0			
	3.300	21.9	14.200	5.4	25.100	.4
36.000	.0	46.900	.0			
	3.400	21.6	14.300	5.3	25.200	.4
36.100	.0	47.000	.0			
	3.500	21.3	14.400	5.2	25.300	.4
36.200	.0	47.100	.0			
	3.600	21.0	14.500	5.1	25.400	.3
36.300	.0	47.200	.0			
	3.700	20.7	14.600	5.1	25.500	.3
36.400	.0	47.300	.0			

			AHYMO-NOV13C-Output			
	3.800	20.5	14.700	5.0	25.600	.3
36.500	.0	47.400	.0			
	3.900	20.3	14.800	4.9	25.700	.3
36.600	.0	47.500	.0			
	4.000	20.1	14.900	4.8	25.800	.3
36.700	.0	47.600	.0			
	4.100	19.9	15.000	4.7	25.900	.3
36.800	.0	47.700	.0			
	4.200	19.7	15.100	4.7	26.000	.3
36.900	.0	47.800	.0			
	4.300	19.5	15.200	4.6	26.100	.3
37.000	.0	47.900	.0			
	4.400	19.3	15.300	4.5	26.200	.3
37.100	.0	48.000	.0			
	4.500	19.2	15.400	4.5	26.300	.3
37.200	.0	48.100	.0			
	4.600	19.0	15.500	4.4	26.400	.3
37.300	.0	48.200	.0			
	4.700	18.9	15.600	4.3	26.500	.3
37.400	.0	48.300	.0			
	4.800	18.7	15.700	4.3	26.600	.3
37.500	.0	48.400	.0			
	4.900	18.6	15.800	4.2	26.700	.3
37.600	.0	48.500	.0			
	5.000	18.5	15.900	4.1	26.800	.3
37.700	.0	48.600	.0			
	5.100	18.3	16.000	4.1	26.900	.3
37.800	.0	48.700	.0			
	5.200	18.2	16.100	4.0	27.000	.2
37.900	.0	48.800	.0			
	5.300	18.1	16.200	3.9	27.100	.2
38.000	.0	48.900	.0			
	5.400	17.9	16.300	3.9	27.200	.2
38.100	.0	49.000	.0			
	5.500	17.8	16.400	3.8	27.300	.2
38.200	.0	49.100	.0			
	5.600	17.6	16.500	3.8	27.400	.2
38.300	.0	49.200	.0			
	5.700	17.5	16.600	3.7	27.500	.2
38.400	.0	49.300	.0			
	5.800	17.3	16.700	3.7	27.600	.2
38.500	.0	49.400	.0			
	5.900	17.2	16.800	3.6	27.700	.2
38.600	.0	49.500	.0			
	6.000	17.0	16.900	3.6	27.800	.2
38.700	.0	49.600	.0			
	6.100	16.8	17.000	3.5	27.900	.2
38.800	.0	49.700	.0			
	6.200	16.7	17.100	3.5	28.000	.2
38.900	.0	49.800	.0			
	6.300	16.5	17.200	3.4	28.100	.2
39.000	.0	49.900	.0			
	6.400	16.2	17.300	3.4	28.200	.2
39.100	.0	50.000	.0			
	6.500	16.0	17.400	3.3	28.300	.2
39.200	.0	50.100	.0			
	6.600	15.7	17.500	3.3	28.400	.2
39.300	.0	50.200	.0			
	6.700	15.3	17.600	3.2	28.500	.2
39.400	.0	50.300	.0			
	6.800	14.8	17.700	3.2	28.600	.2
39.500	.0	50.400	.0			
	6.900	14.5	17.800	3.2	28.700	.2

AHYMO-NOV13C-Output

39.600	.0	50.500	.0			
	7.000	14.1	17.900	3.1	28.800	.2
39.700	.0	50.600	.0			
	7.100	13.9	18.000	3.1	28.900	.2
39.800	.0	50.700	.0			
	7.200	13.4	18.100	3.1	29.000	.2
39.900	.0	50.800	.0			
	7.300	12.7	18.200	3.0	29.100	.2
40.000	.0	50.900	.0			
	7.400	12.2	18.300	2.9	29.200	.2
40.100	.0	51.000	.0			
	7.500	11.9	18.400	2.9	29.300	.2
40.200	.0	51.100	.0			
	7.600	11.5	18.500	2.9	29.400	.2
40.300	.0	51.200	.0			
	7.700	11.3	18.600	2.8	29.500	.1
40.400	.0	51.300	.0			
	7.800	11.1	18.700	2.8	29.600	.1
40.500	.0	51.400	.0			
	7.900	11.0	18.800	2.8	29.700	.1
40.600	.0	51.500	.0			
	8.000	10.8	18.900	2.7	29.800	.1
40.700	.0	51.600	.0			
	8.100	10.7	19.000	2.7	29.900	.1
40.800	.0	51.700	.0			
	8.200	10.5	19.100	2.7	30.000	.1
40.900	.0	51.800	.0			
	8.300	10.4	19.200	2.7	30.100	.1
41.000	.0	51.900	.0			
	8.400	10.3	19.300	2.6	30.200	.1
41.100	.0	52.000	.0			
	8.500	10.2	19.400	2.6	30.300	.1
41.200	.0	52.100	.0			
	8.600	10.1	19.500	2.6	30.400	.1
41.300	.0	52.200	.0			
	8.700	10.1	19.600	2.5	30.500	.1
41.400	.0	52.300	.0			
	8.800	9.9	19.700	2.5	30.600	.1
41.500	.0	52.400	.0			
	8.900	9.9	19.800	2.5	30.700	.1
41.600	.0	52.500	.0			
	9.000	9.8	19.900	2.5	30.800	.1
41.700	.0	52.600	.0			
	9.100	9.7	20.000	2.4	30.900	.1
41.800	.0	52.700	.0			
	9.200	9.6	20.100	2.4	31.000	.1
41.900	.0	52.800	.0			
	9.300	9.5	20.200	2.4	31.100	.1
42.000	.0	52.900	.0			
	9.400	9.5	20.300	2.3	31.200	.1
42.100	.0	53.000	.0			
	9.500	9.4	20.400	2.3	31.300	.1
42.200	.0	53.100	.0			
	9.600	9.3	20.500	2.3	31.400	.1
42.300	.0	53.200	.0			
	9.700	9.2	20.600	2.3	31.500	.1
42.400	.0	53.300	.0			
	9.800	9.1	20.700	2.2	31.600	.1
42.500	.0	53.400	.0			
	9.900	9.0	20.800	2.2	31.700	.1
42.600	.0	53.500	.0			
	10.000	9.0	20.900	2.2	31.800	.1
42.700	.0	53.600	.0			

AHYMO-NOV13C-Output						
	10.100	8.9	21.000	2.2	31.900	.1
42.800	.0	53.700	.0			
	10.200	8.8	21.100	2.2	32.000	.1
42.900	.0	53.800	.0			
	10.300	8.7	21.200	2.1	32.100	.1
43.000	.0	53.900	.0			
	10.400	8.5	21.300	2.1	32.200	.1
43.100	.0	54.000	.0			
	10.500	8.4	21.400	2.1	32.300	.1
43.200	.0	54.100	.0			
	10.600	8.3	21.500	2.1	32.400	.1
43.300	.0	54.200	.0			
	10.700	8.2	21.600	2.0	32.500	.1
43.400	.0	54.300	.0			
	10.800	8.1	21.700	2.0	32.600	.1
43.500	.0	54.400	.0			

RUNOFF VOLUME = 1.27915 INCHES = 19.6279 ACRE-FEET
 PEAK DISCHARGE RATE = 73.46 CFS AT 1.500 HOURS BASIN AREA =
 .2877 SQ. MI.

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COMPUTE NM HYD ID=21 HYD NO=BASIN.K2 DA=.01486 SQ MI

%A=0.0 %B=15.0 %C=15.0 %D=70.0

TP=-.1715 HR RAIN=-1

K = .093468HR TP = .171500HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 31.920 CFS UNIT VOLUME = 1.005 B = 526.28
 P60 = 1.8400
 AREA = .010402 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .152490HR TP = .171500HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989068
 UNIT PEAK = 9.2134 CFS UNIT VOLUME = 1.003 B = 354.44
 P60 = 1.8400
 AREA = .004458 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=21 CODE=10

HYDROGRAPH FROM AREA BASIN.K2

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			HRS
	CFS			CFS			CFS

AHYMO-NOV13C-Output

	.000	.0	6.000	.2	12.000	.2
18.000	.1	24.000	.1			
	1.000	.0	7.000	.2	13.000	.2
19.000	.1	25.000	.0			
	2.000	8.1	8.000	.2	14.000	.2
20.000	.1					
	3.000	.5	9.000	.2	15.000	.2
21.000	.1					
	4.000	.2	10.000	.2	16.000	.2
22.000	.1					
	5.000	.2	11.000	.2	17.000	.2
23.000	.1					

RUNOFF VOLUME = 1.93922 INCHES = 1.5369 ACRE-FEET
 PEAK DISCHARGE RATE = 29.39 CFS AT 1.500 HOURS BASIN AREA =
 .0149 SQ. MI.

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ADD HYD ID=34 HYD=K1.K2 ID I=33 II=21
 PRINT HYD ID=34 CODE=10

HYDROGRAPH FROM AREA K1.K2

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0	11.000	8.1	22.000	2.1	
33.000	.1	44.000	.0				
	1.000	.0	12.000	7.2	23.000	1.9	
34.000	.1	45.000	.0				
	2.000	48.0	13.000	6.4	24.000	1.8	
35.000	.0	46.000	.0				
	3.000	24.1	14.000	5.7	25.000	.4	
36.000	.0	47.000	.0				
	4.000	20.3	15.000	4.9	26.000	.3	
37.000	.0	48.000	.0				
	5.000	18.7	16.000	4.2	27.000	.2	
38.000	.0	49.000	.0				
	6.000	17.2	17.000	3.7	28.000	.2	
39.000	.0	50.000	.0				
	7.000	14.4	18.000	3.2	29.000	.2	
40.000	.0	51.000	.0				
	8.000	11.0	19.000	2.9	30.000	.1	
41.000	.0	52.000	.0				
	9.000	10.0	20.000	2.6	31.000	.1	
42.000	.0	53.000	.0				
	10.000	9.2	21.000	2.3	32.000	.1	
43.000	.0	54.000	.0				

RUNOFF VOLUME = 1.31157 INCHES = 21.1647 ACRE-FEET
 PEAK DISCHARGE RATE = 102.85 CFS AT 1.500 HOURS BASIN AREA =
 .3026 SQ. MI.

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AHYMO-N0V13C-Output

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COMPUTE NM HYD ID=22 HYD N0=BASIN.K3 DA=.00648 SQ MI

%A=0 %B=5.0 %C=5.0 %D=90.0

TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 23.077 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .005832 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.7269 CFS UNIT VOLUME = 1.001 B = 354.44
 P60 = 1.8400
 AREA = .000648 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=22 CODE=10

HYDROGRAPH FROM AREA BASIN.K3

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		5.000	.1	10.000	.1
15.000	.1		20.000	.1			
	1.000	.0		6.000	.1	11.000	.1
16.000	.1		21.000	.1			
	2.000	3.8		7.000	.1	12.000	.1
17.000	.1		22.000	.1			
	3.000	.2		8.000	.1	13.000	.1
18.000	.1		23.000	.1			
	4.000	.1		9.000	.1	14.000	.1
19.000	.1		24.000	.1			

RUNOFF VOLUME = 2.26512 INCHES = .7828 ACRE-FEET
 PEAK DISCHARGE RATE = 14.72 CFS AT 1.500 HOURS BASIN AREA =
 .0065 SQ. MI.

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ADD HYD ID=24 HYD=PONDG.K3 ID I=79 II=22

PRINT HYD ID=24 CODE=10

AHYMO-N0V13C-Output

HYDROGRAPH FROM AREA PONDG.K3

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		12.000	24.7	24.000	8.0
36.000	.0		48.000	.0		25.000	2.0
	1.000	.0		13.000	24.6		
37.000	.0		49.000	.0		26.000	.8
	2.000	27.5		14.000	24.4		
38.000	.0		50.000	.0		27.000	.4
	3.000	25.0		15.000	24.3		
39.000	.0		51.000	.0		28.000	.2
	4.000	24.9		16.000	24.1		
40.000	.0		52.000	.0		29.000	.2
	5.000	24.9		17.000	23.8		
41.000	.0		53.000	.0		30.000	.1
	6.000	24.9		18.000	23.4		
42.000	.0		54.000	.0		31.000	.1
	7.000	24.9		19.000	22.9		
43.000	.0		55.000	.0		32.000	.1
	8.000	24.9		20.000	20.9		
44.000	.0		56.000	.0		33.000	.1
	9.000	24.9		21.000	17.8		
45.000	.0			22.000	15.1	34.000	.1
	10.000	24.8		23.000	12.5	35.000	.0
46.000	.0						
	11.000	24.7					
47.000	.0						

RUNOFF VOLUME = 1.32697 INCHES = 43.7876 ACRE-FEET
 PEAK DISCHARGE RATE = 32.82 CFS AT 1.500 HOURS BASIN AREA =
 .6187 SQ. MI.

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COMPUTE NM HYD ID=23 HYD N0=BASIN.K4 DA=.0134 SQ MI

%A=0.0 %B=70.0 %C=30.0 %D=0.0

TP=-.133 HR RAIN=-1

K = .123444HR TP = .133000HR K/TP RATIO = .928150 SHAPE
 CONSTANT, N = 3.811914
 UNIT PEAK = 34.500 CFS UNIT VOLUME = 1.004 B = 342.43
 P60 = 1.8400
 AREA = .013400 SQ MI IA = .45500 INCHES INF = 1.12400
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=23 CODE=10

AHYMO-N0V13C-Output
HYDROGRAPH FROM AREA BASIN.K4

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
3.000	.000 .1	.0	4.000	1.000 .0	.0	2.000	1.5

RUNOFF VOLUME = .73726 INCHES = .5269 ACRE-FEET
 PEAK DISCHARGE RATE = 18.28 CFS AT 1.500 HOURS BASIN AREA =
 .0134 SQ. MI.

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ADD HYD ID=25 HYD=K3.K4 ID I=24 II=23
 PRINT HYD ID=25 CODE=10

HYDROGRAPH FROM AREA K3.K4

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
36.000	.000 .0	.0	48.000	12.000 .0	24.7	24.000	8.0
37.000	1.000 .0	.0	49.000	13.000 .0	24.6	25.000	2.0
38.000	2.000 .0	29.1	50.000	14.000 .0	24.4	26.000	.8
39.000	3.000 .0	25.1	51.000	15.000 .0	24.3	27.000	.4
40.000	4.000 .0	24.9	52.000	16.000 .0	24.1	28.000	.2
41.000	5.000 .0	24.9	53.000	17.000 .0	23.8	29.000	.2
42.000	6.000 .0	24.9	54.000	18.000 .0	23.4	30.000	.1
43.000	7.000 .0	24.9	55.000	19.000 .0	22.9	31.000	.1
44.000	8.000 .0	24.9	56.000	20.000 .0	20.9	32.000	.1
45.000	9.000 .0	24.9		21.000	17.8	33.000	.1
46.000	10.000 .0	24.8		22.000	15.1	34.000	.1
47.000	11.000 .0	24.7		23.000	12.5	35.000	.0

RUNOFF VOLUME = 1.31447 INCHES = 44.3145 ACRE-FEET
 PEAK DISCHARGE RATE = 51.10 CFS AT 1.500 HOURS BASIN AREA =
 .6321 SQ. MI.

AHYMO-N0V13C-Output

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*****BASINS 2, B, E, H, L ARE LATER ROUTED THROUGH POND K*****

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COMPUTE NM HYD ID=81 HYD NO=BASIN.J1 DA=.00517 SQ MI

%A=0.0 %B=12.5 %C=12.5 %D=75.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 15.309 CFS UNIT VOLUME = 1.029 B = 526.28
 P60 = 1.8400
 AREA = .003878 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 3.4367 CFS UNIT VOLUME = 1.004 B = 354.44
 P60 = 1.8400
 AREA = .001293 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=81 CODE=10

HYDROGRAPH FROM AREA BASIN.J1

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW HRS	FLOW CFS
	.000	.0		5.000	.1	10.000	.1	
15.000	.1	.0		6.000	.1	11.000	.1	
16.000	.1	.0		7.000	.1	12.000	.1	
17.000	.1	.1		8.000	.1	13.000	.1	
18.000	.1	.1		9.000	.1	14.000	.1	
19.000	.1	.1		20.000	.1			
				21.000	.0			
				22.000	.0			
				23.000	.0			
				24.000	.0			

RUNOFF VOLUME = 2.02069 INCHES = .5572 ACRE-FEET
 PEAK DISCHARGE RATE = 11.04 CFS AT 1.500 HOURS BASIN AREA =
 .0052 SQ. MI.

AHYMO-N0V13C-Output

*

*****CANTATA*****

*

COMPUTE NM HYD ID=82 HYD NO=BASIN.J2 DA=.01706 SQ MI

%A=0.0 %B=12.5 %C=12.5 %D=75.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 50.515 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .012795 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 11.340 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .004265 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=82 CODE=10

HYDROGRAPH FROM AREA BASIN.J2

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
15.000	.000	.0	20.000	5.000	.3	10.000	.3
16.000	1.000	.0	21.000	6.000	.3	11.000	.2
17.000	2.000	8.7	22.000	7.000	.3	12.000	.2
18.000	3.000	.5	23.000	8.000	.3	13.000	.2
19.000	4.000	.3	24.000	9.000	.3	14.000	.2

RUNOFF VOLUME = 2.02069 INCHES = 1.8386 ACRE-FEET
 PEAK DISCHARGE RATE = 36.40 CFS AT 1.500 HOURS BASIN AREA =
 .0171 SQ. MI.

*

COMPUTE NM HYD ID=83 HYD NO=BASIN.J3 DA=.00580 SQ MI

AHYMO-N0V13C-Output

%A=0.0 %B=19.0 %C=19.0 %D=62.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 14.197 CFS UNIT VOLUME = 1.029 B = 526.28
 P60 = 1.8400
 AREA = .003596 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 5.8604 CFS UNIT VOLUME = 1.005 B = 354.44
 P60 = 1.8400
 AREA = .002204 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=83 CODE=10

HYDROGRAPH FROM AREA BASIN.J3

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
	.000	.0		5.000	.1	10.000	.1
15.000	.1	.0	20.000	.0	.1	11.000	.1
16.000	.1	.0	21.000	.0	.1	12.000	.1
17.000	.1	2.6	22.000	.0	.1	13.000	.1
18.000	.1	.1	23.000	.0	.1	14.000	.1
19.000	.0	.1	24.000	.0	.1		

RUNOFF VOLUME = 1.80886 INCHES = .5595 ACRE-FEET
 PEAK DISCHARGE RATE = 11.70 CFS AT 1.500 HOURS BASIN AREA =
 .0058 SQ. MI.

*

*****CANTATA*****

*

COMPUTE NM HYD ID=84 HYD NO=BASIN.J4 DA=.01006 SQ MI

%A=0.0 %B=12.5 %C=12.5 %D=75.0

TP=-.1333 HR RAIN=-1

AHYMO-N0V13C-Output

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 29.788 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .007545 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 6.6873 CFS UNIT VOLUME = 1.006 B = 354.44
 P60 = 1.8400
 AREA = .002515 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=84 CODE=10

HYDROGRAPH FROM AREA BASIN.J4

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		5.000	.2	10.000	.2
15.000	.1	.0	20.000	.1	.2	11.000	.1
16.000	.1	.0	21.000	.1	.2	12.000	.1
	2.000	5.2		7.000	.2		.1
17.000	.1	.3	22.000	.1	.2	13.000	.1
18.000	.1	.2	23.000	.1	.2	14.000	.1
	4.000	.2		9.000	.2		.1
19.000	.1	.2	24.000	.1			

RUNOFF VOLUME = 2.02069 INCHES = 1.0842 ACRE-FEET
 PEAK DISCHARGE RATE = 21.47 CFS AT 1.500 HOURS BASIN AREA =
 .0101 SQ. MI.

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COMPUTE NM HYD ID=85 HYD NO=BASIN.J5 DA=.00134 SQ MI

%A=0.0 %B=5.0 %C=5.0 %D=90.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 4.7614 CFS UNIT VOLUME = 1.028 B = 526.28
 P60 = 1.8400
 AREA = .001206 SQ MI IA = .10000 INCHES INF = .04000

AHYMO-N0V13C-Output

INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = .35630 CFS UNIT VOLUME = .9737 B = 354.44
 P60 = 1.8400
 AREA = .000134 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD

ID=85 CODE=10

HYDROGRAPH FROM AREA BASIN.J5

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
15.000	.000	.0	20.000	5.000	.0	10.000	.0
16.000	1.000	.0	21.000	6.000	.0	11.000	.0
17.000	2.000	.8	22.000	7.000	.0	12.000	.0
18.000	3.000	.0	23.000	8.000	.0	13.000	.0
19.000	4.000	.0	24.000	9.000	.0	14.000	.0

RUNOFF VOLUME = 2.26513 INCHES = .1619 ACRE-FEET
 PEAK DISCHARGE RATE = 3.05 CFS AT 1.500 HOURS BASIN AREA = .0013 SQ. MI.

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COMPUTE NM HYD

ID=86 HYD NO=BASIN.J6 DA=.00422 SQ MI

%A=0.0 %B=5.0 %C=5.0 %D=90.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 14.995 CFS UNIT VOLUME = 1.029 B = 526.28
 P60 = 1.8400
 AREA = .003798 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
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AHYMO-N0V13C-Output

CONSTANT, N = 3.989065
 UNIT PEAK = 1.1221 CFS UNIT VOLUME = .9963 B = 354.44
 P60 = 1.8400
 AREA = .000422 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=86 CODE=10

HYDROGRAPH FROM AREA BASIN.J6

TIME	TIME FLOW	FLOW	TIME FLOW	FLOW	TIME FLOW	FLOW
HRS	HRS CFS	CFS	HRS CFS	CFS	HRS CFS	CFS
15.000	.000	.0	20.000	.0	10.000	.1
16.000	1.000	.0	21.000	.0	11.000	.1
17.000	.1	2.5	22.000	.0	12.000	.1
18.000	2.000	.1	23.000	.0	13.000	.1
19.000	.1	.1	24.000	.0	14.000	.1

RUNOFF VOLUME = 2.26512 INCHES = .5098 ACRE-FEET
 PEAK DISCHARGE RATE = 9.59 CFS AT 1.500 HOURS BASIN AREA = .0042 SQ. MI.

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*

COMPUTE NM HYD ID=87 HYD NO=BASIN.J7 DA=.00444 SQ MI

%A=0.0 %B=5.0 %C=5.0 %D=90.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 15.776 CFS UNIT VOLUME = 1.029 B = 526.28
 P60 = 1.8400
 AREA = .003996 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.1806 CFS UNIT VOLUME = .9989 B = 354.44
 P60 = 1.8400
 AREA = .000444 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =

AHYMO-N0V13C-Output

.100000

PRINT HYD

ID=87 CODE=10

HYDROGRAPH FROM AREA BASIN.J7

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
15.000	.000	.0	20.000	5.000	.1	10.000	.1
16.000	1.000	.0	21.000	6.000	.1	11.000	.1
17.000	.1	2.6	22.000	7.000	.1	12.000	.1
18.000	2.000	.1	23.000	8.000	.1	13.000	.1
19.000	3.000	.1	24.000	9.000	.1	14.000	.1
	4.000	.1					
	.1						

RUNOFF VOLUME = 2.26512 INCHES = .5364 ACRE-FEET
 PEAK DISCHARGE RATE = 10.09 CFS AT 1.500 HOURS BASIN AREA =
 .0044 SQ. MI.

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*

COMPUTE NM HYD

ID=88 HYD NO=BASIN.J8 DA=.00903 SQ MI

%A=0.0 %B=70.0 %C=30.0 %D=0.0

TP=-.1333 HR RAIN=-1

K = .123722HR TP = .133300HR K/TP RATIO = .928150 SHAPE
 CONSTANT, N = 3.811914
 UNIT PEAK = 23.197 CFS UNIT VOLUME = 1.003 B = 342.43
 P60 = 1.8400
 AREA = .009030 SQ MI IA = .45500 INCHES INF = 1.12400
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD

ID=88 CODE=10

HYDROGRAPH FROM AREA BASIN.J8

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
3.000	.000	.0	1.000	1.000	.0	2.000	1.0
	.1						

RUNOFF VOLUME = .73726 INCHES = .3551 ACRE-FEET

AHYMO-N0V13C-Output
 PEAK DISCHARGE RATE = 12.31 CFS AT 1.500 HOURS BASIN AREA =
 .0090 SQ. MI.

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COMPUTE NM HYD ID=89 HYD N0=BASIN.J9 DA=.00548 SQ MI

%A=0.0 %B=7.5 %C=7.5 %D=85.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 18.390 CFS UNIT VOLUME = 1.029 B = 526.28
 P60 = 1.8400
 AREA = .004658 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 2.1857 CFS UNIT VOLUME = 1.002 B = 354.44
 P60 = 1.8400
 AREA = .000822 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=89 CODE=10

HYDROGRAPH FROM AREA BASIN.J9

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0	5.000	.1	.1	10.000	.1
15.000	.1	.0	20.000	.1	.1	11.000	.1
16.000	.1	.0	21.000	.1	.1	12.000	.1
17.000	.1	3.1	22.000	.1	.1	13.000	.1
18.000	.1	.2	23.000	.1	.1	14.000	.1
19.000	.1	.1	24.000	.1	.1		

RUNOFF VOLUME = 2.18365 INCHES = .6382 ACRE-FEET
 PEAK DISCHARGE RATE = 12.20 CFS AT 1.500 HOURS BASIN AREA =
 .0055 SQ. MI.

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AHYMO-N0V13C-Output

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COMPUTE NM HYD ID=12 HYD N0=BASIN.J12 DA=.01419 SQ MI

%A=100.0 %B=0.0 %C=0.0 %D=0.0

TP=-.1333 HR RAIN=-1

K = .164440HR TP = .133300HR K/TP RATIO = 1.233609 SHAPE
 CONSTANT, N = 2.887705
 UNIT PEAK = 29.012 CFS UNIT VOLUME = .9838 B = 272.53
 P60 = 1.8400
 AREA = .014190 SQ MI IA = .65000 INCHES INF = 1.67000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=12 CODE=10

HYDROGRAPH FROM AREA BASIN.J12

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
3.000	.000 .1	.0	4.000	1.000 .0	2.000	1.0

RUNOFF VOLUME = .41534 INCHES = .3143 ACRE-FEET
 PEAK DISCHARGE RATE = 10.65 CFS AT 1.500 HOURS BASIN AREA =
 .0142 SQ. MI.

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ADD HYD ID=11 HYD=J10J11.J6 ID I=86 II=10

PRINT HYD ID=11 CODE=10

HYDROGRAPH FROM AREA J10J11.J6

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
18.000	.000 .2	.0	24.000	6.000 .2	12.000	.3
19.000	1.000 .2	.0	25.000	7.000 .0	13.000	.3
20.000	2.000 .2	11.9	8.000	.4	14.000	.3
21.000	3.000 .2	.6	9.000	.3	15.000	.3
	4.000	.3	10.000	.3	16.000	.2

AHYMO-N0V13C-Output

22.000 .2
 5.000 .3 11.000 .3 17.000 .2
 23.000 .2

RUNOFF VOLUME = 2.25428 INCHES = 2.1437 ACRE-FEET
 PEAK DISCHARGE RATE = 38.60 CFS AT 1.500 HOURS BASIN AREA =
 .0178 SQ. MI.

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ADD HYD ID=95 HYD=J10J11J6.J9 ID I=11 II=89

PRINT HYD ID=95 CODE=10

HYDROGRAPH FROM AREA J10J11J6.J9

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	
	.000	.0		6.000	.5	12.000	.4
18.000	.3	.0	24.000	.2	.5	13.000	.4
19.000	.3	.0	25.000	.0	.5	14.000	.3
20.000	.3	15.0	8.000	.5	.5	15.000	.3
21.000	.3	.8	9.000	.4	.4	16.000	.3
22.000	.3	.4	10.000	.4	.4	17.000	.3
23.000	.2	.4	11.000	.4	.4		

RUNOFF VOLUME = 2.23766 INCHES = 2.7818 ACRE-FEET
 PEAK DISCHARGE RATE = 50.80 CFS AT 1.500 HOURS BASIN AREA =
 .0233 SQ. MI.

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ADD HYD ID=90 HYD=J10J11J6J9.J5 ID I=85 II=95

PRINT HYD ID=90 CODE=10

HYDROGRAPH FROM AREA J10J11J6J9.J5

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	
	.000	.0		6.000	.5	12.000	.4
18.000	.3	.0	24.000	.3	.5		

AHYMO-NOV13C-Output

19.000	1.000	.0	25.000	7.000	.5	13.000	.4
	.3			.0			
20.000	2.000	15.8		8.000	.5	14.000	.4
	.3						
21.000	3.000	.8		9.000	.5	15.000	.3
	.3						
22.000	4.000	.4		10.000	.4	16.000	.3
	.3						
23.000	5.000	.4		11.000	.4	17.000	.3
	.3						

RUNOFF VOLUME = 2.23914 INCHES = 2.9437 ACRE-FEET
 PEAK DISCHARGE RATE = 53.86 CFS AT 1.500 HOURS BASIN AREA =
 .0247 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.007

DIA=3.0 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE	FLOW AREA	1.0 FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
1.33	.16	.14	.29	
1.83	.31	.39	1.27	
2.18	.47	.71	2.95	
2.44	.63	1.07	5.31	
2.63	.78	1.46	8.30	
2.78	.94	1.89	11.84	
2.89	1.09	2.33	15.86	
2.96	1.25	2.79	20.27	
2.99	1.41	3.26	24.99	
3.00	1.56	3.72	29.91	
3.00	1.72	4.19	34.92	
3.00	1.88	4.65	39.90	
3.00	2.03	5.10	44.72	
3.00	2.19	5.53	49.23	
3.00	2.35	5.93	53.27	

AHYMO-N0V13C-Output

3.00	2.50	6.30	56.64
3.00	2.66	6.62	59.04
3.00	2.81	6.89	60.03
3.00	3.00	7.07	60.03

ROUTE MCUNGE ID=91 HYD=RTE.J5J6 INFLOW ID=90

DT=0.0 L=350 NS=0 SLOPE=0.007

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

*

PRINT HYD

ID=91 CODE=0

HYDROGRAPH FROM AREA RTE.J5J6

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		5.200	.4	10.400	.4
15.600	.3	.0	20.800	.3	.5	10.500	.4
15.700	.3	.0	20.900	.3	.5	10.600	.4
15.800	.3	.0	21.000	.3	.5	10.700	.4
15.900	.3	.0	21.100	.3	.5	10.800	.4
16.000	.3	.0	21.200	.3	.5	10.900	.4
16.100	.3	.0	21.300	.3	.5	11.000	.4
16.200	.3	.0	21.400	.3	.5	11.100	.4
16.300	.3	.0	21.500	.3	.5	11.200	.4
16.400	.3	.0	21.600	.3	.5	11.300	.4
16.500	.3	.0	21.700	.3	.5	11.400	.4
16.600	.3	.2	21.800	.3	.5	11.500	.4
16.700	.3	.2	21.900	.3	.5	11.600	.4
16.800	.3	2.7	22.000	.3	.5	11.700	.4
16.900	.3	12.9	22.100	.3	.5	11.800	.4
17.000	.3	36.9	22.200	.3	.5	11.900	.4
17.100	.3	53.9	22.300	.3	.5	12.000	.4
17.200	.3	45.9	22.400	.3	.5	12.100	.4
17.300	.3	31.9	22.500	.3			

AHYMO-NOV13C-Output						
	1.800	23.6	7.000	.5	12.200	.4
17.400	.3	22.600	.3			
	1.900	19.1	7.100	.5	12.300	.4
17.500	.3	22.700	.3			
	2.000	15.8	7.200	.5	12.400	.4
17.600	.3	22.800	.3			
	2.100	11.5	7.300	.5	12.500	.4
17.700	.3	22.900	.3			
	2.200	6.7	7.400	.5	12.600	.4
17.800	.3	23.000	.3			
	2.300	4.0	7.500	.5	12.700	.4
17.900	.3	23.100	.3			
	2.400	2.9	7.600	.5	12.800	.4
18.000	.3	23.200	.3			
	2.500	2.2	7.700	.5	12.900	.4
18.100	.3	23.300	.3			
	2.600	1.7	7.800	.5	13.000	.4
18.200	.3	23.400	.3			
	2.700	1.4	7.900	.5	13.100	.4
18.300	.3	23.500	.3			
	2.800	1.1	8.000	.5	13.200	.4
18.400	.3	23.600	.3			
	2.900	.9	8.100	.5	13.300	.4
18.500	.3	23.700	.3			
	3.000	.8	8.200	.5	13.400	.4
18.600	.3	23.800	.3			
	3.100	.7	8.300	.5	13.500	.4
18.700	.3	23.900	.3			
	3.200	.6	8.400	.5	13.600	.4
18.800	.3	24.000	.3			
	3.300	.6	8.500	.5	13.700	.4
18.900	.3	24.100	.2			
	3.400	.5	8.600	.5	13.800	.4
19.000	.3	24.200	.1			
	3.500	.5	8.700	.5	13.900	.4
19.100	.3	24.300	.0			
	3.600	.5	8.800	.5	14.000	.4
19.200	.3	24.400	.0			
	3.700	.5	8.900	.5	14.100	.4
19.300	.3	24.500	.0			
	3.800	.5	9.000	.5	14.200	.4
19.400	.3	24.600	.0			
	3.900	.4	9.100	.5	14.300	.4
19.500	.3	24.700	.0			
	4.000	.4	9.200	.5	14.400	.4
19.600	.3	24.800	.0			
	4.100	.4	9.300	.5	14.500	.4
19.700	.3	24.900	.0			
	4.200	.4	9.400	.5	14.600	.4
19.800	.3	25.000	.0			
	4.300	.4	9.500	.5	14.700	.4
19.900	.3	25.100	.0			
	4.400	.4	9.600	.4	14.800	.3
20.000	.3	25.200	.0			
	4.500	.4	9.700	.4	14.900	.3
20.100	.3	25.300	.0			
	4.600	.4	9.800	.4	15.000	.3
20.200	.3	25.400	.0			
	4.700	.4	9.900	.4	15.100	.3
20.300	.3	25.500	.0			
	4.800	.4	10.000	.4	15.200	.3
20.400	.3	25.600	.0			
	4.900	.4	10.100	.4	15.300	.3

AHYMO-N0V13C-Output

20.500	.3					
20.600	5.000	.4	10.200	.4	15.400	.3
20.700	5.100	.4	10.300	.4	15.500	.3
	.3					

RUNOFF VOLUME = 2.23914 INCHES = 2.9437 ACRE-FEET
 PEAK DISCHARGE RATE = 53.86 CFS AT 1.500 HOURS BASIN AREA =
 .0247 SQ. MI.

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ADD HYD ID=93 HYD=J1.J4 ID I=81 II=84

PRINT HYD ID=93 CODE=10

HYDROGRAPH FROM AREA J1.J4

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		5.000	.2	10.000	.2
15.000	.2		20.000	.1			
	1.000	.0		6.000	.3	11.000	.2
16.000	.2		21.000	.1			
	2.000	7.8		7.000	.3	12.000	.2
17.000	.2		22.000	.1			
	3.000	.4		8.000	.3	13.000	.2
18.000	.2		23.000	.1			
	4.000	.2		9.000	.2	14.000	.2
19.000	.2		24.000	.1			

RUNOFF VOLUME = 2.02065 INCHES = 1.6413 ACRE-FEET
 PEAK DISCHARGE RATE = 32.51 CFS AT 1.500 HOURS BASIN AREA =
 .0152 SQ. MI.

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ADD HYD ID=94 HYD=J1J4.J5J6J9 ID I=91 II=93

PRINT HYD ID=94 CODE=10

HYDROGRAPH FROM AREA J1J4.J5J6J9

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0		6.000	.8	12.000	.6
18.000	.5		24.000	.4			
	1.000	.0		7.000	.8	13.000	.6
19.000	.5		25.000	.0			

AHYMO-NOV13C-Output

20.000	2.000	23.6	8.000	.7	14.000	.5
	.4					
21.000	3.000	1.2	9.000	.7	15.000	.5
	.4					
22.000	4.000	.7	10.000	.7	16.000	.5
	.4					
23.000	5.000	.7	11.000	.6	17.000	.5
	.4					

RUNOFF VOLUME = 2.15570 INCHES = 4.5850 ACRE-FEET
 PEAK DISCHARGE RATE = 86.37 CFS AT 1.500 HOURS BASIN AREA =
 .0399 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.007
 DIA=3.5 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE ELEV	FLOW AREA SQ FT	1.0 FLOW RATE CFS	
.00	.00	.00	.00	FT
1.56	.18	.19	.44	
2.14	.36	.53	1.92	
2.54	.55	.96	4.46	
2.84	.73	1.45	8.01	
3.07	.91	1.99	12.51	
3.25	1.09	2.57	17.85	
3.37	1.28	3.17	23.92	
3.45	1.46	3.80	30.58	
3.49	1.64	4.43	37.70	
3.50	1.82	5.07	45.12	
3.50	2.01	5.70	52.68	
3.50	2.19	6.33	60.19	
3.50	2.37	6.94	67.46	
3.50	2.55	7.52	74.27	
3.50	2.74	8.07	80.36	
3.50	2.92	8.57	85.43	
3.50	3.10	9.01	89.06	

AHYMO-NOV13C-Output

3.50 3.28 9.37 90.55
3.50 3.50 9.62 90.55

ROUTE MCUNGE

ID=92 HYD=RTE.J14569 INFLOW ID=94

DT=0.0 L=650 NS=0 SLOPE=0.007

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

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PRINT HYD

ID=92 CODE=0

HYDROGRAPH FROM AREA RTE.J14569

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
15.600	.000	.0	20.800	.4	10.400	.7
15.700	.100	.0	20.900	.4	10.500	.6
15.800	.200	.0	21.000	.4	10.600	.6
15.900	.300	.0	21.100	.4	10.700	.6
16.000	.400	.0	21.200	.4	10.800	.6
16.100	.500	.0	21.300	.4	10.900	.6
16.200	.600	.0	21.400	.4	11.000	.6
16.300	.700	.0	21.500	.4	11.100	.6
16.400	.800	.0	21.600	.4	11.200	.6
16.500	.900	.0	21.700	.4	11.300	.6
16.600	1.000	.0	21.800	.4	11.400	.6
16.700	1.100	.3	21.900	.4	11.500	.6
16.800	1.200	5.6	22.000	.4	11.600	.6
16.900	1.300	23.8	22.100	.4	11.700	.6
17.000	1.400	66.0	22.200	.4	11.800	.6
17.100	1.500	86.4	22.300	.4	11.900	.6
17.200	1.600	68.4	22.400	.4	12.000	.6
17.300	1.700	47.2	22.500	.4	12.100	.6
17.400	1.800	35.4	22.600	.4	12.200	.6
17.500	1.900	28.5	22.700	.4	12.300	.6

AHYMO-NOV13C-Output						
17.600	2.000	23.6	7.200	.8	12.400	.6
	.5	22.800	.4			
17.700	2.100	16.2	7.300	.8	12.500	.6
	.5	22.900	.4			
17.800	2.200	9.3	7.400	.8	12.600	.6
	.5	23.000	.4			
17.900	2.300	5.9	7.500	.8	12.700	.6
	.5	23.100	.4			
18.000	2.400	4.3	7.600	.8	12.800	.6
	.5	23.200	.4			
18.100	2.500	3.3	7.700	.8	12.900	.6
	.5	23.300	.4			
18.200	2.600	2.6	7.800	.8	13.000	.6
	.5	23.400	.4			
18.300	2.700	2.1	7.900	.8	13.100	.6
	.5	23.500	.4			
18.400	2.800	1.7	8.000	.7	13.200	.6
	.5	23.600	.4			
18.500	2.900	1.4	8.100	.7	13.300	.6
	.5	23.700	.4			
18.600	3.000	1.2	8.200	.7	13.400	.6
	.5	23.800	.4			
18.700	3.100	1.1	8.300	.7	13.500	.6
	.5	23.900	.4			
18.800	3.200	1.0	8.400	.7	13.600	.6
	.5	24.000	.4			
18.900	3.300	.9	8.500	.7	13.700	.6
	.5	24.100	.3			
19.000	3.400	.8	8.600	.7	13.800	.6
	.5	24.200	.1			
19.100	3.500	.8	8.700	.7	13.900	.6
	.5	24.300	.1			
19.200	3.600	.7	8.800	.7	14.000	.5
	.5	24.400	.0			
19.300	3.700	.7	8.900	.7	14.100	.5
	.4	24.500	.0			
19.400	3.800	.7	9.000	.7	14.200	.5
	.4	24.600	.0			
19.500	3.900	.7	9.100	.7	14.300	.5
	.4	24.700	.0			
19.600	4.000	.7	9.200	.7	14.400	.5
	.4	24.800	.0			
19.700	4.100	.7	9.300	.7	14.500	.5
	.4	24.900	.0			
19.800	4.200	.6	9.400	.7	14.600	.5
	.4	25.000	.0			
19.900	4.300	.6	9.500	.7	14.700	.5
	.4	25.100	.0			
20.000	4.400	.6	9.600	.7	14.800	.5
	.4	25.200	.0			
20.100	4.500	.6	9.700	.7	14.900	.5
	.4	25.300	.0			
20.200	4.600	.6	9.800	.7	15.000	.5
	.4	25.400	.0			
20.300	4.700	.6	9.900	.7	15.100	.5
	.4	25.500	.0			
20.400	4.800	.6	10.000	.7	15.200	.5
	.4	25.600	.0			
20.500	4.900	.7	10.100	.7	15.300	.5
	.4					
20.600	5.000	.7	10.200	.7	15.400	.5
	.4					
	5.100	.7	10.300	.7	15.500	.5

AHYMO-N0V13C-Output

20.700 .4

RUNOFF VOLUME = 2.15570 INCHES = 4.5850 ACRE-FEET
 PEAK DISCHARGE RATE = 86.37 CFS AT 1.500 HOURS BASIN AREA =
 .0399 SQ. MI.

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ADD HYD ID=95 HYD=J2.J3 ID I=82 II=83

PRINT HYD ID=95 CODE=10

HYDROGRAPH FROM AREA J2.J3

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0		5.000	.3	10.000	.3
15.000	.3		20.000	.2		11.000	.3
	1.000	.0		6.000	.4		
16.000	.2		21.000	.2		12.000	.3
	2.000	11.3		7.000	.4		
17.000	.2		22.000	.2		13.000	.3
	3.000	.6		8.000	.4		
18.000	.2		23.000	.2		14.000	.3
	4.000	.3		9.000	.3		
19.000	.2		24.000	.2			

RUNOFF VOLUME = 1.96692 INCHES = 2.3981 ACRE-FEET
 PEAK DISCHARGE RATE = 48.10 CFS AT 1.500 HOURS BASIN AREA =
 .0229 SQ. MI.

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ADD HYD ID=94 HYD=J2J3.J7 ID I=95 II=87

PRINT HYD ID=94 CODE=10

HYDROGRAPH FROM AREA J2J3.J7

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0		5.000	.4	10.000	.4
15.000	.3		20.000	.3		11.000	.4
	1.000	.0		6.000	.5		
16.000	.3		21.000	.3		12.000	.4
	2.000	13.9		7.000	.5		
17.000	.3		22.000	.3			

AHYMO-N0V13C-Output

18.000	3.000	.7	23.000	8.000	.5	13.000	.4
	.3			.2			
19.000	4.000	.4	24.000	9.000	.4	14.000	.3
	.3			.2			

RUNOFF VOLUME = 2.01541 INCHES = 2.9344 ACRE-FEET
 PEAK DISCHARGE RATE = 58.19 CFS AT 1.500 HOURS BASIN AREA =
 .0273 SQ. MI.

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ADD HYD ID=96 HYD=J145679.J237 ID I=94 II=92

PRINT HYD ID=96 CODE=10

HYDROGRAPH FROM AREA J145679.J237

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
	.000	.0	6.000	1.3	12.000	1.0	
18.000	.7		24.000	.6	13.000	.9	
19.000	1.000	.0	7.000	1.3	14.000	.9	
	.7		25.000	.0	15.000	.8	
20.000	2.000	37.5	8.000	1.2	16.000	.8	
	.7		9.000	1.1	17.000	.8	
21.000	3.000	2.0	10.000	1.1			
	.7		11.000	1.0			
22.000	4.000	1.1					
	.7						
23.000	5.000	1.1					
	.6						

RUNOFF VOLUME = 2.09869 INCHES = 7.5194 ACRE-FEET
 PEAK DISCHARGE RATE = 144.56 CFS AT 1.500 HOURS BASIN AREA =
 .0672 SQ. MI.

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ADD HYD ID=97 HYD=J11J7.J8 ID I=96 II=88

PRINT HYD ID=97 CODE=10

HYDROGRAPH FROM AREA J11J7.J8

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
	.000	.0	6.000	1.3	12.000	1.0	
18.000	.7		24.000	.6	13.000	.9	
	1.000	.0	7.000	1.3			

AHYMO-NOV13C-Output

19.000	.7	25.000	.0		
20.000	2.000	38.6	8.000	1.2	14.000 .9
21.000	3.000	2.0	9.000	1.1	15.000 .8
22.000	4.000	1.1	10.000	1.1	16.000 .8
23.000	5.000	1.1	11.000	1.0	17.000 .8

RUNOFF VOLUME = 1.93737 INCHES = 7.8745 ACRE-FEET
 PEAK DISCHARGE RATE = 156.87 CFS AT 1.500 HOURS BASIN AREA =
 .0762 SQ. MI.

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ADD HYD ID=98 HYD=J1J8.J12 ID I=97 II=12

PRINT HYD ID=98 CODE=10

HYDROGRAPH FROM AREA J1J8.J12

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		6.000	1.3	12.000	1.0
18.000	.7	.0	24.000	.6			
19.000	1.000	.0	25.000	.0		13.000	.9
20.000	.7	39.5	8.000	1.2		14.000	.9
21.000	3.000	2.1	9.000	1.1		15.000	.8
22.000	.7	1.1	10.000	1.1		16.000	.8
23.000	5.000	1.1	11.000	1.0		17.000	.8

RUNOFF VOLUME = 1.69846 INCHES = 8.1888 ACRE-FEET
 PEAK DISCHARGE RATE = 167.52 CFS AT 1.500 HOURS BASIN AREA =
 .0904 SQ. MI.

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DIVIDE HYD ID=98 Q=26.34 ID I=83 HYD NO=BYPASSJ

ID II=84 HYD NO=SURGEJ

PRINT HYD ID=83 CODE=10

AHYMO-N0V13C-Output

HYDROGRAPH FROM AREA BYPASSJ

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		6.000	1.3	12.000	1.0
18.000	.7		24.000	.6			
	1.000	.0		7.000	1.3	13.000	.9
19.000	.7		25.000	.0			
	2.000	26.3		8.000	1.2	14.000	.9
20.000	.7						
	3.000	2.1		9.000	1.1	15.000	.8
21.000	.7						
	4.000	1.1		10.000	1.1	16.000	.8
22.000	.7						
	5.000	1.1		11.000	1.0	17.000	.8
23.000	.6						

RUNOFF VOLUME = 1.69846 INCHES = 4.1292 ACRE-Feet
 PEAK DISCHARGE RATE = 26.34 CFS AT 1.300 HOURS BASIN AREA =
 .0456 SQ. MI.

PRINT HYD

ID=84 CODE=10

HYDROGRAPH FROM AREA SURGEJ

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		1.000	.0	2.000	13.2

RUNOFF VOLUME = 1.69846 INCHES = 4.0596 ACRE-Feet
 PEAK DISCHARGE RATE = 141.18 CFS AT 1.500 HOURS BASIN AREA =
 .0448 SQ. MI.

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ROUTE RESERVOIR

ID=90 HYD=POND.J INFLOW ID=84 CODE=10

OUTFLOW	STORAGE	DEPTH
0	0	5414
3.82 1.96		5415
7.20 4.70		5416
10.28 7.94		5417

AHYMO-NOV13C-Output
100.0 11.56

5418

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5414.00	.000	.00
1.00	.00	5414.00	.000	.00
2.00	13.21	5415.66	3.767	6.05
3.00	.00	5415.50	3.341	5.52
4.00	.00	5415.35	2.907	4.99
5.00	.00	5415.20	2.515	4.50
6.00	.00	5415.07	2.161	4.07
7.00	.00	5414.94	1.843	3.59
8.00	.00	5414.80	1.569	3.06
9.00	.00	5414.68	1.335	2.60
10.00	.00	5414.58	1.137	2.22
11.00	.00	5414.49	.968	1.89
12.00	.00	5414.42	.824	1.61
13.00	.00	5414.36	.701	1.37
14.00	.00	5414.30	.597	1.16
15.00	.00	5414.26	.508	.99
16.00	.00	5414.22	.432	.84
17.00	.00	5414.19	.368	.72
18.00	.00	5414.16	.313	.61
19.00	.00	5414.14	.267	.52
20.00	.00	5414.12	.227	.44
21.00	.00	5414.10	.193	.38
22.00	.00	5414.08	.165	.32
23.00	.00	5414.07	.140	.27
24.00	.00	5414.06	.119	.23
25.00	.00	5414.05	.101	.20
26.00	.00	5414.04	.086	.17
27.00	.00	5414.04	.074	.14
28.00	.00	5414.03	.063	.12
29.00	.00	5414.03	.053	.10
30.00	.00	5414.02	.045	.09
31.00	.00	5414.02	.039	.08
32.00	.00	5414.02	.033	.06
33.00	.00	5414.01	.028	.05
34.00	.00	5414.01	.024	.05
35.00	.00	5414.01	.020	.04
36.00	.00	5414.01	.017	.03
37.00	.00	5414.01	.015	.03
38.00	.00	5414.01	.012	.02
39.00	.00	5414.01	.011	.02
40.00	.00	5414.00	.009	.02
41.00	.00	5414.00	.008	.02
42.00	.00	5414.00	.007	.01
43.00	.00	5414.00	.006	.01
44.00	.00	5414.00	.005	.01
45.00	.00	5414.00	.004	.01
46.00	.00	5414.00	.003	.01
47.00	.00	5414.00	.003	.01
48.00	.00	5414.00	.002	.00
PEAK DISCHARGE = 6.055 CFS - PEAK OCCURS AT HOUR 2.10				
MAXIMUM WATER SURFACE ELEVATION = 5415.661				
MAXIMUM STORAGE = 3.7714 AC-FT INCREMENTAL TIME= .100000HRS				

*

PRINT HYD

AHYMO-N0V13C-Output
ID=90 CODE=0

HYDROGRAPH FROM AREA POND.J

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	FLOW CFS
HRS			HRS			HRS	
	.000	.0		11.600	1.7	23.200	.3
34.800	.0		46.400	.0			
	.100	.0		11.700	1.7	23.300	.3
34.900	.0		46.500	.0			
	.200	.0		11.800	1.7	23.400	.3
35.000	.0		46.600	.0			
	.300	.0		11.900	1.6	23.500	.3
35.100	.0		46.700	.0			
	.400	.0		12.000	1.6	23.600	.2
35.200	.0		46.800	.0			
	.500	.0		12.100	1.6	23.700	.2
35.300	.0		46.900	.0			
	.600	.0		12.200	1.6	23.800	.2
35.400	.0		47.000	.0			
	.700	.0		12.300	1.5	23.900	.2
35.500	.0		47.100	.0			
	.800	.0		12.400	1.5	24.000	.2
35.600	.0		47.200	.0			
	.900	.0		12.500	1.5	24.100	.2
35.700	.0		47.300	.0			
	1.000	.0		12.600	1.5	24.200	.2
35.800	.0		47.400	.0			
	1.100	.0		12.700	1.4	24.300	.2
35.900	.0		47.500	.0			
	1.200	.0		12.800	1.4	24.400	.2
36.000	.0		47.600	.0			
	1.300	.1		12.900	1.4	24.500	.2
36.100	.0		47.700	.0			
	1.400	1.1		13.000	1.4	24.600	.2
36.200	.0		47.800	.0			
	1.500	3.1		13.100	1.3	24.700	.2
36.300	.0		47.900	.0			
	1.600	4.5		13.200	1.3	24.800	.2
36.400	.0		48.000	.0			
	1.700	5.3		13.300	1.3	24.900	.2
36.500	.0		48.100	.0			
	1.800	5.7		13.400	1.3	25.000	.2
36.600	.0		48.200	.0			
	1.900	5.9		13.500	1.3	25.100	.2
36.700	.0		48.300	.0			
	2.000	6.0		13.600	1.2	25.200	.2
36.800	.0		48.400	.0			
	2.100	6.1		13.700	1.2	25.300	.2
36.900	.0		48.500	.0			
	2.200	6.0		13.800	1.2	25.400	.2
37.000	.0		48.600	.0			
	2.300	5.9		13.900	1.2	25.500	.2
37.100	.0		48.700	.0			
	2.400	5.9		14.000	1.2	25.600	.2
37.200	.0		48.800	.0			
	2.500	5.8		14.100	1.1	25.700	.2
37.300	.0		48.900	.0			
	2.600	5.8		14.200	1.1	25.800	.2

AHYMO-NOV13C-Output

37.400	.0	49.000	.0			
	2.700	5.7	14.300	1.1	25.900	.2
37.500	.0	49.100	.0			
	2.800	5.6	14.400	1.1	26.000	.2
37.600	.0	49.200	.0			
	2.900	5.6	14.500	1.1	26.100	.2
37.700	.0	49.300	.0			
	3.000	5.5	14.600	1.1	26.200	.2
37.800	.0	49.400	.0			
	3.100	5.5	14.700	1.0	26.300	.2
37.900	.0	49.500	.0			
	3.200	5.4	14.800	1.0	26.400	.2
38.000	.0	49.600	.0			
	3.300	5.4	14.900	1.0	26.500	.2
38.100	.0	49.700	.0			
	3.400	5.3	15.000	1.0	26.600	.2
38.200	.0	49.800	.0			
	3.500	5.2	15.100	1.0	26.700	.2
38.300	.0	49.900	.0			
	3.600	5.2	15.200	1.0	26.800	.1
38.400	.0	50.000	.0			
	3.700	5.1	15.300	.9	26.900	.1
38.500	.0	50.100	.0			
	3.800	5.1	15.400	.9	27.000	.1
38.600	.0	50.200	.0			
	3.900	5.0	15.500	.9	27.100	.1
38.700	.0	50.300	.0			
	4.000	5.0	15.600	.9	27.200	.1
38.800	.0	50.400	.0			
	4.100	4.9	15.700	.9	27.300	.1
38.900	.0	50.500	.0			
	4.200	4.9	15.800	.9	27.400	.1
39.000	.0	50.600	.0			
	4.300	4.8	15.900	.9	27.500	.1
39.100	.0	50.700	.0			
	4.400	4.8	16.000	.8	27.600	.1
39.200	.0	50.800	.0			
	4.500	4.7	16.100	.8	27.700	.1
39.300	.0	50.900	.0			
	4.600	4.7	16.200	.8	27.800	.1
39.400	.0	51.000	.0			
	4.700	4.6	16.300	.8	27.900	.1
39.500	.0	51.100	.0			
	4.800	4.6	16.400	.8	28.000	.1
39.600	.0	51.200	.0			
	4.900	4.6	16.500	.8	28.100	.1
39.700	.0	51.300	.0			
	5.000	4.5	16.600	.8	28.200	.1
39.800	.0	51.400	.0			
	5.100	4.5	16.700	.8	28.300	.1
39.900	.0	51.500	.0			
	5.200	4.4	16.800	.7	28.400	.1
40.000	.0	51.600	.0			
	5.300	4.4	16.900	.7	28.500	.1
40.100	.0	51.700	.0			
	5.400	4.3	17.000	.7	28.600	.1
40.200	.0	51.800	.0			
	5.500	4.3	17.100	.7	28.700	.1
40.300	.0	51.900	.0			
	5.600	4.2	17.200	.7	28.800	.1
40.400	.0	52.000	.0			
	5.700	4.2	17.300	.7	28.900	.1
40.500	.0	52.100	.0			

AHYMO-NOV13C-Output						
	5.800	4.2	17.400	.7	29.000	.1
40.600	.0	52.200	.0			
	5.900	4.1	17.500	.7	29.100	.1
40.700	.0	52.300	.0			
	6.000	4.1	17.600	.7	29.200	.1
40.800	.0	52.400	.0			
	6.100	4.0	17.700	.6	29.300	.1
40.900	.0	52.500	.0			
	6.200	4.0	17.800	.6	29.400	.1
41.000	.0	52.600	.0			
	6.300	3.9	17.900	.6	29.500	.1
41.100	.0	52.700	.0			
	6.400	3.9	18.000	.6	29.600	.1
41.200	.0	52.800	.0			
	6.500	3.9	18.100	.6	29.700	.1
41.300	.0	52.900	.0			
	6.600	3.8	18.200	.6	29.800	.1
41.400	.0	53.000	.0			
	6.700	3.8	18.300	.6	29.900	.1
41.500	.0	53.100	.0			
	6.800	3.7	18.400	.6	30.000	.1
41.600	.0	53.200	.0			
	6.900	3.7	18.500	.6	30.100	.1
41.700	.0	53.300	.0			
	7.000	3.6	18.600	.6	30.200	.1
41.800	.0	53.400	.0			
	7.100	3.5	18.700	.5	30.300	.1
41.900	.0	53.500	.0			
	7.200	3.5	18.800	.5	30.400	.1
42.000	.0	53.600	.0			
	7.300	3.4	18.900	.5	30.500	.1
42.100	.0	53.700	.0			
	7.400	3.4	19.000	.5	30.600	.1
42.200	.0	53.800	.0			
	7.500	3.3	19.100	.5	30.700	.1
42.300	.0	53.900	.0			
	7.600	3.3	19.200	.5	30.800	.1
42.400	.0	54.000	.0			
	7.700	3.2	19.300	.5	30.900	.1
42.500	.0	54.100	.0			
	7.800	3.2	19.400	.5	31.000	.1
42.600	.0	54.200	.0			
	7.900	3.1	19.500	.5	31.100	.1
42.700	.0	54.300	.0			
	8.000	3.1	19.600	.5	31.200	.1
42.800	.0	54.400	.0			
	8.100	3.0	19.700	.5	31.300	.1
42.900	.0	54.500	.0			
	8.200	3.0	19.800	.5	31.400	.1
43.000	.0	54.600	.0			
	8.300	2.9	19.900	.4	31.500	.1
43.100	.0	54.700	.0			
	8.400	2.9	20.000	.4	31.600	.1
43.200	.0	54.800	.0			
	8.500	2.8	20.100	.4	31.700	.1
43.300	.0	54.900	.0			
	8.600	2.8	20.200	.4	31.800	.1
43.400	.0	55.000	.0			
	8.700	2.7	20.300	.4	31.900	.1
43.500	.0	55.100	.0			
	8.800	2.7	20.400	.4	32.000	.1
43.600	.0	55.200	.0			
	8.900	2.6	20.500	.4	32.100	.1

AHYMO-NOV13C-Output

43.700	.0	55.300	.0			
	9.000	2.6	20.600	.4	32.200	.1
43.800	.0	55.400	.0			
	9.100	2.6	20.700	.4	32.300	.1
43.900	.0	55.500	.0			
	9.200	2.5	20.800	.4	32.400	.1
44.000	.0	55.600	.0			
	9.300	2.5	20.900	.4	32.500	.1
44.100	.0	55.700	.0			
	9.400	2.4	21.000	.4	32.600	.1
44.200	.0	55.800	.0			
	9.500	2.4	21.100	.4	32.700	.1
44.300	.0	55.900	.0			
	9.600	2.4	21.200	.4	32.800	.1
44.400	.0	56.000	.0			
	9.700	2.3	21.300	.4	32.900	.1
44.500	.0	56.100	.0			
	9.800	2.3	21.400	.4	33.000	.1
44.600	.0	56.200	.0			
	9.900	2.3	21.500	.3	33.100	.1
44.700	.0	56.300	.0			
	10.000	2.2	21.600	.3	33.200	.1
44.800	.0	56.400	.0			
	10.100	2.2	21.700	.3	33.300	.1
44.900	.0	56.500	.0			
	10.200	2.1	21.800	.3	33.400	.1
45.000	.0	56.600	.0			
	10.300	2.1	21.900	.3	33.500	.1
45.100	.0	56.700	.0			
	10.400	2.1	22.000	.3	33.600	.0
45.200	.0	56.800	.0			
	10.500	2.0	22.100	.3	33.700	.0
45.300	.0	56.900	.0			
	10.600	2.0	22.200	.3	33.800	.0
45.400	.0	57.000	.0			
	10.700	2.0	22.300	.3	33.900	.0
45.500	.0	57.100	.0			
	10.800	1.9	22.400	.3	34.000	.0
45.600	.0	57.200	.0			
	10.900	1.9	22.500	.3	34.100	.0
45.700	.0	57.300	.0			
	11.000	1.9	22.600	.3	34.200	.0
45.800	.0	57.400	.0			
	11.100	1.9	22.700	.3	34.300	.0
45.900	.0	57.500	.0			
	11.200	1.8	22.800	.3	34.400	.0
46.000	.0	57.600	.0			
	11.300	1.8	22.900	.3	34.500	.0
46.100	.0	57.700	.0			
	11.400	1.8	23.000	.3	34.600	.0
46.200	.0	57.800	.0			
	11.500	1.7	23.100	.3	34.700	.0
46.300	.0					

RUNOFF VOLUME = 1.69831 INCHES = 4.0592 ACRE-Feet
 PEAK DISCHARGE RATE = 6.05 CFS AT 2.100 HOURS BASIN AREA =
 .0448 SQ. MI.

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AHYMO-N0V13C-Output

ADD HYD

ID=97 HYD=BYPASS.SURGEPONDJ ID I=90 II=83

PRINT HYD

ID=97 CODE=10

HYDROGRAPH FROM AREA BYPASS.SURGEPONDJ

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
36.000	.000	.0	48.000	12.000	2.6	24.000	.9
37.000	1.000	.0	49.000	13.000	2.3	25.000	.2
38.000	.0	32.4	50.000	14.000	2.0	26.000	.2
39.000	2.000	7.7	51.000	15.000	1.8	27.000	.1
40.000	.0	6.1	52.000	16.000	1.7	28.000	.1
41.000	3.000	5.6	53.000	17.000	1.5	29.000	.1
42.000	.0	5.3	54.000	18.000	1.4	30.000	.1
43.000	4.000	4.9	55.000	19.000	1.2	31.000	.1
44.000	.0	4.3	56.000	20.000	1.1	32.000	.1
45.000	5.000	3.7	57.000	21.000	1.1	33.000	.1
46.000	.0	3.3	22.000	22.000	1.0	34.000	.0
47.000	10.000	2.9	23.000	23.000	.9	35.000	.0
	11.000						
	.0						

RUNOFF VOLUME = 1.69835 INCHES = 8.1883 ACRE-FEET
 PEAK DISCHARGE RATE = 32.39 CFS AT 2.000 HOURS BASIN AREA =
 .0904 SQ. MI.

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*

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.007

DIA=4.0 N=0.013

WIDTH	RATING CURVE WATER SURFACE ELEV	PIPE SECTION FLOW AREA SQ FT	1.0 FLOW RATE CFS	MAX FT
.00	.00	.00	.00	
1.78	.21	.25	.63	
	.42	.69	2.74	

AHYMO-N0V13C-Output

2.44			
	.63	1.25	6.36
2.91			
	.83	1.90	11.44
3.25			
	1.04	2.60	17.87
3.51			
	1.25	3.36	25.49
3.71			
	1.46	4.15	34.15
3.85			
	1.67	4.96	43.66
3.94			
	1.88	5.79	53.83
3.99			
	2.08	6.62	64.42
4.00			
	2.29	7.45	75.21
4.00			
	2.50	8.27	85.93
4.00			
	2.71	9.06	96.31
4.00			
	2.92	9.82	106.03
4.00			
	3.13	10.54	114.73
4.00			
	3.34	11.20	121.97
4.00			
	3.54	11.77	127.15
4.00			
	3.75	12.24	129.28
4.00			
	4.00	12.57	129.28
4.00			

ROUTE MCUNGE

ID=91 HYD=RTE.J5J6 INFLOW ID=97

DT=0.0 L=1100 NS=0 SLOPE=0.007

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 579

DT= .100000

WIDTH MED=

3.44

TABLE PTS= 19

QMED=

16.19

NREACH= 1

CKMED=

9.0998

DX=

1100.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.165	.0	3.06	1.19	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.21	.2	.6	.121	1.8	4.15	2.52	1.359	.011	.991
.156	-.147	.1	.999	.025	-.023					
	.42	.7	2.7	.078	2.4	5.73	3.94	1.876	.025	.983
.311	-.293	1.5	.985	.223	-.208					
	.63	1.3	6.4	.060	2.9	7.26	5.07	2.375	.039	.977
.414	-.391	4.4	.979	.366	-.346					
	.83	1.9	11.4	.051	3.2	8.54	6.03	2.795	.054	.972
.480	-.453	8.8	.974	.450	-.424					
	1.04	2.6	17.9	.045	3.5	9.64	6.86	3.154	.069	.968
.526	-.494	14.5	.970	.505	-.475					
	1.25	3.4	25.5	.040	3.7	10.57	7.59	3.458	.084	.963

AHYMO-NOV13C-Output

.560	-.523	21.6	.965	.545	-.510					
	1.46	4.1	34.2	.037	3.9	11.35	8.24	3.714	.101	.958
.585	-.543	29.7	.960	.574	-.534					
	1.67	5.0	43.7	.035	3.9	11.99	8.80	3.924	.120	.952
.603	-.556	38.8	.955	.595	-.551					
	1.88	5.8	53.8	.033	4.0	12.49	9.30	4.089	.140	.946
.618	-.564	48.7	.950	.612	-.561					
	2.08	6.6	64.4	.031	4.0	12.84	9.73	4.203	.163	.939
.627	-.567	59.1	.943	.624	-.567					
	2.29	7.5	75.2	.030	4.0	12.93	10.09	4.230	.189	.930
.631	-.561	69.8	.935	.630	-.566					
	2.50	8.3	85.9	.029	4.0	12.68	10.39	4.151	.220	.918
.628	-.546	80.5	.925	.631	-.555					
	2.71	9.1	96.3	.029	4.0	12.08	10.63	3.955	.259	.901
.616	-.517	91.1	.911	.624	-.534					
	2.92	9.8	106.0	.028	4.0	11.08	10.79	3.625	.311	.874
.595	-.469	101.2	.889	.608	-.497					
	3.13	10.5	114.7	.028	4.0	9.58	10.89	3.136	.389	.828
.558	-.386	110.4	.856	.580	-.435					
	3.34	11.2	122.0	.028	4.0	7.46	10.90	2.442	.531	.733
.497	-.229	118.4	.793	.533	-.326					
	3.54	11.8	127.2	.028	4.0	4.37	10.80	1.430	.945	.440
.407	.152	124.6	.646	.457	-.104					
	3.75	12.2	129.3	.029	4.0	2.49	10.56	.815	1.685	.037
.429	.534	128.2	.059	.423	.518					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 5 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.1868

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.165	.0	3.06	1.19	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.21	.2	.6	.121	1.8	3.10	2.52	1.015	.015	.985
.015	.000	.1	.995	.005	.000					
	.42	.7	2.7	.078	2.4	3.19	3.94	1.046	.046	.956
.044	.000	1.5	.971	.029	.000					
	.63	1.3	6.4	.060	2.9	3.32	5.07	1.086	.086	.921
.079	.000	4.4	.939	.061	.000					
	.83	1.9	11.4	.051	3.2	3.46	6.03	1.132	.132	.883
.117	.000	8.8	.902	.098	.000					
	1.04	2.6	17.9	.045	3.5	3.61	6.86	1.183	.183	.845
.155	.000	14.5	.864	.136	.000					
	1.25	3.4	25.5	.040	3.7	3.78	7.59	1.236	.236	.809
.191	.000	21.6	.827	.173	.000					
	1.46	4.1	34.2	.037	3.9	3.95	8.24	1.292	.292	.774
.226	.000	29.7	.791	.209	.000					
	1.67	5.0	43.7	.035	3.9	4.12	8.80	1.349	.349	.741
.259	.000	38.8	.757	.243	.000					
	1.88	5.8	53.8	.033	4.0	4.30	9.30	1.407	.407	.711
.289	.000	48.7	.726	.274	.000					
	2.08	6.6	64.4	.031	4.0	4.48	9.73	1.467	.467	.682
.318	.000	59.1	.696	.304	.000					
	2.29	7.5	75.2	.030	4.0	4.66	10.09	1.524	.524	.656
.344	.000	69.8	.669	.331	.000					
	2.50	8.3	85.9	.029	4.0	4.82	10.39	1.578	.578	.634
.366	.000	80.5	.645	.355	.000					
	2.71	9.1	96.3	.029	4.0	4.98	10.63	1.628	.628	.614
.386	.000	91.1	.624	.376	.000					
	2.92	9.8	106.0	.028	4.0	5.11	10.79	1.673	.673	.598
.402	.000	101.2	.606	.394	.000					
	3.13	10.5	114.7	.028	4.0	5.23	10.89	1.712	.712	.584
.416	.000	110.4	.591	.409	.000					

AHYMO-NOV13C-Output

	3.34	11.2	122.0	.028	4.0	5.33	10.90	1.743	.743	.574
.426	.000	118.4	.579	.421	.000					
	3.54	11.8	127.2	.028	4.0	4.37	10.80	1.430	.945	.440
.407	.152	124.6	.570	.430	.000					
	3.75	12.2	129.3	.029	4.0	2.49	10.56	.815	1.685	.037
.429	.534	128.2	.059	.423	.518					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 3 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.0543

Equations solved with two passes: first using the Ponce correction to C1,
 second using the Fread correction to C1, C2 and C3

PRINT HYD

ID=91 CODE=0

HYDROGRAPH FROM AREA RTE.J5J6

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS	TIME FLOW HRS CFS	FLOW CFS
	.000	.0	11.600	2.7	23.200	.9
34.800	.0	46.400	.0			
	.100	.0	11.700	2.7	23.300	.9
34.900	.0	46.500	.0			
	.200	.0	11.800	2.7	23.400	.9
35.000	.0	46.600	.0			
	.300	.0	11.900	2.6	23.500	.9
35.100	.0	46.700	.0			
	.400	.0	12.000	2.6	23.600	.9
35.200	.0	46.800	.0			
	.500	.0	12.100	2.6	23.700	.9
35.300	.0	46.900	.0			
	.600	.0	12.200	2.5	23.800	.9
35.400	.0	47.000	.0			
	.700	.0	12.300	2.5	23.900	.9
35.500	.0	47.100	.0			
	.800	.0	12.400	2.5	24.000	.9
35.600	.0	47.200	.0			
	.900	.0	12.500	2.4	24.100	.9
35.700	.0	47.300	.0			
	1.000	.0	12.600	2.4	24.200	.6
35.800	.0	47.400	.0			
	1.100	.0	12.700	2.4	24.300	.4
35.900	.0	47.500	.0			
	1.200	1.2	12.800	2.4	24.400	.3
36.000	.0	47.600	.0			
	1.300	12.7	12.900	2.3	24.500	.3
36.100	.0	47.700	.0			
	1.400	26.7	13.000	2.3	24.600	.2
36.200	.0	47.800	.0			
	1.500	27.9	13.100	2.3	24.700	.2
36.300	.0	47.900	.0			
	1.600	29.7	13.200	2.3	24.800	.2
36.400	.0	48.000	.0			
	1.700	31.0	13.300	2.2	24.900	.2
36.500	.0	48.100	.0			
	1.800	31.7	13.400	2.2	25.000	.2
36.600	.0	48.200	.0			
	1.900	32.1	13.500	2.2	25.100	.2
36.700	.0	48.300	.0			
	2.000	32.3	13.600	2.2	25.200	.2

AHYMO-NOV13C-Output

36.800	.0	48.400	.0			
	2.100	32.3	13.700	2.1	25.300	.2
36.900	.0	48.500	.0			
	2.200	29.9	13.800	2.1	25.400	.2
37.000	.0	48.600	.0			
	2.300	20.3	13.900	2.1	25.500	.2
37.100	.0	48.700	.0			
	2.400	15.7	14.000	2.1	25.600	.2
37.200	.0	48.800	.0			
	2.500	13.2	14.100	2.0	25.700	.2
37.300	.0	48.900	.0			
	2.600	11.5	14.200	2.0	25.800	.2
37.400	.0	49.000	.0			
	2.700	10.2	14.300	2.0	25.900	.2
37.500	.0	49.100	.0			
	2.800	9.3	14.400	2.0	26.000	.2
37.600	.0	49.200	.0			
	2.900	8.6	14.500	2.0	26.100	.2
37.700	.0	49.300	.0			
	3.000	8.1	14.600	1.9	26.200	.2
37.800	.0	49.400	.0			
	3.100	7.6	14.700	1.9	26.300	.2
37.900	.0	49.500	.0			
	3.200	7.3	14.800	1.9	26.400	.2
38.000	.0	49.600	.0			
	3.300	7.1	14.900	1.9	26.500	.2
38.100	.0	49.700	.0			
	3.400	6.9	15.000	1.9	26.600	.2
38.200	.0	49.800	.0			
	3.500	6.7	15.100	1.8	26.700	.2
38.300	.0	49.900	.0			
	3.600	6.6	15.200	1.8	26.800	.2
38.400	.0	50.000	.0			
	3.700	6.4	15.300	1.8	26.900	.1
38.500	.0	50.100	.0			
	3.800	6.3	15.400	1.8	27.000	.1
38.600	.0	50.200	.0			
	3.900	6.2	15.500	1.8	27.100	.1
38.700	.0	50.300	.0			
	4.000	6.1	15.600	1.7	27.200	.1
38.800	.0	50.400	.0			
	4.100	6.1	15.700	1.7	27.300	.1
38.900	.0	50.500	.0			
	4.200	6.0	15.800	1.7	27.400	.1
39.000	.0	50.600	.0			
	4.300	5.9	15.900	1.7	27.500	.1
39.100	.0	50.700	.0			
	4.400	5.9	16.000	1.7	27.600	.1
39.200	.0	50.800	.0			
	4.500	5.8	16.100	1.7	27.700	.1
39.300	.0	50.900	.0			
	4.600	5.8	16.200	1.6	27.800	.1
39.400	.0	51.000	.0			
	4.700	5.7	16.300	1.6	27.900	.1
39.500	.0	51.100	.0			
	4.800	5.7	16.400	1.6	28.000	.1
39.600	.0	51.200	.0			
	4.900	5.6	16.500	1.6	28.100	.1
39.700	.0	51.300	.0			
	5.000	5.6	16.600	1.6	28.200	.1
39.800	.0	51.400	.0			
	5.100	5.6	16.700	1.6	28.300	.1
39.900	.0	51.500	.0			

	AHYMO-NOV13C-Output					
	5.200	5.5	16.800	1.5	28.400	.1
40.000	.0	51.600	.0			
	5.300	5.5	16.900	1.5	28.500	.1
40.100	.0	51.700	.0			
	5.400	5.5	17.000	1.5	28.600	.1
40.200	.0	51.800	.0			
	5.500	5.4	17.100	1.5	28.700	.1
40.300	.0	51.900	.0			
	5.600	5.4	17.200	1.5	28.800	.1
40.400	.0	52.000	.0			
	5.700	5.4	17.300	1.5	28.900	.1
40.500	.0	52.100	.0			
	5.800	5.4	17.400	1.5	29.000	.1
40.600	.0	52.200	.0			
	5.900	5.4	17.500	1.4	29.100	.1
40.700	.0	52.300	.0			
	6.000	5.3	17.600	1.4	29.200	.1
40.800	.0	52.400	.0			
	6.100	5.3	17.700	1.4	29.300	.1
40.900	.0	52.500	.0			
	6.200	5.3	17.800	1.4	29.400	.1
41.000	.0	52.600	.0			
	6.300	5.3	17.900	1.4	29.500	.1
41.100	.0	52.700	.0			
	6.400	5.3	18.000	1.4	29.600	.1
41.200	.0	52.800	.0			
	6.500	5.2	18.100	1.4	29.700	.1
41.300	.0	52.900	.0			
	6.600	5.2	18.200	1.4	29.800	.1
41.400	.0	53.000	.0			
	6.700	5.1	18.300	1.3	29.900	.1
41.500	.0	53.100	.0			
	6.800	5.1	18.400	1.3	30.000	.1
41.600	.0	53.200	.0			
	6.900	5.0	18.500	1.3	30.100	.1
41.700	.0	53.300	.0			
	7.000	4.9	18.600	1.3	30.200	.1
41.800	.0	53.400	.0			
	7.100	4.9	18.700	1.3	30.300	.1
41.900	.0	53.500	.0			
	7.200	4.8	18.800	1.3	30.400	.1
42.000	.0	53.600	.0			
	7.300	4.7	18.900	1.3	30.500	.1
42.100	.0	53.700	.0			
	7.400	4.7	19.000	1.3	30.600	.1
42.200	.0	53.800	.0			
	7.500	4.6	19.100	1.2	30.700	.1
42.300	.0	53.900	.0			
	7.600	4.5	19.200	1.2	30.800	.1
42.400	.0	54.000	.0			
	7.700	4.5	19.300	1.2	30.900	.1
42.500	.0	54.100	.0			
	7.800	4.4	19.400	1.2	31.000	.1
42.600	.0	54.200	.0			
	7.900	4.4	19.500	1.2	31.100	.1
42.700	.0	54.300	.0			
	8.000	4.3	19.600	1.2	31.200	.1
42.800	.0	54.400	.0			
	8.100	4.3	19.700	1.2	31.300	.1
42.900	.0	54.500	.0			
	8.200	4.2	19.800	1.2	31.400	.1
43.000	.0	54.600	.0			
	8.300	4.1	19.900	1.2	31.500	.1

AHYMO-NOV13C-Output

43.100	.0	54.700	.0			
	8.400	4.1	20.000	1.2	31.600	.1
43.200	.0	54.800	.0			
	8.500	4.0	20.100	1.1	31.700	.1
43.300	.0	54.900	.0			
	8.600	4.0	20.200	1.1	31.800	.1
43.400	.0	55.000	.0			
	8.700	3.9	20.300	1.1	31.900	.1
43.500	.0	55.100	.0			
	8.800	3.9	20.400	1.1	32.000	.1
43.600	.0	55.200	.0			
	8.900	3.8	20.500	1.1	32.100	.1
43.700	.0	55.300	.0			
	9.000	3.8	20.600	1.1	32.200	.1
43.800	.0	55.400	.0			
	9.100	3.7	20.700	1.1	32.300	.1
43.900	.0	55.500	.0			
	9.200	3.7	20.800	1.1	32.400	.1
44.000	.0	55.600	.0			
	9.300	3.6	20.900	1.1	32.500	.1
44.100	.0	55.700	.0			
	9.400	3.6	21.000	1.1	32.600	.1
44.200	.0	55.800	.0			
	9.500	3.5	21.100	1.1	32.700	.1
44.300	.0	55.900	.0			
	9.600	3.5	21.200	1.0	32.800	.1
44.400	.0	56.000	.0			
	9.700	3.5	21.300	1.0	32.900	.1
44.500	.0	56.100	.0			
	9.800	3.4	21.400	1.0	33.000	.1
44.600	.0	56.200	.0			
	9.900	3.4	21.500	1.0	33.100	.1
44.700	.0	56.300	.0			
	10.000	3.3	21.600	1.0	33.200	.1
44.800	.0	56.400	.0			
	10.100	3.3	21.700	1.0	33.300	.1
44.900	.0	56.500	.0			
	10.200	3.2	21.800	1.0	33.400	.1
45.000	.0	56.600	.0			
	10.300	3.2	21.900	1.0	33.500	.1
45.100	.0	56.700	.0			
	10.400	3.2	22.000	1.0	33.600	.1
45.200	.0	56.800	.0			
	10.500	3.1	22.100	1.0	33.700	.0
45.300	.0	56.900	.0			
	10.600	3.1	22.200	1.0	33.800	.0
45.400	.0	57.000	.0			
	10.700	3.0	22.300	1.0	33.900	.0
45.500	.0	57.100	.0			
	10.800	3.0	22.400	1.0	34.000	.0
45.600	.0	57.200	.0			
	10.900	3.0	22.500	.9	34.100	.0
45.700	.0	57.300	.0			
	11.000	2.9	22.600	.9	34.200	.0
45.800	.0	57.400	.0			
	11.100	2.9	22.700	.9	34.300	.0
45.900	.0	57.500	.0			
	11.200	2.9	22.800	.9	34.400	.0
46.000	.0	57.600	.0			
	11.300	2.8	22.900	.9	34.500	.0
46.100	.0	57.700	.0			
	11.400	2.8	23.000	.9	34.600	.0
46.200	.0	57.800	.0			

AHYMO-NOV13C-Output
 46.300 11.500 2.8 23.100 .9 34.700 .0
 .0 57.900 .0

RUNOFF VOLUME = 1.69667 INCHES = 8.1801 ACRE-FEET
 PEAK DISCHARGE RATE = 32.34 CFS AT 2.100 HOURS BASIN AREA =
 .0904 SQ. MI.

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*****TAOS*****

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COMPUTE NM HYD ID=30 HYD NO=BASIN.K5 DA=.02364 SQ MI

%A=0.0 %B=19.0 %C=19.0 %D=62.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 57.866 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .014657 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 23.886 CFS UNIT VOLUME = 1.007 B = 354.44
 P60 = 1.8400
 AREA = .008983 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=30 CODE=10

HYDROGRAPH FROM AREA BASIN.K5

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
	.000	.0		5.000	.3	10.000	.3
15.000	.2	.0	20.000	.2	.3	11.000	.3
16.000	1.000	.0	21.000	.2	.4	12.000	.3
17.000	.2	10.5	22.000	.2	.3	13.000	.3
18.000	2.000	.6	23.000	.2	.3	14.000	.2
19.000	.2	.3	24.000	.2			

RUNOFF VOLUME = 1.80886 INCHES = 2.2806 ACRE-FEET

PEAK DISCHARGE RATE = 47.63 CFS AT 1.500 HOURS BASIN AREA =
.0236 SQ. MI.

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COMPUTE NM HYD ID=31 HYD NO=BASIN.K6 DA=.00220 SQ MI

%A=0.0 %B=5.0 %C=5.0 %D=90.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 7.8171 CFS UNIT VOLUME = 1.029 B = 526.28
P60 = 1.8400
AREA = .001980 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
CONSTANT, N = 3.989065
UNIT PEAK = .58497 CFS UNIT VOLUME = .9881 B = 354.44
P60 = 1.8400
AREA = .000220 SQ MI IA = .42500 INCHES INF = 1.04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.100000

PRINT HYD ID=31 CODE=10

HYDROGRAPH FROM AREA BASIN.K6

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		5.000	.0	10.000	.0
15.000	.0		20.000	.0			
	1.000	.0		6.000	.0	11.000	.0
16.000	.0		21.000	.0			
	2.000	1.3		7.000	.0	12.000	.0
17.000	.0		22.000	.0			
	3.000	.1		8.000	.0	13.000	.0
18.000	.0		23.000	.0			
	4.000	.0		9.000	.0	14.000	.0
19.000	.0		24.000	.0			

RUNOFF VOLUME = 2.26512 INCHES = .2658 ACRE-FEET
PEAK DISCHARGE RATE = 5.01 CFS AT 1.500 HOURS BASIN AREA =
.0022 SQ. MI.

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AHYMO-N0V13C-Output

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ADD HYD ID=41 HYD=K5.K6 ID I=30 II=31

PRINT HYD ID=41 CODE=10

HYDROGRAPH FROM AREA K5.K6

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0		5.000	.3	10.000	.3
15.000	.3	.0	20.000	.2	.4	11.000	.3
16.000	.3	.0	21.000	.2	.4	12.000	.3
17.000	.2	11.8	22.000	.2	.4	13.000	.3
18.000	.2	.6	23.000	.2	.4	14.000	.3
19.000	.2	.3	24.000	.2			

RUNOFF VOLUME = 1.84768 INCHES = 2.5463 ACRE- FEET
 PEAK DISCHARGE RATE = 52.64 CFS AT 1.500 HOURS BASIN AREA =
 .0258 SQ. MI.

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*ADD HYD ID=83 HYD=1ADCFG.JK6 ID I=27 II=91

*PRINT HYD ID=83 CODE=10

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ADD HYD ID=43 HYD=K5K6.PONDJ I=41 II=91

PRINT HYD ID=43 CODE=10

HYDROGRAPH FROM AREA K5K6.PONDJ

TIME	TIME FLOW	FLOW	TIME	TIME FLOW	FLOW	TIME	FLOW
HRS	HRS CFS	CFS	HRS	HRS CFS	CFS	HRS	CFS
	.000	.0	12.000	2.9		24.000	1.1
36.000	.0	.0	48.000	.0		25.000	.2
37.000	.0	.0	49.000	.0		26.000	.2
38.000	.0	44.1	50.000	.0		27.000	.1
	3.000	8.7	15.000	2.1			

AHYMO-NOV13C-Output

39.000	.0	51.000	.0			
40.000	4.000	6.5	16.000	1.9	28.000	.1
41.000	.0	52.000	.0			
42.000	5.000	5.9	17.000	1.8	29.000	.1
43.000	.0	53.000	.0			
44.000	6.000	5.7	18.000	1.6	30.000	.1
45.000	.0	54.000	.0			
46.000	7.000	5.3	19.000	1.5	31.000	.1
47.000	.0	55.000	.0			
	8.000	4.7	20.000	1.4	32.000	.1
	.0	56.000	.0			
	9.000	4.1	21.000	1.3	33.000	.1
	.0	57.000	.0			
	10.000	3.7	22.000	1.2	34.000	.0
	.0					
	11.000	3.3	23.000	1.1	35.000	.0
	.0					

RUNOFF VOLUME = 1.73022 INCHES = 10.7264 ACRE-FEET
 PEAK DISCHARGE RATE = 80.50 CFS AT 1.500 HOURS BASIN AREA =
 .1162 SQ. MI.

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ADD HYD

ID=44 HYD=K5K6PONDJ.K3K4 I=43 II=25

PRINT HYD

ID=44 CODE=10

HYDROGRAPH FROM AREA K5K6PONDJ.K3K4

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
	.000	.0	12.000	.0	27.6	24.000	9.1
36.000	.1	48.000	13.000	.0	27.2	25.000	2.2
37.000	.1	49.000	14.000	.0	26.8	26.000	1.0
38.000	.1	73.2	15.000	.0	26.4	27.000	.5
39.000	.0	33.8	16.000	.0	26.0	28.000	.4
40.000	.0	31.4	17.000	.0	25.6	29.000	.3
41.000	.0	30.8	18.000	.0	25.0	30.000	.2
42.000	.0	30.7	19.000	.0	24.4	31.000	.2
43.000	.0	30.3	20.000	.0	22.2	32.000	.1
44.000	.0	29.6	21.000	.0	19.1	33.000	.1
45.000	.0	29.0	22.000	.0	16.3	34.000	.1
46.000	.0	28.5	23.000	13.6		35.000	.1
	11.000	28.0					

AHYMO-N0V13C-Output

47.000 .0

RUNOFF VOLUME = 1.37905 INCHES = 55.0409 ACRE-FEET
 PEAK DISCHARGE RATE = 131.59 CFS AT 1.500 HOURS BASIN AREA =
 .7484 SQ. MI.

*

*

ADD HYD ID=96 HYD=PONDJK13.K1K4 ID I=34 II=44

PRINT HYD ID=96 CODE=10

HYDROGRAPH FROM AREA PONDJK13.K1K4

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS		HRS	CFS
	.000	.0	12.000	.0	34.8	24.000	10.8
36.000	.1	48.000	13.000	.0	33.6	25.000	2.6
37.000	.1	49.000	14.000	.0	32.5	26.000	1.3
38.000	.1	121.2	15.000	.0	31.3	27.000	.8
39.000	.1	57.9	16.000	.0	30.2	28.000	.6
40.000	.1	51.7	17.000	.0	29.2	29.000	.4
41.000	.0	49.5	18.000	.0	28.2	30.000	.3
42.000	.0	47.9	19.000	.0	27.2	31.000	.3
43.000	.0	44.6	20.000	.0	24.8	32.000	.2
44.000	.0	40.6	21.000	.0	21.4	33.000	.2
45.000	.0	39.0	22.000	.0	18.4	34.000	.2
46.000	.0	37.7	23.000	.0	15.5	35.000	.1
47.000	.0	36.1					

RUNOFF VOLUME = 1.35962 INCHES = 76.2057 ACRE-FEET
 PEAK DISCHARGE RATE = 234.44 CFS AT 1.500 HOURS BASIN AREA =
 1.0509 SQ. MI.

*

DIVIDE HYD ID=96 Q=44.91 ID I=97 HYD N0=BYPASS.K

ID II=98 HYD N0=SURGE.K

PRINT HYD

AHYMO-N0V13C-Output
ID=97 CODE=10

HYDROGRAPH FROM AREA BYPASS.K

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	FLOW HRS CFS
	.000	.0		12.000	34.8	24.000	10.8
36.000	.1	.0	48.000	.0			
	1.000	.0		13.000	33.6	25.000	2.6
37.000	.1		49.000	.0			
	2.000	44.9		14.000	32.5	26.000	1.3
38.000	.1		50.000	.0			
	3.000	44.9		15.000	31.3	27.000	.8
39.000	.1		51.000	.0			
	4.000	44.9		16.000	30.2	28.000	.6
40.000	.1		52.000	.0			
	5.000	44.9		17.000	29.2	29.000	.4
41.000	.0		53.000	.0			
	6.000	44.9		18.000	28.2	30.000	.3
42.000	.0		54.000	.0			
	7.000	44.6		19.000	27.2	31.000	.3
43.000	.0		55.000	.0			
	8.000	40.6		20.000	24.8	32.000	.2
44.000	.0		56.000	.0			
	9.000	39.0		21.000	21.4	33.000	.2
45.000	.0		57.000	.0			
	10.000	37.7		22.000	18.4	34.000	.2
46.000	.0			23.000	15.5	35.000	.1
	11.000	36.1					
47.000	.0						

RUNOFF VOLUME = 1.35962 INCHES = 64.5923 ACRE-FEET
 PEAK DISCHARGE RATE = 44.91 CFS AT 1.300 HOURS BASIN AREA =
 .8908 SQ. MI.

PRINT HYD

ID=98 CODE=10

HYDROGRAPH FROM AREA SURGE.K

TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	TIME FLOW HRS CFS	FLOW CFS	TIME	FLOW HRS CFS
	.000	.0		2.000	76.3	4.000	6.8
6.000	3.0						
	1.000	.0	3.000	13.0		5.000	4.6

RUNOFF VOLUME = 1.35962 INCHES = 11.6134 ACRE-FEET
 PEAK DISCHARGE RATE = 189.53 CFS AT 1.500 HOURS BASIN AREA =
 .1602 SQ. MI.

AHYMO-N0V13C-Output

*
*
*

ROUTE RESERVOIR ID=70 HYD=POND.K INFLOW ID=98 CODE=5

OUTFLOW	STORAGE	DEPTH
0.00 0		5404.85
6.79 2.60		5406
12.04 5.29		5407
16.84 9.24		5408
21.30 14.84		5409
25.48 21.67		5410

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5404.85	.000	.00
.50	.00	5404.85	.000	.00
1.00	.00	5404.85	.000	.00
1.50	189.53	5405.87	2.310	6.03
2.00	76.30	5407.36	6.718	13.78
2.50	26.15	5407.70	8.054	15.40
3.00	12.95	5407.73	8.188	15.56
3.50	8.67	5407.68	7.981	15.31
4.00	6.79	5407.60	7.672	14.93
4.50	5.52	5407.51	7.316	14.50
5.00	4.63	5407.42	6.935	14.04
5.50	3.84	5407.32	6.539	13.56
6.00	3.00	5407.21	6.130	13.06
6.50	1.93	5407.11	5.706	12.55
7.00	.00	5406.98	5.236	11.93
7.50	.00	5406.80	4.762	11.01
8.00	.00	5406.64	4.325	10.16
8.50	.00	5406.49	3.922	9.37
9.00	.00	5406.35	3.550	8.64
9.50	.00	5406.23	3.207	7.97
10.00	.00	5406.11	2.890	7.36
10.50	.00	5406.00	2.598	6.78
11.00	.00	5405.88	2.332	6.09
11.50	.00	5405.78	2.094	5.47
12.00	.00	5405.68	1.879	4.91
12.50	.00	5405.60	1.687	4.41
13.00	.00	5405.52	1.515	3.96
13.50	.00	5405.45	1.360	3.55
14.00	.00	5405.39	1.221	3.19
14.50	.00	5405.33	1.096	2.86
15.00	.00	5405.29	.984	2.57
15.50	.00	5405.24	.883	2.31
16.00	.00	5405.20	.793	2.07
16.50	.00	5405.17	.712	1.86
17.00	.00	5405.13	.639	1.67

AHYMO-NOV13C-Output

17.50	.00	5405.10	.573	1.50
18.00	.00	5405.08	.515	1.34
18.50	.00	5405.05	.462	1.21
19.00	.00	5405.03	.415	1.08
19.50	.00	5405.01	.372	.97
20.00	.00	5405.00	.334	.87
20.50	.00	5404.98	.300	.78
21.00	.00	5404.97	.269	.70
21.50	.00	5404.96	.242	.63
22.00	.00	5404.95	.217	.57
22.50	.00	5404.94	.195	.51
23.00	.00	5404.93	.175	.46
23.50	.00	5404.92	.157	.41
24.00	.00	5404.91	.141	.37
24.50	.00	5404.91	.127	.33
25.00	.00	5404.90	.114	.30
25.50	.00	5404.90	.102	.27
26.00	.00	5404.89	.092	.24
26.50	.00	5404.89	.082	.21
27.00	.00	5404.88	.074	.19
27.50	.00	5404.88	.066	.17

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
28.00	.00	5404.88	.059	.16
28.50	.00	5404.87	.053	.14
29.00	.00	5404.87	.048	.13
29.50	.00	5404.87	.043	.11
30.00	.00	5404.87	.039	.10
30.50	.00	5404.87	.035	.09
31.00	.00	5404.86	.031	.08
31.50	.00	5404.86	.028	.07
32.00	.00	5404.86	.025	.07
32.50	.00	5404.86	.023	.06
33.00	.00	5404.86	.020	.05
33.50	.00	5404.86	.018	.05
34.00	.00	5404.86	.016	.04
34.50	.00	5404.86	.015	.04
35.00	.00	5404.86	.013	.03
35.50	.00	5404.86	.012	.03
36.00	.00	5404.85	.011	.03
36.50	.00	5404.85	.009	.02
37.00	.00	5404.85	.009	.02
37.50	.00	5404.85	.008	.02
38.00	.00	5404.85	.007	.02
38.50	.00	5404.85	.006	.02
39.00	.00	5404.85	.006	.01
39.50	.00	5404.85	.005	.01
40.00	.00	5404.85	.004	.01
40.50	.00	5404.85	.004	.01
41.00	.00	5404.85	.004	.01
41.50	.00	5404.85	.003	.01
42.00	.00	5404.85	.003	.01
42.50	.00	5404.85	.003	.01
43.00	.00	5404.85	.002	.01
43.50	.00	5404.85	.002	.01
44.00	.00	5404.85	.002	.00

PEAK DISCHARGE = 15.579 CFS - PEAK OCCURS AT HOUR 2.90

MAXIMUM WATER SURFACE ELEVATION = 5407.737

MAXIMUM STORAGE = 8.2026 AC-FT INCREMENTAL TIME=.100000HRS

*

AHYMO-N0V13C-Output

PRINT HYD

ID=70 CODE=10

HYDROGRAPH FROM AREA POND.K

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
33.000	.000	.0	44.000	.0	6.1	22.000	.6
	.1	.0		.0	4.9	23.000	.5
34.000	1.000	.0	45.000	.0	4.0	24.000	.4
	.0	13.8		.0	3.2	25.000	.3
35.000	2.000	15.6	46.000	.0	2.6	26.000	.2
	.0	14.9		.0	2.1	27.000	.2
36.000	3.000	13.1	47.000	.0	1.7	28.000	.2
	.0	11.9		.0	1.3	29.000	.1
37.000	4.000	10.2	48.000	.0	1.1	30.000	.1
	.0	8.6		.0	.9	31.000	.1
38.000	5.000	7.4	49.000	.0	.7	32.000	.1
	.0			.0			
39.000	6.000		50.000	.0			
	.0			.0			
40.000	7.000		51.000	.0			
	.0			.0			
41.000	8.000			.0			
	.0			.0			
42.000	9.000			.0			
	.0			.0			
43.000	10.000			.0			
	.0			.0			

RUNOFF VOLUME = 1.35961 INCHES = 11.6134 ACRE-FEET
 PEAK DISCHARGE RATE = 15.58 CFS AT 2.900 HOURS BASIN AREA =
 .1602 SQ. MI.

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ADD HYD

ID=99 HYD=BYPASS.ROUTE.K ID I=70 II=97

PRINT HYD

ID=99 CODE=5

HYDROGRAPH FROM AREA BYPASS.ROUTE.K

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	CFS			CFS			
36.000	.000	.0	48.000	.0	39.7	24.000	11.2
	.1	.0		.0	38.5	24.500	4.6
36.500	.500	.0	48.500	.0	37.5	25.000	2.9
	.1	.0		.0	36.6	25.500	2.0
37.000	1.000	50.9	49.000	.0	35.7	26.000	1.5
	.1	58.7		.0			
37.500	1.500		49.500	.0			
	.1			.0			
38.000	2.000			.0			
	.1			.0			

AHYMO-NOV13C-Output

38.000	.1	50.000	.0			
	2.500	60.3	14.500	34.8	26.500	1.2
38.500	.1	50.500	.0			
	3.000	60.5	15.000	33.8	27.000	1.0
39.000	.1	51.000	.0			
	3.500	60.2	15.500	33.0	27.500	.8
39.500	.1	51.500	.0			
	4.000	59.8	16.000	32.3	28.000	.7
40.000	.1	52.000	.0			
	4.500	59.4	16.500	31.6	28.500	.6
40.500	.1	52.500	.0			
	5.000	58.9	17.000	30.9	29.000	.6
41.000	.1	53.000	.0			
	5.500	58.5	17.500	30.3	29.500	.5
41.500	.1	53.500	.0			
	6.000	58.0	18.000	29.6	30.000	.5
42.000	.0	54.000	.0			
	6.500	57.5	18.500	29.0	30.500	.4
42.500	.0	54.500	.0			
	7.000	56.6	19.000	28.3	31.000	.4
43.000	.0	55.000	.0			
	7.500	53.1	19.500	27.1	31.500	.3
43.500	.0	55.500	.0			
	8.000	50.8	20.000	25.7	32.000	.3
44.000	.0	56.000	.0			
	8.500	49.1	20.500	23.9	32.500	.3
44.500	.0	56.500	.0			
	9.000	47.7	21.000	22.1	33.000	.2
45.000	.0	57.000	.0			
	9.500	46.3	21.500	20.5	33.500	.2
45.500	.0	57.500	.0			
	10.000	45.0	22.000	19.0	34.000	.2
46.000	.0					
	10.500	43.6	22.500	17.6	34.500	.2
46.500	.0					
	11.000	42.2	23.000	16.0	35.000	.2
47.000	.0					
	11.500	40.8	23.500	13.7	35.500	.2
47.500	.0					

RUNOFF VOLUME = 1.35961 INCHES = 76.2053 ACRE-FEET
 PEAK DISCHARGE RATE = 60.49 CFS AT 2.900 HOURS BASIN AREA =
 1.0509 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.005

DIA=2.5 N=0.013

WIDTH	RATING CURVE PIPE SECTION		1.0	MAX
	WATER SURFACE	FLOW AREA	FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
	.13	.10	.15	

AHYMO-N0V13C-Output

1.11			
	.26	.27	.66
1.53			
	.39	.49	1.54
1.82			
	.52	.74	2.76
2.03			
	.65	1.02	4.31
2.19			
	.78	1.31	6.15
2.32			
	.91	1.62	8.24
2.41			
	1.04	1.94	10.54
2.47			
	1.17	2.26	12.99
2.50			
	1.30	2.59	15.55
2.50			
	1.43	2.91	18.15
2.50			
	1.56	3.23	20.74
2.50			
	1.69	3.54	23.24
2.50			
	1.82	3.84	25.59
2.50			
	1.95	4.12	27.69
2.50			
	2.08	4.37	29.44
2.50			
	2.21	4.60	30.69
2.50			
	2.35	4.78	31.20
2.50			
	2.50	4.91	31.20

ROUTE MCUNGE

ID=1 HYD=RTE.PONDK INFLOW ID=99

DT=0.0 L=2000 NS=0 SLOPE=0.005

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 580

TABLE PTS= 19

DT= .100000

QMED= 30.24

CKMED= 5.5384

WIDTH MED= 2.50

NREACH= 2

DX= 1000.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
	.00	.0	.0	.484	.0	2.78	.74	1.000	.000	1.000
.000	.000	.0	1.000	.000	.000					
	.13	.1	.2	.356	1.1	2.75	1.56	.990	.010	.990
.000	.010	.0	.998	.000	.002					
	.26	.3	.7	.228	1.5	3.54	2.43	1.275	.024	.979
.130	-.109	.4	.982	.037	-.018					
	.39	.5	1.5	.177	1.8	4.48	3.13	1.614	.038	.972
.246	-.217	1.1	.974	.192	-.166					
	.52	.7	2.8	.149	2.0	5.28	3.72	1.900	.052	.965
.322	-.287	2.1	.968	.287	-.255					
	.65	1.0	4.3	.131	2.2	5.95	4.24	2.143	.066	.959

AHYMO-NOV13C-Output

.377	-.336	3.5	.962	.352	-.314					
	.78	1.3	6.2	.118	2.3	6.53	4.69	2.350	.081	.953
.417	-.370	5.2	.956	.399	-.355					
	.91	1.6	8.2	.109	2.4	7.01	5.09	2.524	.098	.946
.448	-.394	7.2	.949	.434	-.384					
	1.04	1.9	10.5	.102	2.5	7.41	5.44	2.667	.115	.939
.471	-.410	9.4	.943	.461	-.404					
	1.17	2.3	13.0	.097	2.5	7.72	5.75	2.779	.135	.931
.489	-.420	11.7	.935	.482	-.417					
	1.30	2.6	15.5	.092	2.5	7.94	6.01	2.857	.157	.922
.502	-.424	14.3	.927	.497	-.424					
	1.43	2.9	18.1	.089	2.5	7.99	6.24	2.875	.182	.910
.507	-.417	16.8	.917	.506	-.422					
	1.56	3.2	20.7	.087	2.5	7.84	6.42	2.821	.212	.895
.504	-.399	19.4	.904	.507	-.411					
	1.69	3.5	23.2	.085	2.5	7.47	6.57	2.688	.249	.873
.492	-.365	22.0	.886	.500	-.385					
	1.82	3.8	25.6	.083	2.5	6.84	6.67	2.463	.299	.841
.468	-.309	24.4	.860	.482	-.342					
	1.95	4.1	27.7	.083	2.5	5.92	6.73	2.131	.374	.787
.429	-.216	26.6	.819	.452	-.271					
	2.08	4.4	29.4	.083	2.5	4.61	6.73	1.660	.511	.678
.369	-.047	28.6	.746	.404	-.150					
	2.21	4.6	30.7	.083	2.5	2.70	6.67	.972	.909	.369
.306	.325	30.1	.583	.335	.082					
	2.35	4.8	31.2	.085	2.5	1.54	6.52	.554	1.622	-.021
.370	.651	30.9	.171	.338	.490					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 4 OCCURRED 3 TIMES.
 AVERAGE NUMBER ITERATIONS = 1.4357
 Equations solved using the Ponce correction to C2
 *

PRINT HYD

ID=1 CODE=0

HYDROGRAPH FROM AREA RTE.PONDK

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	FLOW	CFS	HRS	CFS
	HRS			HRS			
	CFS			CFS			
	.000	.0		11.700	41.3	23.400	14.6
35.100	.2	.0	46.800	.0			
	.100	.0		11.800	41.0	23.500	14.0
35.200	.2	.0	46.900	.0			
	.200	.0		11.900	40.8	23.600	13.6
35.300	.2	.0	47.000	.0			
	.300	.0		12.000	40.5	23.700	13.0
35.400	.2	.0	47.100	.0			
	.400	.0		12.100	40.3	23.800	12.5
35.500	.2	.0	47.200	.0			
	.500	.0		12.200	40.0	23.900	12.0
35.600	.2	.0	47.300	.0			
	.600	.0		12.300	39.8	24.000	11.5
35.700	.2	.0	47.400	.0			
	.700	.0		12.400	39.6	24.100	10.9
35.800	.2	.0	47.500	.0			
	.800	.0		12.500	39.4	24.200	9.5
35.900	.1	.0	47.600	.0			
	.900	.0		12.600	39.1	24.300	7.5
36.000	.1	.0	47.700	.0			
	1.000	.0		12.700	38.9	24.400	5.9

AHYMO-NOV13C-Output

36.100	.1	47.800	.0			
	1.100	.0	12.800	38.7	24.500	5.1
36.200	.1	47.900	.0			
	1.200	8.9	12.900	38.5	24.600	4.6
36.300	.1	48.000	.0			
	1.300	28.6	13.000	38.3	24.700	4.1
36.400	.1	48.100	.0			
	1.400	30.9	13.100	38.1	24.800	3.7
36.500	.1	48.200	.0			
	1.500	34.5	13.200	37.9	24.900	3.4
36.600	.1	48.300	.0			
	1.600	38.4	13.300	37.7	25.000	3.1
36.700	.1	48.400	.0			
	1.700	42.3	13.400	37.5	25.100	2.9
36.800	.1	48.500	.0			
	1.800	45.7	13.500	37.3	25.200	2.7
36.900	.1	48.600	.0			
	1.900	48.7	13.600	37.1	25.300	2.5
37.000	.1	48.700	.0			
	2.000	51.2	13.700	36.9	25.400	2.3
37.100	.1	48.800	.0			
	2.100	53.2	13.800	36.8	25.500	2.2
37.200	.1	48.900	.0			
	2.200	54.9	13.900	36.6	25.600	2.1
37.300	.1	49.000	.0			
	2.300	56.2	14.000	36.4	25.700	1.9
37.400	.1	49.100	.0			
	2.400	57.3	14.100	36.2	25.800	1.8
37.500	.1	49.200	.0			
	2.500	58.1	14.200	36.0	25.900	1.7
37.600	.1	49.300	.0			
	2.600	58.7	14.300	35.8	26.000	1.6
37.700	.1	49.400	.0			
	2.700	59.2	14.400	35.6	26.100	1.5
37.800	.1	49.500	.0			
	2.800	59.6	14.500	35.4	26.200	1.5
37.900	.1	49.600	.0			
	2.900	59.8	14.600	35.2	26.300	1.4
38.000	.1	49.700	.0			
	3.000	60.0	14.700	35.1	26.400	1.3
38.100	.1	49.800	.0			
	3.100	60.1	14.800	34.9	26.500	1.3
38.200	.1	49.900	.0			
	3.200	60.2	14.900	34.7	26.600	1.2
38.300	.1	50.000	.0			
	3.300	60.3	15.000	34.5	26.700	1.2
38.400	.1	50.100	.0			
	3.400	60.3	15.100	34.3	26.800	1.1
38.500	.1	50.200	.0			
	3.500	60.3	15.200	34.2	26.900	1.1
38.600	.1	50.300	.0			
	3.600	60.3	15.300	34.0	27.000	1.0
38.700	.1	50.400	.0			
	3.700	60.2	15.400	33.8	27.100	1.0
38.800	.1	50.500	.0			
	3.800	60.2	15.500	33.6	27.200	1.0
38.900	.1	50.600	.0			
	3.900	60.1	15.600	33.5	27.300	.9
39.000	.1	50.700	.0			
	4.000	60.1	15.700	33.3	27.400	.9
39.100	.1	50.800	.0			
	4.100	60.0	15.800	33.2	27.500	.9
39.200	.1	50.900	.0			

			AHYMO-NOV13C-Output			
	4.200	59.9	15.900	33.0	27.600	.8
39.300	.1	51.000	.0			
	4.300	59.9	16.000	32.8	27.700	.8
39.400	.1	51.100	.0			
	4.400	59.8	16.100	32.7	27.800	.8
39.500	.1	51.200	.0			
	4.500	59.7	16.200	32.5	27.900	.8
39.600	.1	51.300	.0			
	4.600	59.6	16.300	32.4	28.000	.8
39.700	.1	51.400	.0			
	4.700	59.5	16.400	32.2	28.100	.7
39.800	.1	51.500	.0			
	4.800	59.5	16.500	32.1	28.200	.7
39.900	.1	51.600	.0			
	4.900	59.4	16.600	31.9	28.300	.7
40.000	.1	51.700	.0			
	5.000	59.3	16.700	31.8	28.400	.7
40.100	.1	51.800	.0			
	5.100	59.2	16.800	31.7	28.500	.7
40.200	.1	51.900	.0			
	5.200	59.1	16.900	31.5	28.600	.6
40.300	.1	52.000	.0			
	5.300	59.0	17.000	31.4	28.700	.6
40.400	.1	52.100	.0			
	5.400	58.9	17.100	31.2	28.800	.6
40.500	.1	52.200	.0			
	5.500	58.8	17.200	31.1	28.900	.6
40.600	.1	52.300	.0			
	5.600	58.7	17.300	30.9	29.000	.6
40.700	.1	52.400	.0			
	5.700	58.6	17.400	30.7	29.100	.6
40.800	.1	52.500	.0			
	5.800	58.5	17.500	30.5	29.200	.6
40.900	.1	52.600	.0			
	5.900	58.4	17.600	30.4	29.300	.5
41.000	.1	52.700	.0			
	6.000	58.3	17.700	30.2	29.400	.5
41.100	.1	52.800	.0			
	6.100	58.2	17.800	30.1	29.500	.5
41.200	.1	52.900	.0			
	6.200	58.1	17.900	29.9	29.600	.5
41.300	.1	53.000	.0			
	6.300	58.0	18.000	29.8	29.700	.5
41.400	.1	53.100	.0			
	6.400	57.9	18.100	29.6	29.800	.5
41.500	.1	53.200	.0			
	6.500	57.8	18.200	29.5	29.900	.5
41.600	.1	53.300	.0			
	6.600	57.7	18.300	29.4	30.000	.5
41.700	.1	53.400	.0			
	6.700	57.6	18.400	29.2	30.100	.5
41.800	.0	53.500	.0			
	6.800	57.5	18.500	29.1	30.200	.4
41.900	.0	53.600	.0			
	6.900	57.4	18.600	29.0	30.300	.4
42.000	.0	53.700	.0			
	7.000	57.3	18.700	28.8	30.400	.4
42.100	.0	53.800	.0			
	7.100	57.0	18.800	28.7	30.500	.4
42.200	.0	53.900	.0			
	7.200	56.7	18.900	28.6	30.600	.4
42.300	.0	54.000	.0			
	7.300	56.3	19.000	28.4	30.700	.4

AHYMO-NOV13C-Output

42.400	.0	54.100	.0			
	7.400	55.8	19.100	28.3	30.800	.4
42.500	.0	54.200	.0			
	7.500	55.2	19.200	28.2	30.900	.4
42.600	.0	54.300	.0			
	7.600	54.6	19.300	28.0	31.000	.4
42.700	.0	54.400	.0			
	7.700	54.1	19.400	27.7	31.100	.4
42.800	.0	54.500	.0			
	7.800	53.5	19.500	27.3	31.200	.4
42.900	.0	54.600	.0			
	7.900	53.0	19.600	27.0	31.300	.4
43.000	.0	54.700	.0			
	8.000	52.5	19.700	26.8	31.400	.4
43.100	.0	54.800	.0			
	8.100	52.0	19.800	26.5	31.500	.3
43.200	.0	54.900	.0			
	8.200	51.6	19.900	26.2	31.600	.3
43.300	.0	55.000	.0			
	8.300	51.2	20.000	25.9	31.700	.3
43.400	.0	55.100	.0			
	8.400	50.8	20.100	25.6	31.800	.3
43.500	.0	55.200	.0			
	8.500	50.4	20.200	25.3	31.900	.3
43.600	.0	55.300	.0			
	8.600	50.0	20.300	25.0	32.000	.3
43.700	.0	55.400	.0			
	8.700	49.7	20.400	24.6	32.100	.3
43.800	.0	55.500	.0			
	8.800	49.4	20.500	24.2	32.200	.3
43.900	.0	55.600	.0			
	8.900	49.1	20.600	23.8	32.300	.3
44.000	.0	55.700	.0			
	9.000	48.7	20.700	23.4	32.400	.3
44.100	.0	55.800	.0			
	9.100	48.4	20.800	23.0	32.500	.3
44.200	.0	55.900	.0			
	9.200	48.1	20.900	22.6	32.600	.3
44.300	.0	56.000	.0			
	9.300	47.9	21.000	22.3	32.700	.3
44.400	.0	56.100	.0			
	9.400	47.6	21.100	22.0	32.800	.3
44.500	.0	56.200	.0			
	9.500	47.3	21.200	21.7	32.900	.3
44.600	.0	56.300	.0			
	9.600	47.0	21.300	21.3	33.000	.3
44.700	.0	56.400	.0			
	9.700	46.7	21.400	21.0	33.100	.3
44.800	.0	56.500	.0			
	9.800	46.5	21.500	20.7	33.200	.2
44.900	.0	56.600	.0			
	9.900	46.2	21.600	20.4	33.300	.2
45.000	.0	56.700	.0			
	10.000	45.9	21.700	20.1	33.400	.2
45.100	.0	56.800	.0			
	10.100	45.7	21.800	19.8	33.500	.2
45.200	.0	56.900	.0			
	10.200	45.4	21.900	19.5	33.600	.2
45.300	.0	57.000	.0			
	10.300	45.2	22.000	19.2	33.700	.2
45.400	.0	57.100	.0			
	10.400	44.9	22.100	18.9	33.800	.2
45.500	.0	57.200	.0			

AHYMO-NOV13C-Output						
	10.500	44.6	22.200	18.6	33.900	.2
45.600	.0	57.300	.0			
	10.600	44.4	22.300	18.4	34.000	.2
45.700	.0	57.400	.0			
	10.700	44.1	22.400	18.1	34.100	.2
45.800	.0	57.500	.0			
	10.800	43.8	22.500	17.8	34.200	.2
45.900	.0	57.600	.0			
	10.900	43.5	22.600	17.5	34.300	.2
46.000	.0	57.700	.0			
	11.000	43.2	22.700	17.2	34.400	.2
46.100	.0	57.800	.0			
	11.100	42.9	22.800	16.9	34.500	.2
46.200	.0	57.900	.0			
	11.200	42.6	22.900	16.6	34.600	.2
46.300	.0	58.000	.0			
	11.300	42.4	23.000	16.3	34.700	.2
46.400	.0	58.100	.0			
	11.400	42.1	23.100	15.9	34.800	.2
46.500	.0					
	11.500	41.8	23.200	15.5	34.900	.2
46.600	.0					
	11.600	41.5	23.300	15.1	35.000	.2
46.700	.0					

RUNOFF VOLUME = 1.35542 INCHES = 75.9700 ACRE-FEET
 PEAK DISCHARGE RATE = 60.30 CFS AT 3.400 HOURS BASIN AREA =
 1.0509 SQ. MI.

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COMPUTE NM HYD ID=2 HYD NO=UNIVROWNORTH DA=.007266 SQ MI

%A=0.0 %B=5.0 %C=5.0 %D=90.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 25.818 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .006539 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.9320 CFS UNIT VOLUME = 1.001 B = 354.44
 P60 = 1.8400
 AREA = .000727 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD

ID=2 CODE=5

AHYMO-N0V13C-Output

HYDROGRAPH FROM AREA UNIVROWNORTH

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		5.000	.1	10.000	.1
15.000	.1	.0	20.000	.1	.1	10.500	.1
	.500	.0		5.500	.1		
15.500	.1	.0	20.500	.1	.2	11.000	.1
	1.000	.0		6.000	.2		
16.000	.1	16.5	21.000	.1	.2	11.500	.1
	1.500			6.500	.2		
16.500	.1	4.3	21.500	.1	.2	12.000	.1
	2.000	.6		7.000	.2		
17.000	.1	.2	22.000	.1	.1	12.500	.1
	2.500	.2		7.500	.1		
17.500	.1	.2	22.500	.1	.1	13.000	.1
	3.000	.2		8.000	.1		
18.000	.1	.2	23.000	.1	.1	13.500	.1
	3.500	.1		8.500	.1		
18.500	.1	.1	23.500	.1	.1	14.000	.1
	4.000	.1		9.000	.1		
19.000	.1	.1	24.000	.1	.1	14.500	.1
	4.500	.1		9.500	.1		
19.500	.1	.0	24.500	.0			

RUNOFF VOLUME = 2.26512 INCHES = .8778 ACRE-FEET
 PEAK DISCHARGE RATE = 16.51 CFS AT 1.500 HOURS BASIN AREA =
 .0073 SQ. MI.

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ADD HYD

ID=3 HYD=UNIVN.PONDK ID I=1 II=2

PRINT HYD

ID=3 CODE=5

HYDROGRAPH FROM AREA UNIVN.PONDK

TIME	TIME	FLOW	TIME	TIME	FLOW	TIME	FLOW
	FLOW			FLOW			
HRS	HRS	CFS	HRS	HRS	CFS	HRS	CFS
	.000	.0		12.000	40.7	24.000	11.6
36.000	.1	.0	48.000	.0			
	.500	.0		12.500	39.5	24.500	5.1
36.500	.1	.0	48.500	.0			
	1.000	.0		13.000	38.4	25.000	3.1
37.000	.1	51.0	49.000	.0			
	1.500			13.500	37.4	25.500	2.2
37.500	.1	55.5	49.500	.0			
	2.000	58.6		14.000	36.5	26.000	1.6
38.000	.1	60.2	50.000	.0			
	2.500			14.500	35.5	26.500	1.3
38.500	.1		50.500	.0			
	3.000			15.000	34.6	27.000	1.0
39.000	.1		51.000	.0			

AHYMO-NOV13C-Output

	3.500	60.5	15.500	33.7	27.500	.9
39.500	.1	51.500	.0			
	4.000	60.2	16.000	32.9	28.000	.8
40.000	.1	52.000	.0			
	4.500	59.8	16.500	32.2	28.500	.7
40.500	.1	52.500	.0			
	5.000	59.4	17.000	31.5	29.000	.6
41.000	.1	53.000	.0			
	5.500	59.0	17.500	30.6	29.500	.5
41.500	.1	53.500	.0			
	6.000	58.5	18.000	29.9	30.000	.5
42.000	.0	54.000	.0			
	6.500	58.0	18.500	29.2	30.500	.4
42.500	.0	54.500	.0			
	7.000	57.4	19.000	28.5	31.000	.4
43.000	.0	55.000	.0			
	7.500	55.4	19.500	27.4	31.500	.3
43.500	.0	55.500	.0			
	8.000	52.6	20.000	26.0	32.000	.3
44.000	.0	56.000	.0			
	8.500	50.5	20.500	24.3	32.500	.3
44.500	.0	56.500	.0			
	9.000	48.9	21.000	22.4	33.000	.3
45.000	.0	57.000	.0			
	9.500	47.4	21.500	20.8	33.500	.2
45.500	.0	57.500	.0			
	10.000	46.1	22.000	19.3	34.000	.2
46.000	.0	58.000	.0			
	10.500	44.8	22.500	17.9	34.500	.2
46.500	.0					
	11.000	43.3	23.000	16.3	35.000	.2
47.000	.0					
	11.500	41.9	23.500	14.1	35.500	.2
47.500	.0					

RUNOFF VOLUME = 1.36166 INCHES = 76.8477 ACRE-FEET
 PEAK DISCHARGE RATE = 60.46 CFS AT 3.400 HOURS BASIN AREA =
 1.0582 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.005

DIA=2.5 N=0.013

WIDTH	RATING CURVE PIPE SECTION			MAX
	WATER SURFACE	FLOW AREA	1.0 FLOW RATE	
	ELEV	SQ FT	CFS	FT
.00	.00	.00	.00	
1.11	.13	.10	.15	
1.53	.26	.27	.66	
1.82	.39	.49	1.54	

AHYMO-N0V13C-Output

2.03	.52	.74	2.76
2.19	.65	1.02	4.31
2.32	.78	1.31	6.15
2.41	.91	1.62	8.24
2.47	1.04	1.94	10.54
2.50	1.17	2.26	12.99
2.50	1.30	2.59	15.55
2.50	1.43	2.91	18.15
2.50	1.56	3.23	20.74
2.50	1.69	3.54	23.24
2.50	1.82	3.84	25.59
2.50	1.95	4.12	27.69
2.50	2.08	4.37	29.44
2.50	2.21	4.60	30.69
2.50	2.35	4.78	31.20
2.50	2.50	4.91	31.20

ROUTE MCUNGE

ID=4 HYD=RTE.UNIVN INFLOW ID=3

DT=0.0 L=2000 NS=0 SLOPE=0.005

MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 582
DT= .100000
WIDTH MED=

TABLE PTS= 19
QMED= 30.23
NREACH= 2

CKMED= 5.5384
DX= 1000.00

C2	DEPTH C3 (FT)	AREA Q-M (SQ FT) (CFS)	Q C1-M (CFS)	TRAVEL C2-M TIME(HR)	WIDTH C3-M (FT)	ck (FPS)	VEL (FPS)	C	D	C1
.000	.00	.0	.0	.484	.0	2.78	.74	1.000	.000	1.000
.000	.13	.1	.2	.356	1.1	2.75	1.56	.990	.010	.990
.000	.26	.3	.7	.228	1.5	3.54	2.43	1.275	.024	.979
.130	-.109	.4	.982	.037	-.018	4.48	3.13	1.614	.038	.972
.246	-.39	.5	1.5	.177	1.8	5.28	3.72	1.900	.052	.965
.322	-.52	.7	2.8	.149	2.0	5.95	4.24	2.143	.066	.959
.377	-.65	1.0	4.3	.131	2.2	6.53	4.69	2.350	.081	.953
.417	-.78	1.3	6.2	.118	2.3	7.01	5.09	2.524	.098	.946
.448	-.91	1.6	8.2	.109	2.4					
	-.394	7.2	.949	.434	-.384					

AHYMO-NOV13C-Output

	1.04	1.9	10.5	.102	2.5	7.41	5.44	2.667	.115	.939
.471	-.410	9.4	.943	.461	-.404					
	1.17	2.3	13.0	.097	2.5	7.72	5.75	2.779	.135	.931
.489	-.420	11.7	.935	.482	-.417					
	1.30	2.6	15.5	.092	2.5	7.94	6.01	2.857	.157	.922
.502	-.424	14.3	.927	.497	-.424					
	1.43	2.9	18.1	.089	2.5	7.99	6.24	2.875	.182	.910
.507	-.417	16.8	.917	.506	-.422					
	1.56	3.2	20.7	.087	2.5	7.84	6.42	2.821	.212	.895
.504	-.399	19.4	.904	.507	-.411					
	1.69	3.5	23.2	.085	2.5	7.47	6.57	2.688	.249	.873
.492	-.365	22.0	.886	.500	-.385					
	1.82	3.8	25.6	.083	2.5	6.84	6.67	2.463	.299	.841
.468	-.309	24.4	.860	.482	-.342					
	1.95	4.1	27.7	.083	2.5	5.92	6.73	2.131	.374	.787
.429	-.216	26.6	.819	.452	-.271					
	2.08	4.4	29.4	.083	2.5	4.61	6.73	1.660	.511	.678
.369	-.047	28.6	.746	.404	-.150					
	2.21	4.6	30.7	.083	2.5	2.70	6.67	.972	.909	.369
.306	.325	30.1	.583	.335	.082					
	2.35	4.8	31.2	.085	2.5	1.54	6.52	.554	1.622	-.021
.370	.651	30.9	.171	.338	.490					

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 5 OCCURRED 1 TIMES.

AVERAGE NUMBER ITERATIONS = 1.4373

Equations solved using the Ponce correction to C2

*

PRINT HYD

ID=4 CODE=0

HYDROGRAPH FROM AREA RTE.UNIVN

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME	FLOW CFS
	.000	.0		11.700	42.4	23.400	15.1
35.100	.2	46.800		.0		23.500	14.5
	.100	.0		11.800	42.1		
35.200	.2	46.900		.0		23.600	14.0
	.200	.0		11.900	41.9		
35.300	.2	47.000		.0		23.700	13.5
	.300	.0		12.000	41.6		
35.400	.2	47.100		.0		23.800	12.9
	.400	.0		12.100	41.3		
35.500	.2	47.200		.0		23.900	12.4
	.500	.0		12.200	41.1		
35.600	.2	47.300		.0		24.000	11.9
	.600	.0		12.300	40.8		
35.700	.2	47.400		.0		24.100	11.5
	.700	.0		12.400	40.6		
35.800	.2	47.500		.0		24.200	10.6
	.800	.0		12.500	40.3		
35.900	.2	47.600		.0		24.300	9.2
	.900	.0		12.600	40.1		
36.000	.2	47.700		.0		24.400	7.2
	1.000	.0		12.700	39.9		
36.100	.1	47.800		.0		24.500	5.8
	1.100	.0		12.800	39.6		
36.200	.1	47.900		.0		24.600	5.0
	1.200	.8		12.900	39.4		
36.300	.1	48.000		.0			

AHYMO-NOV13C-Output						
	1.300	15.6	13.000	39.2	24.700	4.5
36.400	.1	48.100	.0			
	1.400	31.8	13.100	39.0	24.800	4.1
36.500	.1	48.200	.0			
	1.500	34.6	13.200	38.8	24.900	3.7
36.600	.1	48.300	.0			
	1.600	37.6	13.300	38.5	25.000	3.4
36.700	.1	48.400	.0			
	1.700	40.4	13.400	38.3	25.100	3.2
36.800	.1	48.500	.0			
	1.800	43.0	13.500	38.1	25.200	2.9
36.900	.1	48.600	.0			
	1.900	45.5	13.600	37.9	25.300	2.7
37.000	.1	48.700	.0			
	2.000	47.8	13.700	37.7	25.400	2.5
37.100	.1	48.800	.0			
	2.100	49.7	13.800	37.6	25.500	2.3
37.200	.1	48.900	.0			
	2.200	51.3	13.900	37.4	25.600	2.2
37.300	.1	49.000	.0			
	2.300	52.8	14.000	37.2	25.700	2.1
37.400	.1	49.100	.0			
	2.400	54.0	14.100	37.0	25.800	1.9
37.500	.1	49.200	.0			
	2.500	55.1	14.200	36.8	25.900	1.8
37.600	.1	49.300	.0			
	2.600	56.1	14.300	36.6	26.000	1.7
37.700	.1	49.400	.0			
	2.700	56.9	14.400	36.4	26.100	1.6
37.800	.1	49.500	.0			
	2.800	57.6	14.500	36.2	26.200	1.6
37.900	.1	49.600	.0			
	2.900	58.2	14.600	36.0	26.300	1.5
38.000	.1	49.700	.0			
	3.000	58.7	14.700	35.8	26.400	1.4
38.100	.1	49.800	.0			
	3.100	59.2	14.800	35.7	26.500	1.3
38.200	.1	49.900	.0			
	3.200	59.5	14.900	35.5	26.600	1.3
38.300	.1	50.000	.0			
	3.300	59.7	15.000	35.3	26.700	1.2
38.400	.1	50.100	.0			
	3.400	59.9	15.100	35.1	26.800	1.2
38.500	.1	50.200	.0			
	3.500	60.1	15.200	34.9	26.900	1.1
38.600	.1	50.300	.0			
	3.600	60.2	15.300	34.7	27.000	1.1
38.700	.1	50.400	.0			
	3.700	60.3	15.400	34.6	27.100	1.0
38.800	.1	50.500	.0			
	3.800	60.3	15.500	34.4	27.200	1.0
38.900	.1	50.600	.0			
	3.900	60.3	15.600	34.2	27.300	1.0
39.000	.1	50.700	.0			
	4.000	60.3	15.700	34.0	27.400	.9
39.100	.1	50.800	.0			
	4.100	60.3	15.800	33.9	27.500	.9
39.200	.1	50.900	.0			
	4.200	60.2	15.900	33.7	27.600	.9
39.300	.1	51.000	.0			
	4.300	60.2	16.000	33.5	27.700	.9
39.400	.1	51.100	.0			
	4.400	60.1	16.100	33.4	27.800	.8

AHYMO-NOV13C-Output

39.500	.1	51.200	.0			
	4.500	60.1	16.200	33.2	27.900	.8
39.600	.1	51.300	.0			
	4.600	60.0	16.300	33.0	28.000	.8
39.700	.1	51.400	.0			
	4.700	59.9	16.400	32.9	28.100	.8
39.800	.1	51.500	.0			
	4.800	59.9	16.500	32.7	28.200	.7
39.900	.1	51.600	.0			
	4.900	59.8	16.600	32.6	28.300	.7
40.000	.1	51.700	.0			
	5.000	59.7	16.700	32.4	28.400	.7
40.100	.1	51.800	.0			
	5.100	59.6	16.800	32.3	28.500	.7
40.200	.1	51.900	.0			
	5.200	59.5	16.900	32.1	28.600	.7
40.300	.1	52.000	.0			
	5.300	59.5	17.000	32.0	28.700	.7
40.400	.1	52.100	.0			
	5.400	59.4	17.100	31.9	28.800	.6
40.500	.1	52.200	.0			
	5.500	59.3	17.200	31.7	28.900	.6
40.600	.1	52.300	.0			
	5.600	59.2	17.300	31.6	29.000	.6
40.700	.1	52.400	.0			
	5.700	59.1	17.400	31.4	29.100	.6
40.800	.1	52.500	.0			
	5.800	59.0	17.500	31.2	29.200	.6
40.900	.1	52.600	.0			
	5.900	58.9	17.600	30.9	29.300	.6
41.000	.1	52.700	.0			
	6.000	58.8	17.700	30.7	29.400	.6
41.100	.1	52.800	.0			
	6.100	58.7	17.800	30.4	29.500	.5
41.200	.1	52.900	.0			
	6.200	58.6	17.900	30.3	29.600	.5
41.300	.1	53.000	.0			
	6.300	58.5	18.000	30.1	29.700	.5
41.400	.1	53.100	.0			
	6.400	58.4	18.100	29.9	29.800	.5
41.500	.1	53.200	.0			
	6.500	58.3	18.200	29.8	29.900	.5
41.600	.1	53.300	.0			
	6.600	58.2	18.300	29.6	30.000	.5
41.700	.1	53.400	.0			
	6.700	58.1	18.400	29.5	30.100	.5
41.800	.1	53.500	.0			
	6.800	58.0	18.500	29.3	30.200	.5
41.900	.1	53.600	.0			
	6.900	57.9	18.600	29.2	30.300	.5
42.000	.0	53.700	.0			
	7.000	57.8	18.700	29.1	30.400	.4
42.100	.0	53.800	.0			
	7.100	57.7	18.800	28.9	30.500	.4
42.200	.0	53.900	.0			
	7.200	57.5	18.900	28.8	30.600	.4
42.300	.0	54.000	.0			
	7.300	57.3	19.000	28.7	30.700	.4
42.400	.0	54.100	.0			
	7.400	57.1	19.100	28.5	30.800	.4
42.500	.0	54.200	.0			
	7.500	56.7	19.200	28.4	30.900	.4
42.600	.0	54.300	.0			

AHYMO-NOV13C-Output						
	7.600	56.4	19.300	28.3	31.000	.4
42.700	.0	54.400	.0			
	7.700	55.9	19.400	28.1	31.100	.4
42.800	.0	54.500	.0			
	7.800	55.5	19.500	27.7	31.200	.4
42.900	.0	54.600	.0			
	7.900	55.0	19.600	27.4	31.300	.4
43.000	.0	54.700	.0			
	8.000	54.5	19.700	27.1	31.400	.4
43.100	.0	54.800	.0			
	8.100	54.0	19.800	26.8	31.500	.4
43.200	.0	54.900	.0			
	8.200	53.5	19.900	26.5	31.600	.4
43.300	.0	55.000	.0			
	8.300	53.0	20.000	26.2	31.700	.3
43.400	.0	55.100	.0			
	8.400	52.5	20.100	25.9	31.800	.3
43.500	.0	55.200	.0			
	8.500	52.1	20.200	25.6	31.900	.3
43.600	.0	55.300	.0			
	8.600	51.7	20.300	25.3	32.000	.3
43.700	.0	55.400	.0			
	8.700	51.3	20.400	25.0	32.100	.3
43.800	.0	55.500	.0			
	8.800	50.9	20.500	24.6	32.200	.3
43.900	.0	55.600	.0			
	8.900	50.5	20.600	24.2	32.300	.3
44.000	.0	55.700	.0			
	9.000	50.1	20.700	23.7	32.400	.3
44.100	.0	55.800	.0			
	9.100	49.8	20.800	23.3	32.500	.3
44.200	.0	55.900	.0			
	9.200	49.5	20.900	23.0	32.600	.3
44.300	.0	56.000	.0			
	9.300	49.1	21.000	22.6	32.700	.3
44.400	.0	56.100	.0			
	9.400	48.8	21.100	22.3	32.800	.3
44.500	.0	56.200	.0			
	9.500	48.5	21.200	22.0	32.900	.3
44.600	.0	56.300	.0			
	9.600	48.2	21.300	21.7	33.000	.3
44.700	.0	56.400	.0			
	9.700	47.9	21.400	21.3	33.100	.3
44.800	.0	56.500	.0			
	9.800	47.6	21.500	21.0	33.200	.3
44.900	.0	56.600	.0			
	9.900	47.3	21.600	20.7	33.300	.3
45.000	.0	56.700	.0			
	10.000	47.1	21.700	20.4	33.400	.2
45.100	.0	56.800	.0			
	10.100	46.8	21.800	20.1	33.500	.2
45.200	.0	56.900	.0			
	10.200	46.5	21.900	19.8	33.600	.2
45.300	.0	57.000	.0			
	10.300	46.3	22.000	19.5	33.700	.2
45.400	.0	57.100	.0			
	10.400	46.0	22.100	19.2	33.800	.2
45.500	.0	57.200	.0			
	10.500	45.7	22.200	18.9	33.900	.2
45.600	.0	57.300	.0			
	10.600	45.4	22.300	18.6	34.000	.2
45.700	.0	57.400	.0			
	10.700	45.2	22.400	18.4	34.100	.2

AHYMO-NOV13C-Output

45.800	.0	57.500	.0			
45.900	10.800	44.9	22.500	18.1	34.200	.2
45.900	.0	57.600	.0			
46.000	10.900	44.6	22.600	17.8	34.300	.2
46.000	.0	57.700	.0			
46.100	11.000	44.3	22.700	17.5	34.400	.2
46.100	.0	57.800	.0			
46.200	11.100	44.1	22.800	17.2	34.500	.2
46.200	.0	57.900	.0			
46.300	11.200	43.8	22.900	16.9	34.600	.2
46.300	.0	58.000	.0			
46.400	11.300	43.5	23.000	16.6	34.700	.2
46.400	.0	58.100	.0			
46.500	11.400	43.2	23.100	16.2	34.800	.2
46.500	.0	58.200	.0			
46.600	11.500	42.9	23.200	15.8	34.900	.2
46.600	.0	58.300	.0			
46.700	11.600	42.7	23.300	15.5	35.000	.2
46.700	.0					

RUNOFF VOLUME = 1.35983 INCHES = 76.7446 ACRE- FEET
 PEAK DISCHARGE RATE = 60.30 CFS AT 3.900 HOURS BASIN AREA =
 1.0582 SQ. MI.

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COMPUTE NM HYD ID=5 HYD NO=UNIVROWSOUTH DA=.007266 SQ MI

%A=0.0 %B=5.0 %C=5.0 %D=90.0

TP=-.1333 HR RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE
 CONSTANT, N = 7.106420
 UNIT PEAK = 25.818 CFS UNIT VOLUME = 1.030 B = 526.28
 P60 = 1.8400
 AREA = .006539 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

K = .118524HR TP = .133300HR K/TP RATIO = .889153 SHAPE
 CONSTANT, N = 3.989065
 UNIT PEAK = 1.9320 CFS UNIT VOLUME = 1.001 B = 354.44
 P60 = 1.8400
 AREA = .000727 SQ MI IA = .42500 INCHES INF = 1.04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 .100000

PRINT HYD ID=5 CODE=5

HYDROGRAPH FROM AREA UNIVROWSOUTH

TIME	FLOW	TIME	FLOW	TIME	FLOW
------	------	------	------	------	------

AHYMO-N0V13C-Output

TIME	FLOW	TIME	FLOW			
HRS	HRS	HRS	HRS	CFS	HRS	CFS
	.000	.0	5.000	.1	10.000	.1
15.000	.1	20.000	.1	.1	10.500	.1
	.500	.0	5.500	.1		
15.500	.1	20.500	.1	.2	11.000	.1
	1.000	.0	6.000	.2		
16.000	.1	21.000	.1	.2	11.500	.1
	1.500	16.5	6.500	.2		
16.500	.1	21.500	.1	.2	12.000	.1
	2.000	4.3	7.000	.2		
17.000	.1	22.000	.1	.2	12.500	.1
	2.500	.6	7.500	.1		
17.500	.1	22.500	.1	.1	13.000	.1
	3.000	.2	8.000	.1		
18.000	.1	23.000	.1	.1	13.500	.1
	3.500	.2	8.500	.1		
18.500	.1	23.500	.1	.1	14.000	.1
	4.000	.1	9.000	.1		
19.000	.1	24.000	.1	.1	14.500	.1
	4.500	.1	9.500	.1		
19.500	.1	24.500	.0			

RUNOFF VOLUME = 2.26512 INCHES = .8778 ACRE-FEET
 PEAK DISCHARGE RATE = 16.51 CFS AT 1.500 HOURS BASIN AREA =
 .0073 SQ. MI.

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ADD HYD

ID=6 HYD=UNIVNS.PONDK ID I=4 II=5

PRINT HYD

ID=6 CODE=5

HYDROGRAPH FROM AREA UNIVNS.PONDK

TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	FLOW	CFS	HRS	CFS	HRS	CFS
	.000	.0	12.000	41.7	24.000	12.0
36.000	.2	.0	12.500	40.4	24.500	5.8
	.500	.0	13.000	39.3	25.000	3.4
36.500	.1	.0	13.500	38.2	25.500	2.3
	1.000	.0	14.000	37.3	26.000	1.7
37.000	.1	51.1	14.500	36.3	26.500	1.3
	1.500	52.0	15.000	35.4	27.000	1.1
37.500	.1	55.7	15.500	34.5	27.500	.9
	2.000	59.0	16.000	33.6	28.000	.8
38.000	.1	60.2	16.500	32.8	28.500	.7
	2.500	60.2				
38.500	.1	60.2				
	3.000					
39.000	.1					
	3.500					
39.500	.1					
	4.000					
40.000	.1					
	4.500					

AHYMO-NOV13C-Output						
40.500	.1	52.500	.0			
	5.000	59.8	17.000	32.1	29.000	.6
41.000	.1	53.000	.0			
	5.500	59.4	17.500	31.3	29.500	.5
41.500	.1	53.500	.0			
	6.000	59.0	18.000	30.2	30.000	.5
42.000	.0	54.000	.0			
	6.500	58.5	18.500	29.4	30.500	.4
42.500	.0	54.500	.0			
	7.000	58.0	19.000	28.8	31.000	.4
43.000	.0	55.000	.0			
	7.500	56.9	19.500	27.8	31.500	.4
43.500	.0	55.500	.0			
	8.000	54.6	20.000	26.3	32.000	.3
44.000	.0	56.000	.0			
	8.500	52.2	20.500	24.7	32.500	.3
44.500	.0	56.500	.0			
	9.000	50.3	21.000	22.7	33.000	.3
45.000	.0	57.000	.0			
	9.500	48.6	21.500	21.1	33.500	.2
45.500	.0	57.500	.0			
	10.000	47.2	22.000	19.5	34.000	.2
46.000	.0	58.000	.0			
	10.500	45.8	22.500	18.2	34.500	.2
46.500	.0					
	11.000	44.5	23.000	16.7	35.000	.2
47.000	.0					
	11.500	43.1	23.500	14.6	35.500	.2
47.500	.0					

RUNOFF VOLUME = 1.36600 INCHES = 77.6222 ACRE-FEET
 PEAK DISCHARGE RATE = 60.44 CFS AT 3.900 HOURS BASIN AREA =
 1.0655 SQ. MI.

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PUNCH HYD ID=6

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*S*****

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*S*****END OF TRAILS DRAINAGE ANALYSIS

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FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 08:55:54