RWCD FLOODWAY REACH 2

United States
Department of
Agriculture

Soil
Conservation
Service

201 E. Indianola Avenue
Suite 200
Phoenix, AZ 85012

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

Subject: ENG - East Maricopa Floodway Reach 2, Revised Inlet Hydrology

Date: November 16, 1988

To: Ralph Arrington, SCE
Phoenix, AZ

File Code: 210-13-15

As requested, I have reviewed and revised the Inlet Hydrology for Reach 2 of the East Maricopa Floodway (formerly known as the RWCD Floodway). The review indicated that there is an error in the drainage area delineation between Subareas #1 and #2. The error was detected using a recent aerial photograph which showed that approximately one-half of the drainage originally thought to be contributing to Subarea #1 actually contributes its flow to Subarea #2. The original (i.e., the study dated 3/82) and the revised subarea drainages are as follows:

Subarea:	Original Area (Mi^2)	Revised Area (Mi^2)
1	3.25	1.66
2	0.34	1.93
Total:	3.59	3.59

Due to the change in the subarea delineation, there was a corresponding change in the curve numbers and times of concentration. These changes have been noted in the documentation.

Design peaks for the respective areas were modified using methods described in TR-55, dated June 1986. The Graphical Peak Discharge Method was used (see the attached worksheets). The original and revised peaks are as follows for the 10-year, 25-year, and 100-year floods:

Subarea:	Original Peaks (cfs):			Revised Peaks (cfs):		
	100-Yr.	25-Yr.	10-Yr.	100-Yr.	25-Yr.	10-Yr.
1	1990	1203	728	1149	684	418
2	270	151	83	1285	743	446

The "original peaks" as noted above are based on the "Existing Condition" alternative in the 3/82 documentation.

There are a total of ten (10) inlets proposed to carry the peak discharge from Subarea #2 into the floodway. These consist of seven existing inlets plus three new inlets. The division of flow for the respective inlets is difficult to determine, since the total flow separates as it proceeds downstream. Based on the relative size of the drainage channels (as noted on the aerial photograph), the flow from the subarea was divided between the respective inlets, in a north to south direction, as follows:

Inlet No.:	% of Total Flow:	100-Yr. Design Discharge (cfs):
7	10	129
8	10	129
9	10	129
C	10	129
10	5	64
11	15	193
D	10	129
12	15	193
33	7	90
G	8	103

Since there were no proposed changes in the size or locations of the inlets controlling the outflow from Subarea #1, no revised division of flow was estimated for this subarea.

The revised drainage area delineation and other proposed changes in the hydrologic parameters have been noted in the original documentation. Should you have any questions concerning the revised analyses, please let me know.

Harry C. Millsaps

Harry C. Millsaps
Hydraulic Engineer

Attachment

cc:
Barton E. Ambrose, ASTC (P)

Worksheet 4: Graphical Peak Discharge method

Project BWCD REACH #2 REV Inlet Hyd By [illegible] Date 11/10/88

Location Subarea #2 Checked ____ Date ____

Circle one: Present Developed

1. Data:

NOTE: D.A Revised From 0.34 mi² to 1.93 mi² Based on delineation on Aerial Photo & Compared to 7½ min USGS Quad Sheet.

Drainage area ..... A_m = 1.93 mi² (acres/640)

Runoff curve number .... CN_{24} = 80 (From worksheet 2) Wt. CN = (0.34)(76) + (1.59)(81) = 80, (See Original Documentation)

Time of concentration .. T_c = 0.90 [1] hr (From worksheet 3)

Rainfall distribution type = II (I, IA, II, III)

Pond and swamp areas spread throughout watershed ..... = 0 percent of A_m (— acres or mi² covered)

		Storm #1	Storm #2	Storm #3
2. Frequency	yr	100	25	10
3. Rainfall, P (24-hour)	in	3.70	2.80	2.20
4. Initial abstraction, I_a ..... (Use CN with table 4-1.)	in	0.500	0.500	0.500
5. Compute I_a/P		0.135	0.178	0.227
6. Unit peak discharge, q_u ..... (Use T_c and I_a/P with exhibit 4-II)	csm/in	370	350	340
7. Runoff, Q ..... (From worksheet 2).	in	1.80	1.10	0.68
8. Pond and swamp adjustment factor, F_p .... (Use percent pond and swamp area with table 4-2. Factor is 1.0 for zero percent pond and swamp area.)		—	—	—
9. Peak discharge, q_p ..... (Where $q_p = q_u A_m Q F_p$)	cfs	1285	743	446

[1] Tc Assumed same as Subarea #1 as calculated in Original Inlet Hydrology dated 3/82

Worksheet 4: Graphical Peak Discharge method

Project RWCD REACH #2, REV Inlet Hyd By [illegible] Date 11/10/89

Location Subarea #2 Checked ____ Date ____

Circle one: (Present) Developed

1. Data:

NOTE; D.A REVISED From 0.34 mi² to 1.93 mi² Based on delineation on Aerial Photo as compared to 7½ min USGS Quad Sheet.

Drainage area ..... A_m = 1.93 mi² (acres/640)

Runoff curve number .... CN_{24} = 80 (From worksheet 2) Wt. CN = (0.34)(76) + (1.59)(81) = 80, (See Original Documentation)

Time of concentration .. T_c = 0.90 [1] hr (From worksheet 3)

Rainfall distribution type = II (I, IA, II, III)

Pond and swamp areas spread throughout watershed ..... = 0 percent of A_m (— acres or mi² covered)

		Storm #1	Storm #2	Storm #3
2. Frequency	yr	100	25	10
3. Rainfall, P (24-hour)	in	3.70	2.80	2.20
4. Initial abstraction, I_a ..... (Use CN with table 4-1.)	in	0.500	0.500	0.500
5. Compute I_a/P		0.135	0.178	0.227
6. Unit peak discharge, q_u ..... (Use T_c and I_a/P with exhibit 4-II)	csm/in	370	350	340
7. Runoff, Q ..... (From worksheet 2).	in	1.80	1.10	0.68
8. Pond and swamp adjustment factor, F_p .... (Use percent pond and swamp area with table 4-2. Factor is 1.0 for zero percent pond and swamp area.)		—	—	—
9. Peak discharge, q_p ..... (Where $q_p = q_u A_m Q F_p$)	cfs	1285	743	446

[1] Tc Assumed same as Subarea #1 as calculated in Original Inlet Hydrology dated 3/82

United States
Department of
Agriculture

Soil
Conservation
Service

Water Resources Planning Staff
Suite 326, Arizona Title Bldg.
111 West Monroe Street
Phoenix, Arizona 85003

FILE

Subject: 390-PDM - Hydrologic Analysis, RWCD Diversion, Located in Sections 16, 21 & 28, T3S, R6E.

Date: December 15, 1981

To: T. Niles Glasgow, ASTC (WR), Phoenix, AZ

A hydrologic analysis has been completed to determine the effect of installing an earthen levee in Sections 16, 21 and 28, T3S, R6E to divert flow into the proposed RWCD Floodway. The levee will increase the ~~drainage area to the~~ floodway by about 2.03 square miles at X-Section 190. This gives a revised drainage area at this X-Section of 258.92 square miles as compared to 256.89 used in the original design analysis.

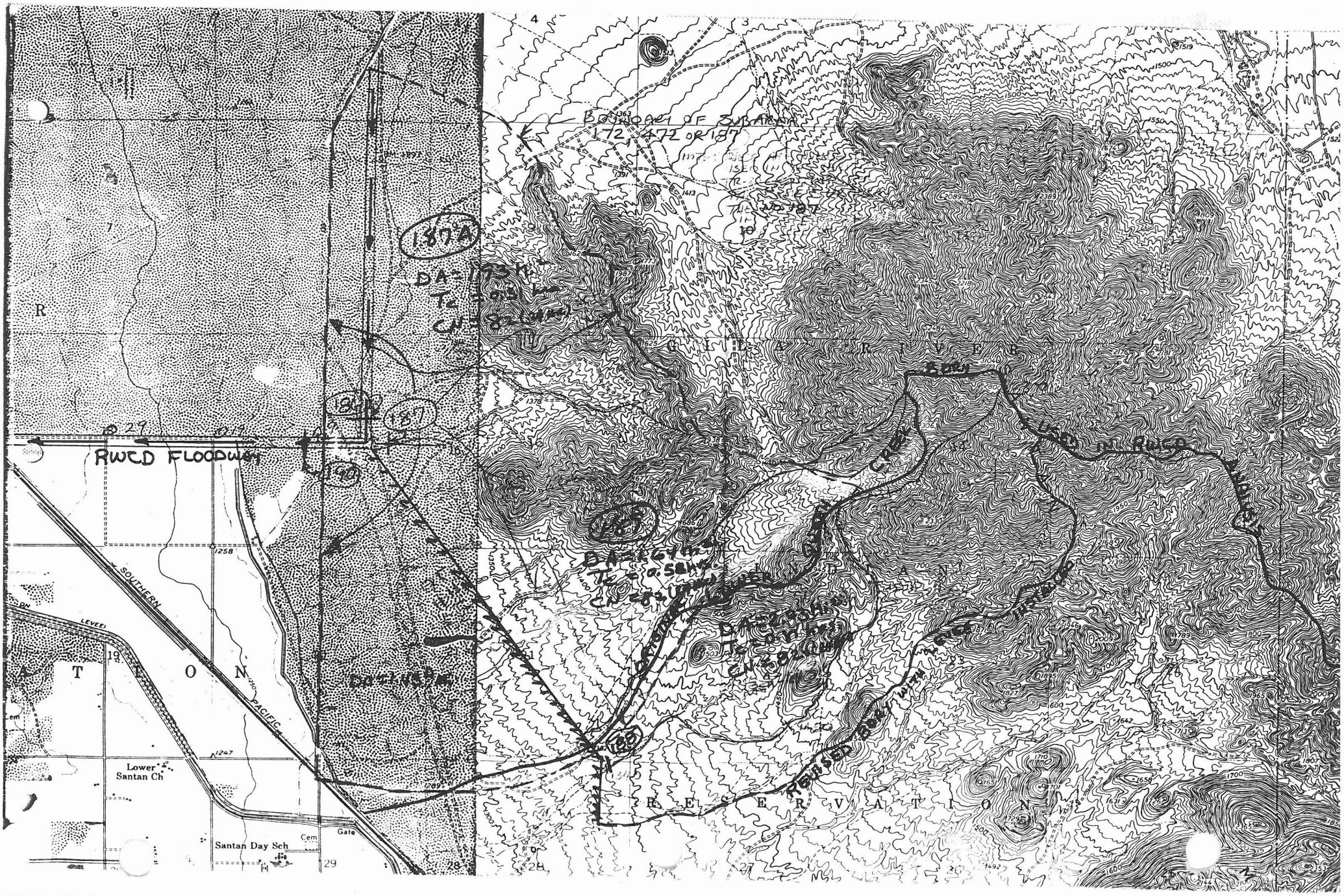
Discuss w/ Pat.

The net effect of the increased drainage area is to increase the design peak at the subject X-Section by about 50 CFS, i.e. from 8659 CFS to 8708 CFS. This limited effect results from the fact that the runoff from the drainage area above the levee enters the floodway and is dissipated before the peak from the upstream area reaches the point in question. Thus, the installation of the diversion should only have limited effect on the design of the RWCD Floodway.

The documentation has been given to Ralph Arrington, SCE, for use in the Final Design of the RWCD.

Harry C. Millsaps
Hydraulic Engineer

cc: Ralph Arrington, SCE, SCS, Phoenix, AZ
Sid Brase, Project Engineer, MCCFCD, Phoenix, AZ
John Weaver, Civil Engineer, WRPS, Phoenix, AZ


BOUNDARY OF SUBAREA
172, 472 OR 187
187A
DA=1.93 sq mi
Tc=0.5 hr
CN=82 (Urban)
187
RWCD FLOODWAY
GILA RIVER
RWCD
DA=1.64 sq mi
Tc=0.58 hr
CN=82 (Urban)
DA=1.93 sq mi
Tc=0.64 hr
CN=82 (Urban)
DA=2.44 sq mi
SOUTHERN
PACIFIC
LEVEE
Lower
Santan Ch
Santan Day Sch
Cem
Gate
RESERVATION
REVISED BOUNDARY WITH RWCD

12-21-81

RWCD Diversion

Summary of Review of Analysis.

1. Existing channel capacity is adequate to accept diversion flow.

2. Side discharges to design inlet at Sta 1120+00± are being analyzed (Harry Mitsaps - TR 20 12-81) and should be available 1/82

— complete 1-14-82

The river basin planning staff is collecting resource information on the Colorado River Indian Reservation. About 12% of the soil survey work is done and about 30 water-measuring weirs were installed in delivery canals to measure project spills.

The Little Colorado River Basin study is nearing completion. Nine of the 12 working papers are completed and have been distributed to local agencies. The other three reports are in the final draft stage.

Assistance to Indians

In addition to the soil and rangeland survey assistance, the Navajo Tribe and SCS extended the range conservationist, Intergovernmental Personnel Act position through April 1982. This individual works through the Tribe's Division of Resources, Branch of Range Management. He provides assistance to Chapters, Districts and the Tribe on forming conservation districts. He has also provided direct assistance to individuals and Chapters in solving soil and water conservation problems.

PAUL
The TR20 Program for the Inlet Design for Diversion is in Computer 12/17/80 [illegible]

RWCD DIVERSION
T3S, R6E

An analysis was made to determine the affect on design peak discharge on the RWCD of installing a diversion in Section 16, 21 and 28 in T3S, R6E. This analysis consisted of measuring the additional drainage area that would be involved and determining how the runoff from this area would combine with that previously calculated for the RWCD at the point of intersection of the proposed diversion with the RWCD (i.e. @ X-Section 190, See map in documentation).

From the map it can be seen that during the original design analysis, (See Bob Bartels Alt #3, Rev, TR-20 Computer output) runoff from a 5.0 sq mile subarea labeled 187 was added to the RWCD flow originating from X-Section 186. These combined to give a total peak flow at X-Sect 190 of 8658 CFS.

From the map it will noted, however that only the runoff from about 1.93 sq miles of the 5.0 sq miles subarea actually enters the floodway above X-Sect 190. The remainder flows south-southwest by-passing the RWCD, although it.

could possibly be diverted into the RWCD at some point further downstream. This needs to be field check in order that side inlets can be designed to intercept this flow. Thus, to some extent, the required capacity as calculated at X-Sect 190 may be too large, because of the added drainage area. However, from a further analysis of the Design TR-20 output it can be seen that the effect of the added drainage area is very minor. Although the peak flow from subarea 187 itself is 1628 CFS there is only about 100 CFS added to the peak of the hydrograph originating above X-Sect 186. The reason for the minor effect ~~on the design peak~~ is the timing of the two respective hydrographs. The runoff from subarea 187 enters the RWCD ahead of the upstream flow and is almost dissipated before the peak from the upstream flow arrives.

The above description also explains the limited effect the 2.03 sq miles added in subarea 188 with the installation of the proposed diversion. With the diversion installed the peak at X-Sect 190 is increased from 8658 to 8708 or about 50 CFS. Again this is an over simplication of what actually happens, since

the runoff from the remaining portion of Subarea 187 (1.43 sq mile) would still by-pass the RWCD and would not enter the floodway until some point downstream, if at all.

So in summary, the 8700 CFS as used in the design of the RWCD for the reach in question should be adequate to carry any additional flow which might be added due to the installation of the levee diversion.

A second analysis was made to determine design discharges for the installation of an inlet structure at the point where the diversion intersects the RWCD. This analysis was made using the TR-20 program with point rainfall amounts, in reference to areal rainfall amounts used in determining the effect of the diversion on the RWCD design flow. Plots were developed for the 10, 25 and 100 year frequency storms. The results of the study can be noted in the TR-20 report dated Dec 1981.

Harry C Mullaney
12/17/81

RWCD ALT # 3, 100-YR DESIGN RUN, DATED NOV, 1974.
(W/O DIVERSION IN T35, R6E)

SUBROUTINE RUNOFF CROSS SECTION 187
AREA= 5.00 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.10

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	1628.505	(RUNOFF)
21.78	87.961	(RUNOFF)
23.77	75.327	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1602 CFS-HRS= 3743.85 ACRE-FT= 309.39

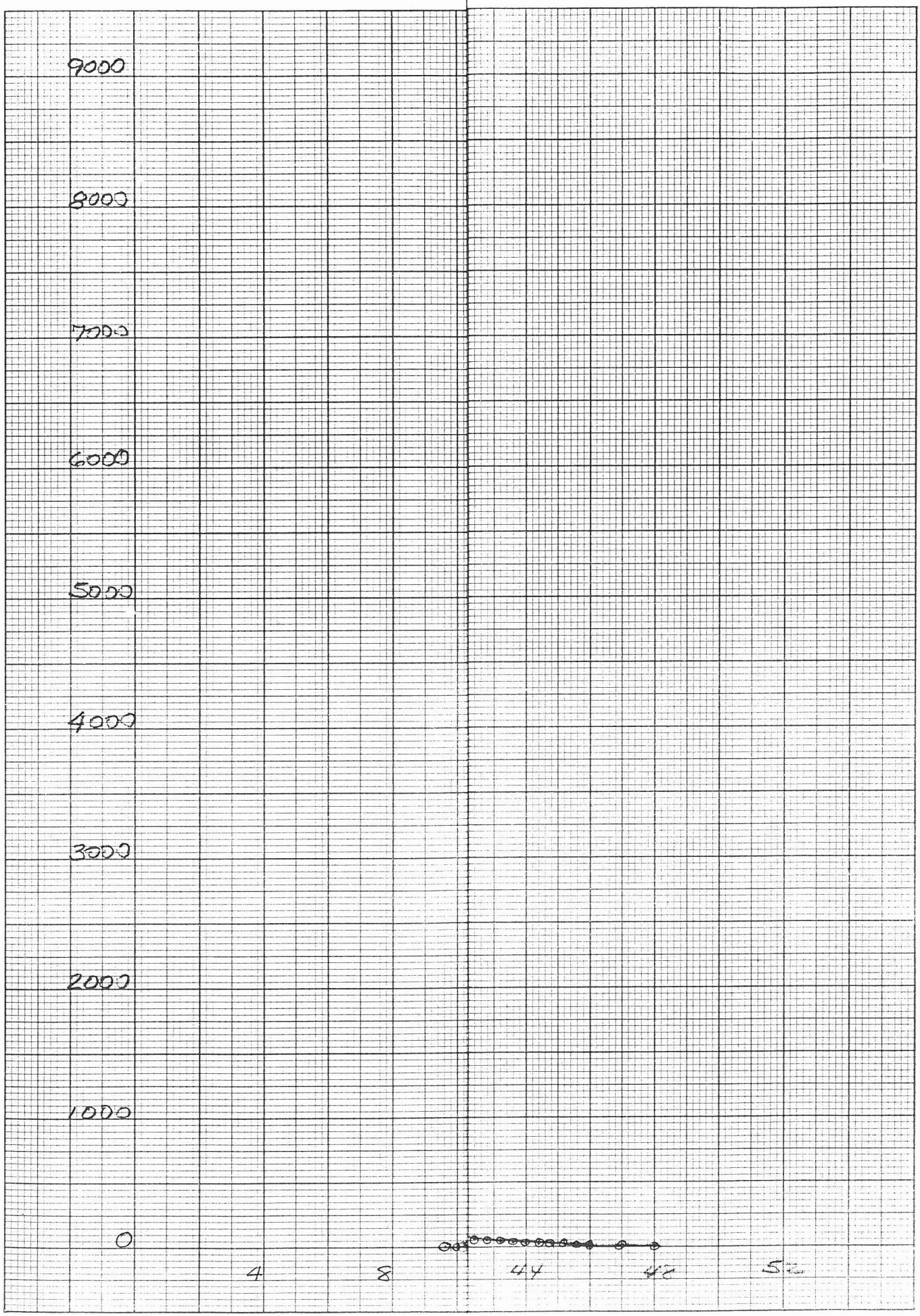
SUBROUTINE ADDHYD CROSS SECTION 190
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	1712.857	(NULL)
19.31	8658.668	(NULL)

HYDROGRAPH, TZERO= 0.0 DELTA T= 0.20 DRAINAGE AREA= 256.89

TIME											
0.0	DISCHG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.00	DISCHG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.00	DISCHG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.00	DISCHG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.00	DISCHG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
10.00	DISCHG	0.45	1.74	4.47	9.14	16.15	26.10	40.36	60.71	117.18	298.62
12.00	DISCHG	687.83	1194.84	1586.13	1708.48	1615.62	1448.11	1330.88	1329.56	1411.10	1558.28
14.00	DISCHG	1753.89	1972.03	2179.82	2360.24	2506.32	2609.41	2685.16	2754.27	2836.05	2953.34
16.00	DISCHG	3119.06	3337.79	3611.84	3941.21	4319.60	4741.74	5204.24	5700.64	6219.90	6742.20
18.00	DISCHG	7240.52	7686.32	8053.85	8328.80	8511.40	8613.55	8655.03	8656.55	8635.50	8603.95
20.00	DISCHG	8567.88	8530.16	8491.68	8452.04	8410.71	8367.39	8323.02	8279.23	8235.96	8191.36
22.00	DISCHG	8142.81	8088.26	8026.47	7956.08	7875.80	7784.72	7683.64	7574.71	7459.57	7338.80
24.00	DISCHG	7212.93	7082.06	6946.60	6809.01	6673.96	6545.02	6423.90	6310.00	6201.32	6096.28
26.00	DISCHG	5993.21	5890.34	5786.66	5681.43	5574.12	5464.66	5353.16	5239.58	5123.96	5006.32
28.00	DISCHG	4886.31	4763.82	4638.72	4510.92	4380.63	4248.01	4113.28	3976.76	3838.60	3699.00
30.00	DISCHG	3558.26	3416.89	3275.71	3135.73	2998.06	2863.79	2733.76	2608.51	2488.31	2373.14
32.00	DISCHG	2262.88	2157.33	2056.27	1959.54	1866.95	1778.36	1693.60	1612.52	1534.94	1460.67
34.00	DISCHG	1389.51	1321.31	1255.91	1193.18	1133.02	1075.34	1020.07	967.15	916.49	868.04
36.00	DISCHG	821.70	777.39	735.01	694.47	655.67	618.49	582.83	548.61	515.72	484.11
38.00	DISCHG	453.71	424.47	396.37	369.38	343.49	318.71	295.04	272.48	251.04	230.73
40.00	DISCHG	211.55	193.50	176.57	160.75	146.02	132.34	119.70	108.05	97.34	87.54
42.00	DISCHG	78.59	70.44	63.05	56.35	50.30	44.85	39.95	35.55	31.60	28.08
44.00	DISCHG	24.92	22.11	19.60	17.36	15.37	13.60	12.02	10.62	9.38	8.27
46.00	DISCHG	7.29	6.42	5.65	4.96	4.35	3.82	3.34	2.92	2.54	2.22
48.00	DISCHG	1.93	1.68	1.46	1.27	1.10	0.95	0.82	0.71	0.61	0.52
50.00	DISCHG	0.45	0.38	0.32	0.27	0.23	0.19	0.15	0.12	0.10	0.07
52.00	DISCHG	0.05	0.04	0.03	0.01	0.0					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 0.6830 CFS-HRS= 113226.63 ACRE-FT= 9357.05



K+E 10 X 10 TO ½ INCH 47 1320
10 X 15 INCHES MADE IN U.S.A.
KEUFFEL & ESSER CO.

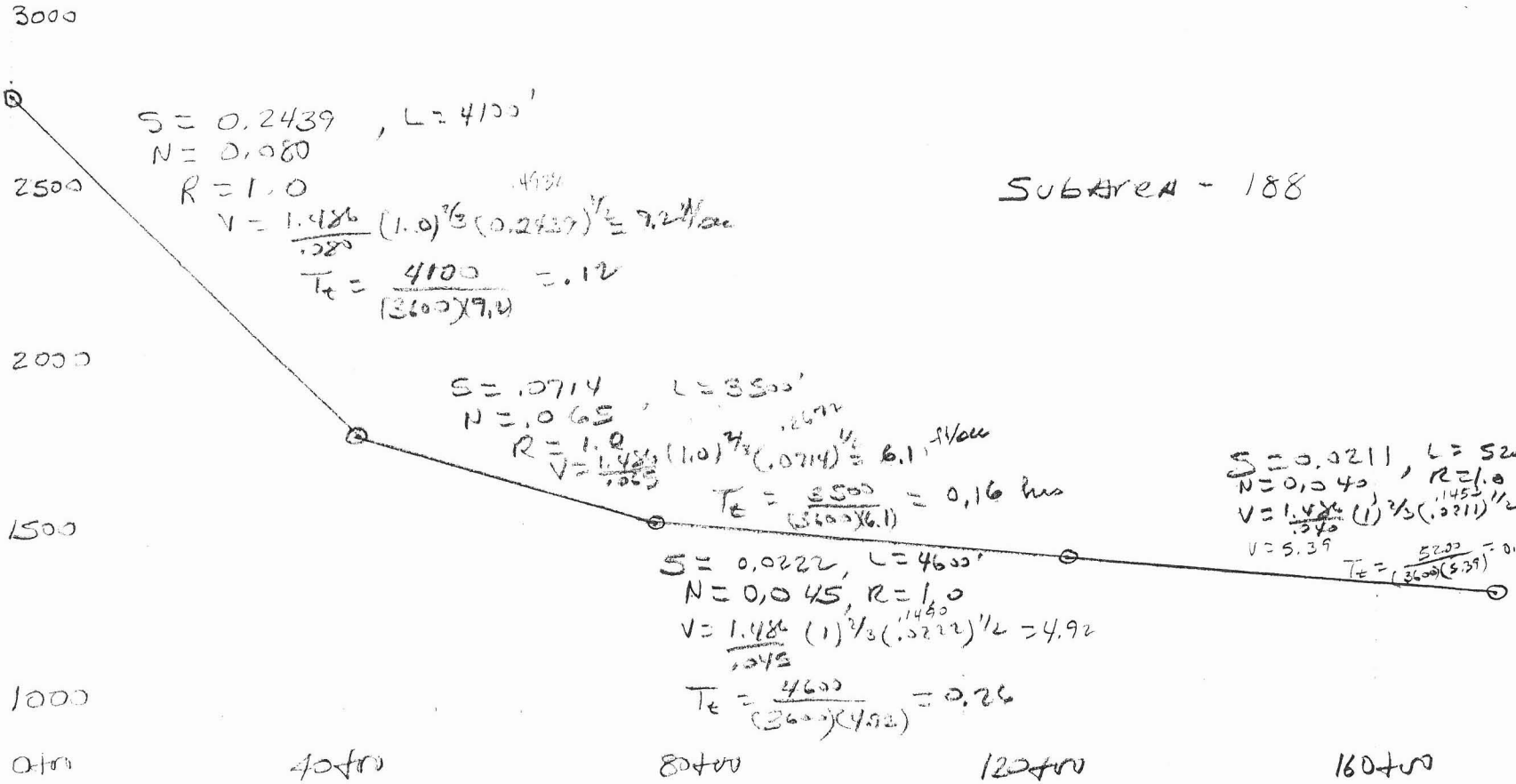
ARIZ

~~Kim~~ 12/3/81

RWCD - DIVERSION IN T 3S, R6E

CHANNEL PROFILE & T_c CALC.

SUBAREA - 188



$S = 0.2439$, $L = 4100'$
$N = 0.080$
$R = 1.0$
$V = \frac{1.486}{.080}(1.0)^{2/3}(0.2439)^{1/2} = 9.24$ ft/sec
$T_t = \frac{4100}{(3600)(9.4)} = .12$

$S = .0714$, $L = 3500'$
$N = .065$
$R = 1.0$
$V = \frac{1.486}{.065}(1.0)^{2/3}(.0714)^{1/2} = 6.1$ ft/sec
$T_t = \frac{3500}{(3600)(6.1)} = 0.16$ hrs

$S = 0.0222$, $L = 4600'$
$N = 0.045$, $R = 1.0$
$V = \frac{1.486}{.045}(1)^{2/3}(.0222)^{1/2} = 4.92$
$T_t = \frac{4600}{(3600)(4.92)} = 0.26$

$S = 0.0211$, $L = 5200'$
$N = 0.040$, $R = 1.0$
$V = \frac{1.486}{.040}(1)^{2/3}(.0211)^{1/2}$
$V = 5.39$
$T_t = \frac{5200}{(3600)(5.39)} = 0.27$

$T_c = 0.12 + 0.16 + 0.26 + 0.27 = 0.81$ hrs.

$V_{avg} = \frac{17400}{(3600)(.81)} = 5.96$ ft/sec

NOTE: KIRPICH FORMULA

$T_c = \frac{L^{1.15}}{(7700)(H)^{0.38}} = \frac{(17400)^{1.15}}{(7700)(1460)^{.38}} = \frac{75,272}{(7700)(5.94)} = 0.61$ hours

Rec. Only

where $L = 17,400'$
$H = 1460'$

AR12 RWCD - DIVERSION IN T3S, R6E

Hm 12/3/81

CHANNEL PROFILE DATA FOR Tc CALC.

ELEV	Δ ELEV (FT)	Δ DIST (FT.)	STA.	SLOPE
2800			0+00	
	1000	400		0.2439
1800			41+00	
	250	3500		0.0714
1550			76+00	
	100	4600		0.0222
1450			122+00	
	110	5200		0.0211
1340			174+00	
	1460'	17,400		

RWCD FLOODWAY

ADDITIONAL DRAINAGE AREA DUE TO CONSTRUCTION OF LEVEE IN SECTIONS 17, 21 & 28, T3S, R6E (SEE MAP FROM CHANDLER HEIGHTS, ARIZ, 7½-MINUTE USGS QUAD SHEET, SCALE 1:24000) USED SMALL BLACK PLANIMETER NO. 108574

SUBAREA 188	106.83	20.99	35.18
	92.64	6.83	20.99
	14.19	14.16	14.19

AVG = 14.17 X 0.1435 = 2.03 MI²

ARIZ RWCD - DIVERSION - T3S, R6E

Hem 12/17/81

SUB-DRAINAGE AREAS & Tc'S FOR DESIGN OF INLET AT POINT WHERE PROPOSED RWCD TURNS DVE WEST ON INDIAN RES.

	85.48	96.94	108.41
SUBAREA 189	74.06	85.48	96.94
	11.42	11.46	11.47

$DA = 11.45 \times 0.1435 = 1.64\ Mi^2$

$T_c = \frac{L}{3600V} = \frac{12,500}{(3600)(6)}$ 1/ $= 0.58$ hrs.

	21.88	35.34	48.74
SUBAREA 187A	08.41	21.88	35.34
	13.47	13.46	13.49

$DA = 13.44 \times 0.1435 = 1.93\ Mi^2$

$T_c = \frac{L}{3600V} = \frac{6600}{(3600)(6)} = 0.31$ hrs

1/ Avg V = 6.0 ft/sec based on calc for Subarea 188 See D.C.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

7/81
File Code; ADS-120

COMPUTER ROOM WORK ORDER REQUEST

REQUESTED BY: HARRY MILLSAPS
DATE REQUESTED: 12/4/81

STAFF: WRPS
DATE NEEDED: 12/8/81

ACCOUNT INFO:
PRIORITY: ✓ HIGH ___ MEDIUM ___ LOW

ACTIVITY CODE: 35

APPROVED BY: _____ Staff Supervisor

FINANCIAL PROJECT: 208

CLASS CODE:
CONCURRED: _____ ADP Coordinator

LOCATION CODE: 2275

****

COMPUTER CENTER TO BE USED:

X FCCC ___ AMES ___ OTHER

___ WCC ___ HARRIS

FILE NAME(S): (/ .)
(/ .)
(/ .)
(DES/TR220.RUND)
HQ SL 2511T

****

LOCATION OF DATA:

X ATTACHED
___ DISK FILE (SPECIFY NAME)
___ AT COMPR. CTR. (FCCC/WCC)
___ TAPE # ___

****

SPECIAL INSTRUCTIONS:

NOTE NUMBERING, in Sequence of Cards

****

IS DATA TO BE RETAINED FOR MORE THAN 30 DAYS?
___ YES ___ ON TAPE (FOR PERMANENT STORA
___ ON DISK (FREQUENT USE)
X NO
___ DELETE FILE(S)

****

FOR USE BY OPERATOR ONLY

DATE OF RUN: 12-4-81 (1st) | 2ND RUN 12-7-81

COST OF RUN: $.50 | $.50

SENT/RECD: 12-4-81 1404PM / 12-7-81 0753AM | 12-7-81 1027AM | 12-8-81 0806AM

STANDARD CONTROL FOR WATERSHED

S - 273
v. 2 - 68

Page ____ of ____

Watershed RWCD - DIVERSION (T35, R6E) Hydrologist Hum Date 12/3/81

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.										Put "1" in space						
6	RUNOFF	1					4	AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RESVOR	2			6		7	SURF. ELEV. AT T=0, FT.									
6	REACH	3			7		5	LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	RUNOFF	1	188				6	AREA, SQ. MI. 2.03	RUNOFF CURVE NO. 82.	TIME OF CONCENTRATION, HRS. 0.81	1	1		1		1	100
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	DIVERT	6			INPUT	OUTPUT 1	OUTPUT 2	OUTPUT 1 DISCHARGE, CFS									
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

Page ____ of ____

S - 273
v. 2 - 68

T3S, R6E

Watershed RWCO - DIVERSION Hydrologist Hem Date 12/3/81

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
~~6~~	~~RUNOFF~~	~~1~~					~~6~~										
								SURF. ELEV. AT T=0, FT.									
~~6~~	~~RESVOR~~	~~2~~			~~6~~		~~7~~										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	187		62 X		5	10000.	0.75		1	1		1		1	101
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
~~6~~	~~RUNOFF~~	~~1~~					~~6~~										
6	ADDHYD	4	190		5	6	7				1	1		1		1	102
~~6~~	~~SAVMOV~~	~~5~~															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS									
~~6~~	~~OUTPUT~~	~~6~~															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									103

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

SCS-ENG-Z/...
Rev. 5-73

U. S. DEPARTMENT OF ...ICULTURE
SOIL CONSERVATION SERVICE

MODIFY STANDARD CONTROL

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	XSECTN / STRUCTURE XSECTN NO.	XSECTN / STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION
7	INSERT	2						NOTE: The following cards are inserted following the XSECTN / STRUCTURE specified.									
6																	
6																	
6																	
6																	
7	ALTER	3						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be altered.									
6																	
6																	
6																	
6																	
7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted.									
6																	
6																	
6																	
6																	
7	LIST							NOTE: This card is used for printout of tabular data and standard control list that are currently effective.									104
7	UPDATE	1						NOTE: This card is used to make permanent changes of the library tape. Printout of tabular data follows changes.									
								NEW BASE FLOW, CFS OR VOLUME IN INCHES	PEAK TIME IN HOURS	BASE TIME IN HOURS							
7	BASEFLO	5															

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.

IMPORTANT: Modifications must be given in the order that they appear on the standard control list.

SCS-ENG-...
REV. 2-75

U. S. DEPARTMENT OF AGRICUL
SOIL CONSERVATION SERVICE

READ DISCHARGE HYDROGRAPH

T3S, R6E

Watershed RWCD - DIVERSION Hydrologist [illegible] Date 12/3/81

DATA CODE	TABLE NAME		DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	DATA FIELD #4	DATA FIELD #5	CARD NO./ IDENTIFICATION
			LOCATION					
7	READHD	8	6					108
			STARTING TIME, HRS.	TIME INCREMENT, HRS.	DRAINAGE AREA, SQ. MI.	BASE FLOW, CFS		
7	READHD	9	10.0	0.20	256.89	—		109
8			0.45	1.74	4.47	9.14	16.15	110
8			26.10	40.36	60.71	117.18	298.62	111
8			687.83	1194.84	1586.13	1708.48	1615.62	112
8			1448.11	1330.88	1329.56	1411.10	1558.28	113
8			1753.89	1972.03	2179.82	2360.24	2506.32	114
8			2609.41	2685.16	2754.27	2836.05	2953.34	115
8			3119.06	3337.79	3611.84	3941.21	4319.60	116
8			4741.74	5204.24	5700.64	6219.90	6742.20	117
8			7240.52	7686.32	8053.85	8328.80	8511.40	118
8			8613.55	8655.03	8656.55	8635.50	8603.95	119
8			8567.88	8530.16	8491.68	8452.04	8410.71	120
8			8367.39	8323.02	8279.23	8235.96	8191.36	121
8			8142.81	8088.26	8026.47	7956.08	7875.80	122
8			7784.72	7683.64	7574.71	7459.57	7338.80	122
8			7212.93	7082.06	6946.60	6809.01	6673.96	123
8			6545.02	6423.90	6310.00	6201.32	6096.28	124
8			5993.21	5890.34	5786.66	5681.43	5574.12	125
8			5464.66	5353.16	5239.58	5123.96	5006.32	126
8			4886.31	4763.82	4638.72	4510.92	4380.63	127
8			4248.01	4113.28	3976.76	3836.60	3699.00	128
9	ENDTBL							

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.

Enter successive entries left to right with first entry for starting time. Fill last row of data with last entry of table.

NOTE: This card must be the last card of this table.

SCS-ENG
REV. 2-70

U. S. DEPARTMENT OF AGRICUL
SOIL CONSERVATION SERVICE

T3S, R 6E

READ DISCHARGE HYDROGRAPH

Watershed RWCD- DIVERSION Hydrologist Hum Date 12/3/81

DATA CODE	TABLE NAME	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	DATA FIELD #4	DATA FIELD #5	CARD NO./ IDENTIFICATION
		IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.					
7	READHD 8	LOCATION					
7	READHD 9	STARTING TIME, HRS.	TIME INCREMENT, HRS.	DRAINAGE AREA, SQ. MI.	BASE FLOW, CFS		
		Enter successive entries left to right with first entry for starting time. Fill last row of data with last entry of table.					
8		3558.26	3416.89	3275.71	3135.73	2998.06	129
8		2863.79	2733.76	2808.51	2488.31	2373.14	130
8		2262.88	2157.33	2056.27	1959.54	1866.95	131
8		1778.36	1693.60	1612.52	1534.94	1460.67	132
8		1389.51	1321.31	1255.91	1193.18	1133.02	133
8		1075.34	1020.07	967.15	916.49	868.04	134
8		821.70	777.39	735.01	694.47	655.67	135
8		618.49	582.83	584.61	515.72	484.11	136
8		453.71	424.47	396.37	369.38	343.49	137
8		318.71	295.04	272.48	251.04	230.73	138
8		211.55	193.50	176.57	160.75	146.02	139
8		132.34	119.70	108.05	97.34	87.54	140
8		78.59	70.44	63.05	56.35	50.30	141
8		44.85	39.95	35.55	31.60	28.08	142
8		24.92	22.11	19.60	17.36	15.37	143
8		13.60	12.02	10.62	9.38	8.27	144
8		7.29	6.42	5.65	4.96	4.35	145
8		3.82	3.34	2.92	2.54	2.22	146
8		1.93	1.68	1.46	1.27	1.10	147
8		0.95	0.82	0.71	0.61	0.52	148
8		0.45	0.38	0.32	0.27	0.23	149
9	ENDTBL	NOTE: This card must be the last card of this table.					152
		0.19	0.15	0.12	0.10	0.07	150
		0.05	0.04	0.03	0.01	0.0	151

NOTE NUMBER

EXECUTIVE CONTROL FOR WATERSHED

T35, R6E

SCS - 274
Rev. 2-68

Watershed RWCD - DIVERSION Hydrologist ~~Hem~~ Date 12/3/87

DATA CODE	OPERATION NAME	OPERATION NO.	FROM XSECTN OR STRUCT	THRU (1) XSECTN OR STRUCT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	RAIN TABLE NO.	AMC	ALTERNATE NO.	STORM NO.	CARD NO. / IDENTIFICATION
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							
					MAIN TIME INCREMENT, HRS. (This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed)							
7	INCREM	6			0.20							105
7	COMPUT	7	188	187	STARTING TIME, HRS. 0.0	RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall) 2.80	RAINFALL DURATION, HRS. 1.00	2	2	03	01	106
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards							107
7	COMPUT	7	190	190	0.0	2.80	1.00	2	2	03	01	153
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards							154
7	COMPUT	7										
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards							
7	COMPUT	7										
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards							
	ENDJOB	2			NOTE: This card terminates the entire watershed program							155

24-hr WS TYPE II

NOTE: NUMBERING INSERT READ DISCHARGE HYD

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control list having the XSECTN / STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN / STRUCT under THRU. Two or more COMPUT cards in series will normally repeat successive parts of the standard control list.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 20, 1964

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

7/81
File Code: ADS-120

COMPUTER ROOM WORK ORDER REQUEST

REQUESTED BY: Harry C. Millsaps
DATE REQUESTED: 12/17/81

STAFF: WRPS
DATE NEEDED: 1/11/82

ACCOUNT INFO:
PRIORITY: ___ HIGH ___ MEDIUM X LOW

ACTIVITY CODE: 35
APPROVED BY: [signature] Staff Supervisor

FINANCIAL PROJECT: 208

CLASS CODE: 0
CONCURRED: [signature] ADP Coordinator

LOCATION CODE: 2275

****

COMPUTER CENTER TO BE USED:

X FCCC ___ AMES _____ OTHER

___ WCC ___ HARRIS

FILE NAME(S): (DES/TR20.T35)
(/ .)
(/ .)
(/ .)

****

LOCATION OF DATA:

X ATTACHED
___ DISK FILE (SPECIFY NAME)
___ AT COMPR. CTR. (FCCC/WCC)
___ TAPE # ___

****

SPECIFY INSTRUCTIONS: TITLE THIS RUN "RWCD INLET DESIGN DIVERSION (T3S, R6E)"

****

IS DATA TO BE RETAINED FOR MORE THAN 30 DAYS? ___ YES ___ ON TAPE (FOR PERMANENT STOR
___ ON DISK (FREQUENT USE)
X NO
___ DELETE FILE(S)

****

FOR USE BY OPERATOR ONLY
DATE OF RUN: 12-27-81
COST OF RUN: $.61
SENT/RECD: 12-27-81 / 12-28-81

STANDARD CONTROL FOR WATERSHED

S - 273
v. 2 - 68

Page ___ of ___

Watershed RWCO DIVERSION ET35, RGE) INLET DESIGN Hydrologist Hzm Date 12/17/81

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1		1			6										
								SURF. ELEV. AT T=0, FT									
6	RESVOR	2			6		7										
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		8										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	182				5	2.03	82.	0.81	1	1		1		1	100
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA																

NOTE: This card is to be used only at end of all standard control [illegible]

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

Page ____ of ____

S - 273
v. 2 - 68

Watershed: Ruco - Diversion Hydrologist: Hum Date: 12/17/81

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE SECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH FT	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		5										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	129				6	1.64	82.	0.58	1	1		1		1	101
6	ADDHYD	4			5	6	7				1	1		1		1	102
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					INPUT	OUTPUT1	OUTPUT2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA																

NOTE: This must be the last card of all standard control cards.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

Page ____ of ____

S - 273
v. 2 - 68

Watershed RUNCO - DIVERSION Hydrologist Hem Date 12/17/81

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.										Put "1" in space						
6	RUNOFF	1		1			6										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RESVOR	2			6		7	SURF. ELEV. AT T=0, FT.									
6	REACH	3	187		7		5	LENGTH FT. 10000.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.75		1	1		1		1	103
	Note this location 187A							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	187				6	1.93	82.	0.31	1	1		1		1	104
6	ADDHYD	4	190		5	6	7				1	1		1		1	105
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									106

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 20, 1963

MODIFY STANDARD CONTROL

SCS - 275
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	XSECTN STRUCTURE XSECTN NO	XSECTN STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.

IMPORTANT: Modifications must be given in the order that they appear on the standard control list.

DATA CODE	OPERATION NAME	OPERATION NO.	XSECTN STRUCTURE XSECTN NO	XSECTN STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION
7	INSERT	2						NOTE: The following cards are inserted following the XSECTN STRUCTURE specified									
6																	
6																	
6																	
7	ALTER	3						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be altered									
6																	
6																	
6																	
6																	
7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted									
6																	
6																	
6																	
6																	
7	LIST							NOTE: This card is used for printout of tabular data and standard control list that are currently effective									1 67
7	UPDATE	1						NOTE: This card [illegible] printout of library tape follows changes									
7	BASFLOW	5						NEW BASE FLOW, CFS	NOTE: This card normally precedes a COMPUT card								

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 20, 1964

EXECUTIVE CONTROL FOR WATERSHED

SCS - 274
Rev. 2-68

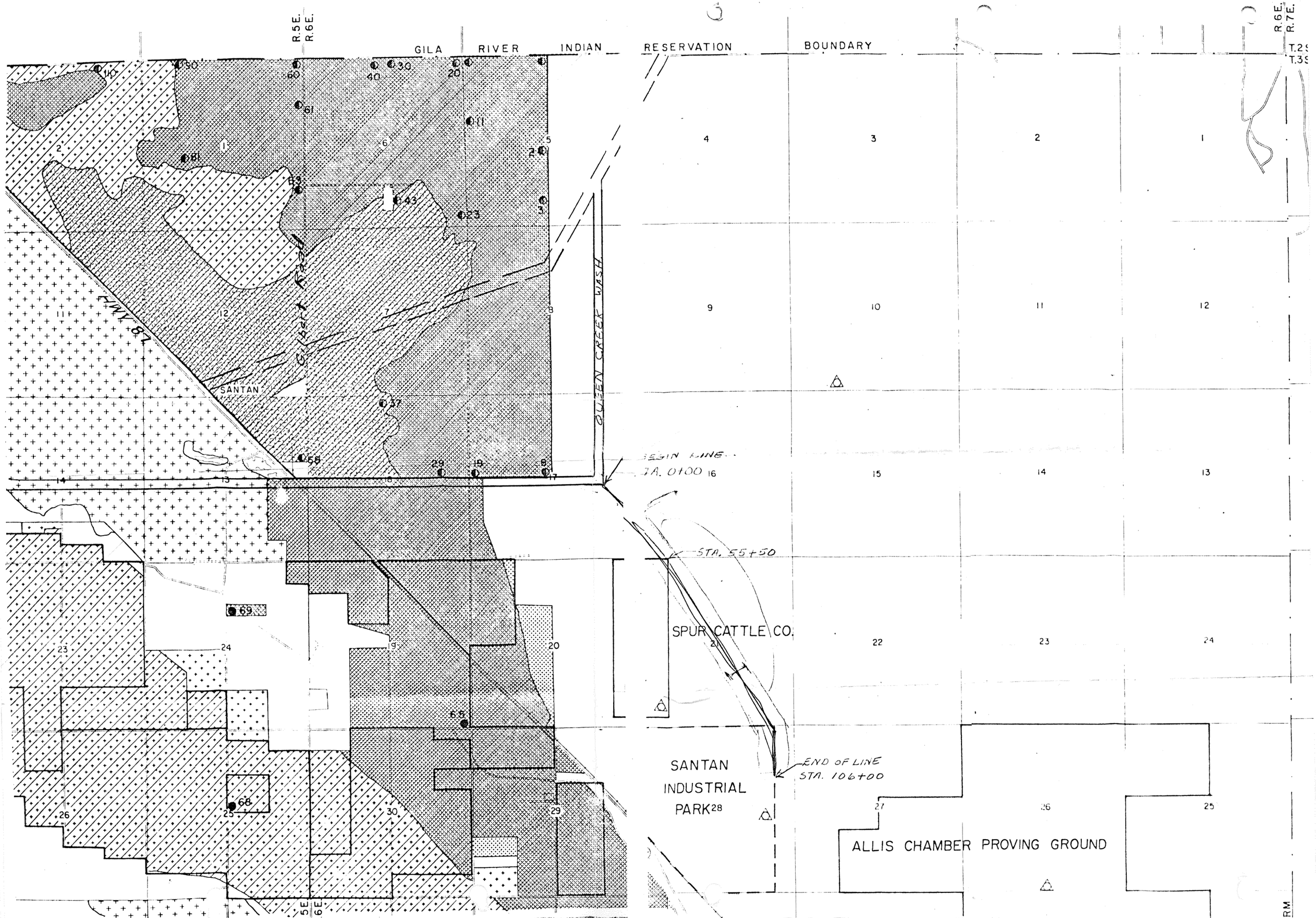
Watershed RWCD DIVERSION Hydrologist Hem Date 12/17/81

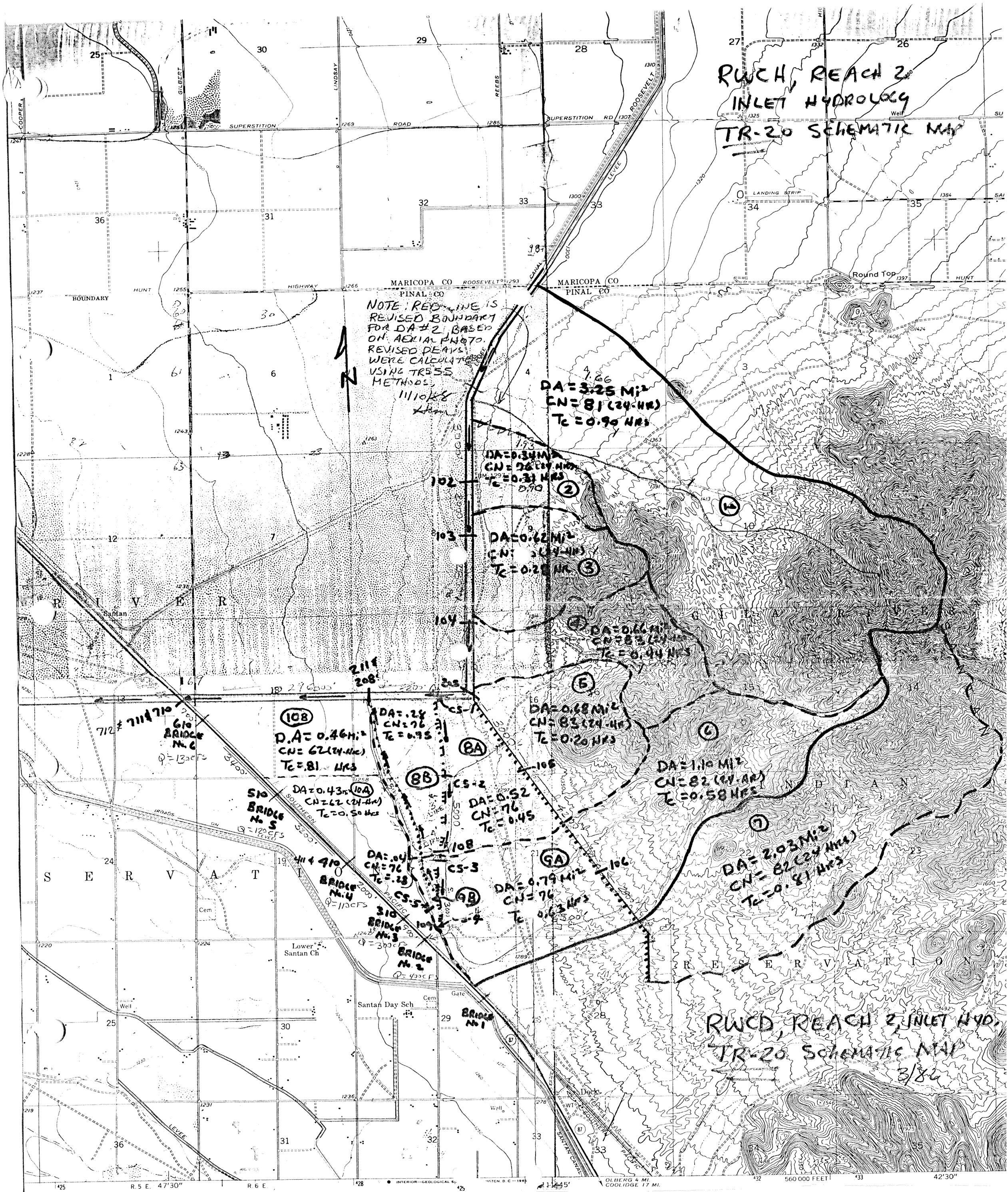
DATA CODE	OPERATION NAME	OPERATION NO.	FROM XSECTN OR STRUCT	THRU (1) XSECTN OR STRUCT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	RAIN TABLE NO.	AMC	ALTERNATE NO.	STORM NO.	CARD NO./ IDENTIFICATION
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							
					MAIN TIME INCREMENT, HRS.	(This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed.)						
7	INCREM	6			0.20							108
			FROM	THRU (1)	STARTING TIME, HRS.	100-YR RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall)	RAINFALL DURATION, HRS.					
7	COMPUT	7	188	190	0.0	3.70 ‖	1.00	2	2	03	01	109
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							110
						25-YR						
7	COMPUT	7	188	190	0.0	2.80 ‖	1.00	2	2	03	01	111
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							112
						10-YR						
7	COMPUT	7	188	190	0.0	2.20 ‖	1.00	2	2	03	01	113
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							114
~~7~~	~~COMPUT~~	~~7~~										
	~~ENDCMP~~	~~1~~			~~NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT~~							
	ENDJOB	2			NOTE: This card terminates the entire watershed program.							145

‖ NOTE: These are POINT RAINFALL AMOUNTS and Not reduced for Area as was done for Subarea 187 in Barton's ALT-2 (RW) RWCD DESIGN Run. This Run is for Design of INLET STR. at X-Sect 187 and Total DA is only 5.6 Mi.²

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control list having the XSECTN / STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN / STRUCT under

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 20, 1966


R.5E.
R.6E.
GILA RIVER INDIAN RESERVATION BOUNDARY
R.6E.
R.7E.
T.2S
T.3S
HWY 87
SANTAN
GILA RIVER
QUEEN CREEK WASH
BEGIN LINE
STA. 0+00
STA. 55+50
SPUR CATTLE CO.
SANTAN INDUSTRIAL PARK
END OF LINE
STA. 106+00
ALLIS CHAMBER PROVING GROUND


RWCD, REACH 2
INLET HYDROLOGY
TR-20 SCHEMATIC MAP
NOTE: RED LINE IS REVISED BOUNDARY FOR DA #2, BASED ON AERIAL PHOTO. REVISED DA'S WERE CALCULATED USING TR55 METHODS.
11/10/88
DA=3.25 Mi²
CN=81 (24-HR)
Tc=0.90 HRS
DA=0.34 Mi²
CN=76 (24-HR)
Tc=0.31 HRS
DA=0.62 Mi²
DA=0.66 Mi²
CN=83 (24-HR)
Tc=0.94 HRS
DA=0.68 Mi²
CN=83 (24-HR)
Tc=0.20 HRS
DA=1.10 Mi²
CN=82 (24-HR)
Tc=0.58 HRS
DA=2.03 Mi²
CN=82 (24-HR)
Tc=0.81 HRS
DA=0.79 Mi²
CN=76
Tc=0.43 HRS
DA=0.46 Mi²
CN=62 (24-HR)
Tc=.81 HRS
DA=0.43 Mi²
CN=62 (24-HR)
Tc=0.50 HRS
DA=0.52
CN=76
Tc=0.45
DA=.24
CN=76
Tc=0.95
DA=.04
CN=76
Tc=.28
BRIDGE No. 1
BRIDGE No. 2
BRIDGE No. 3
BRIDGE No. 4
BRIDGE No. 5
BRIDGE No. 6
CS-1
CS-2
CS-3
CS-4
CS-5
SUPERSTITION ROAD
SUPERSTITION RD
GILBERT
LINDSAY
REEBS
ROOSEVELT
LEVEE
CANAL
MARICOPA CO
PINAL CO
HUNT HIGHWAY
BOUNDARY
LANDING STRIP
Round Top
RIVER
Santan
SERVATION
RESERVATION
GUILA
INDIAN
Lower Santan Ch
Santan Day Sch
SOUTHERN PACIFIC
SANTAN CANAL
Dock
Well
Cem
Gate
R. 5 E. 47'30"
R. 6 E.
560 000 FEET
42'30"
OLBERG 4 MI.
COOLIDGE 17 MI.
INTERIOR—GEOLOGICAL SURVEY
WASHINGTON, D. C.—1961

11/10/88

RWCD REACH-2 (INLET HYD.)
REVISED DRAINAGE AREA
Subareas #1 & 2

Total Area 1+2 as Originally Determined
For Inlet Hydrology dated 3/82 = 3.25 + 0.34 = 3.59 mi²

Revised D.A for Subarea #2 (Small Black Planimeter)
USGS 7½ min Quad)

65.62	79.07	92.43	
52.18	65.62	79.07	Avg = 13.41 X .1435
13.44	13.44	13.36	D.A = 1.93 mi²

Therefore, Revised D.A for Subarea #1

D.A = 3.59 − 1.93 = 1.66 mi²

11/17/88

Subarea #2
EAST MARICOPA FLOODWAY
USING 1" = 400' Aerial Photo & Billing Planimeter

179.923		
85.283	175.176	170.131
94.690	79.971	75.176
	95.205	94.955

94.950 X .0057392 X 3.65 = 1.99 mi²

As Compared to 1.93 mi²
From 7½ min quad sheet

HM

REACH -2 (RWCD INLET DESIGN)

SUBDRAINAGES EAST & SOUTH OF FLOODWAY

(NOTE, subareas as used in the RWCD Design Analysis have been further subdivided and renumbered as shown on D.A. Map for this Analysis.)

Sub Area 1

38.33	61.00	83.51	106.21
15.60	38.33	61.00	83.51
22.63	22.67	22.51	22.70

22.63 □" X .1435 = 3.25 Mi²

~~Sub Area 2~~

27.26	29.70	32.08	34.47
24.89	27.26	29.70	32.08
2.37	2.44	2.38	2.39

2.38 □" X .1435 = 0.34 Mi²

Sub Area 3

38.82	43.15	47.42	51.78
34.47	38.82	43.15	47.42
4.35	4.33	4.27	4.36

4.35 □" X .1435 = 0.62 Mi²

Sub Area 4

6.32	10.96	15.67	20.26
1.70	6.32	10.96	15.67
4.62	4.64	4.71	4.59

4.64 □" X .1435 = 0.66 Mi²

VOID 11/17/88 D.A. for Subareas 1 & 2 are void due to re-delineation based on Grand Island Sheet of private ports portion of 6 D.A. & D.A. #2 contributing

Sub Area 5

24.98	29.66	34.37	
20.26	24.98	29.66	$4.71^{\square''} \times .1435 = 0.68\ Mi^2$
4.72	4.68	4.71	

Sub Area -6

~~41.97~~	49.64	57.32	64.99	
~~34.37~~	41.97	49.64	57.32	$7.67^{\square''} \times .1435 = 1.10\ Mi^2$
~~7.60~~	7.67	7.68	7.67	

Sub Area -7 = 2.03 Mi² (From previous study dated 12/81

Sub Area 8

95.58	101.12	6.68	
90.00	95.58	1.12	$5.56^{\square''} \times .1435 = 0.80\ Mi^2$
5.58	5.54	5.56	

Sub Area 8B $\left(\frac{0.5'' + 1.05''}{2}\right)(2.55'') = 1.98^{\square''} \times 0.1435 = 0.28\ Mi^2$

Sub Area 8 = 0.80
− Sub Area 8B = −.28
Sub Area 8A = 0.52

Sub Area -9

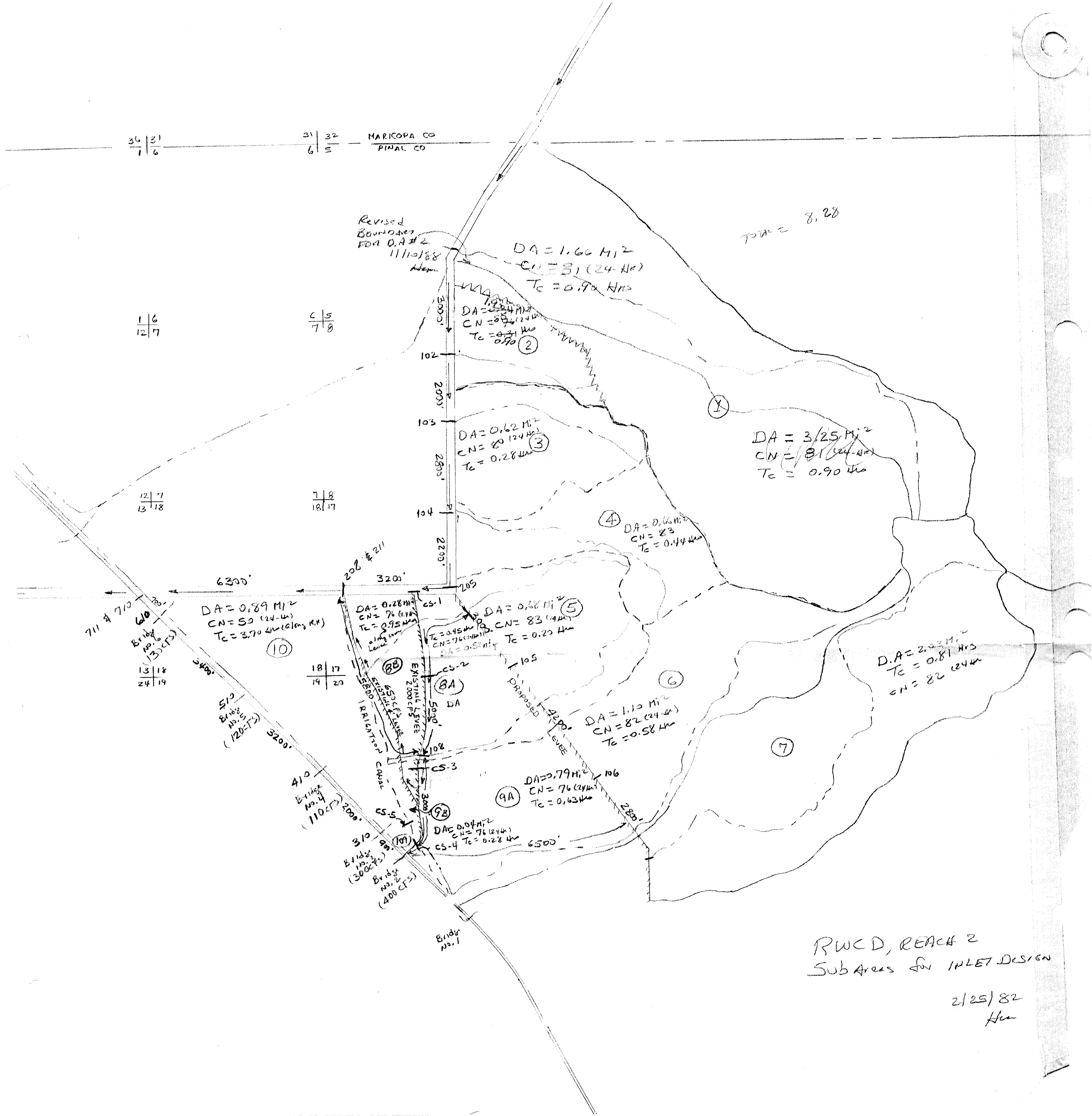
~~12.32~~	18.12	23.87	29.64	
~~6.68~~	12.32	18.12	23.87	$5.77^{\square''} \times .1435 = 0.83\ Mi^2$
~~5.64~~	5.80	5.75	5.77	

Sub Area 9b $= \left(\frac{0.5}{2}\right)(1.2) = 0.3^{\square''} \times .1435 = 0.04\ Mi^2$

Sub Area 9 = 0.83
− Sub Area 9B = −.04
Sub Area 9A = 0.79

Sub Area -10

35.86	42.02	48.22	54.35	
29.64	35.86	42.02	48.22	$6.18^{\square} \times .1435 = 0.89\ Mi^2$
6.22	6.16	6.20	6.13	



MARICOPA CO
PINAL CO
36 | 31
1 | 6
31 | 32
6 | 5
1 | 6
12 | 7
6 | 5
7 | 8
12 | 7
13 | 18
7 | 8
18 | 17
13 | 18
24 | 19
18 | 17
19 | 20
Revised Boundaries For D.A #2 11/10/88
TOTAL = 8.28
DA = 1.66 Mi2
CN = 81 (24-Hr)
Tc = 0.90 Hrs
DA = 3.25 Mi2
CN = 81 (24-Hr)
Tc = 0.90 Hrs
CN = 76 (24 Hr)
Tc = 0.90 Hrs
2
1
102
103
104
105
106
108
109
205
3000'
2000'
2800'
2200'
3200'
6300'
5000'
4200'
2800'
6500'
3000'
DA = 0.62 Mi2
CN = 80 (24 Hr)
Tc = 0.28 Hr
3
4
DA = 0.66 Mi2
CN = 83
Tc = 0.44 Hr
DA = 0.68 Mi2
CN = 83 (24 Hr)
Tc = 0.20 Hr
5
6
DA = 1.10 Mi2
CN = 82 (24 Hr)
Tc = 0.58 Hr
7
D.A = 2.03 Mi2
Tc = 0.81 Hrs
CN = 82 (24 Hr)
DA = 0.79 Mi2
CN = 76 (24 Hr)
Tc = 0.63 Hr
9A
9B
DA = 0.04 Mi2
CN = 76 (24 Hr)
Tc = 0.28 Hr
DA = 0.89 Mi2
CN = 50 (24-Hr)
Tc = 3.70 Hr (along R.R)
10
DA = 0.28 Mi2
CN = 76 (24 Hr)
Tc = 0.95 Hr
along Levee
Tc = 0.45 Hr
CN = 76 (24 Hr)
DA = 0.52 Mi2
8A
8B
DA
CS-1
CS-2
CS-3
CS-4
CS-5
208 & 211
EXISTING LEVEE
2000 CFS
650 CFS
EXISTING LEVEE
SRBDO IRRIGATION CANAL
PROPOSED LEVEE
711 & 710
610
700'
Bridge No. 6 (130 CFS)
3400'
510
Bridge No. 5 (120 CFS)
3200'
410
Bridge No. 4 (110 CFS)
2000'
310
900'
Bridge No. 3 (300 CFS)
Bridge No. 2 (400 CFS)
Bridge No. 1
RWCD, REACH 2
Sub Areas for INLET DESIGN
2/25/82

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

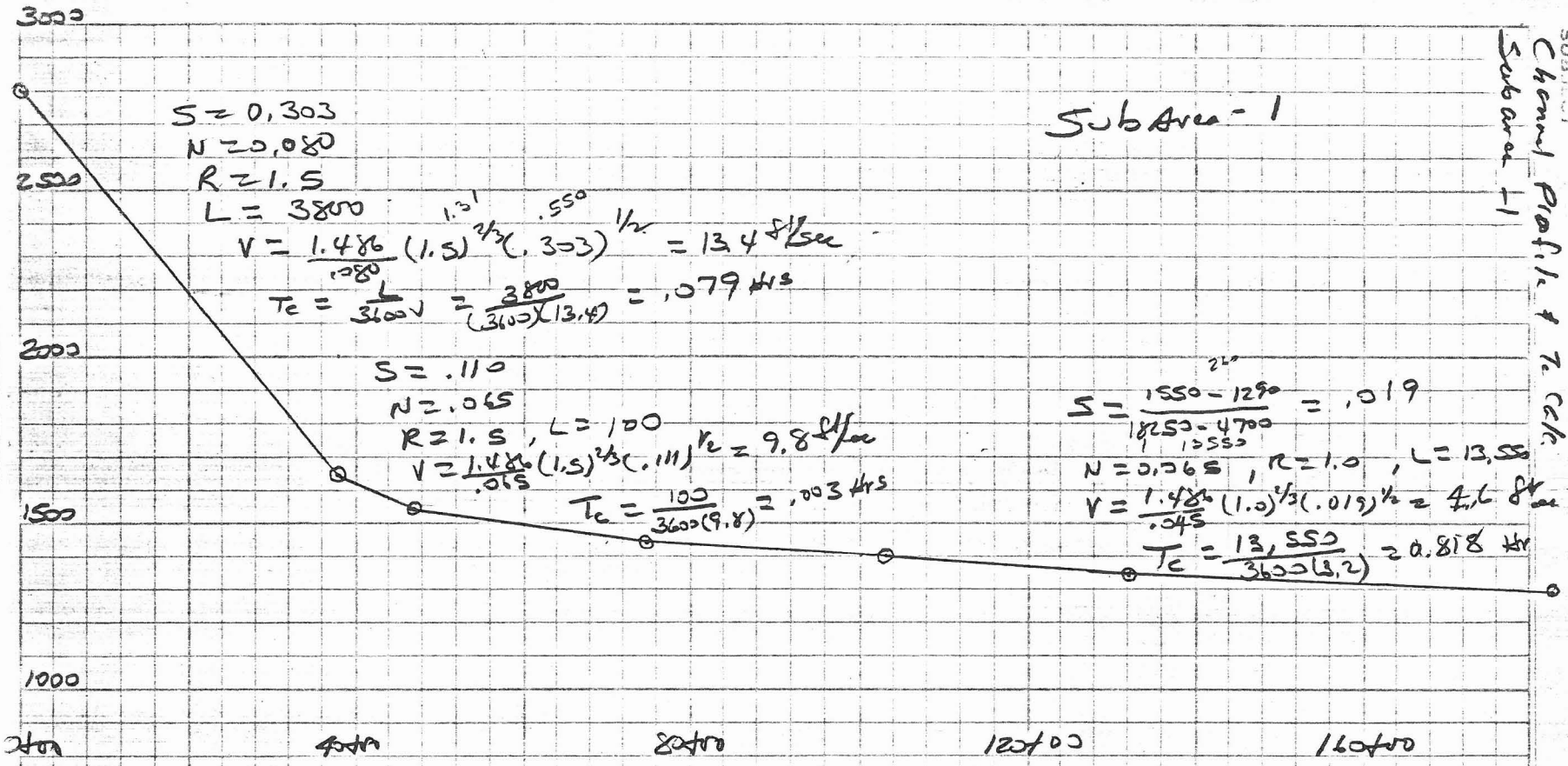
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE | BY Hom | DATE 3/2/82 | PROJECT Rutco, Reach -2, Inlet Hyd

SUBJECT Channel Profile & Tc calc. Subarea -1

CHECKED BY | DATE | JOB NO. | SHEET | OF

Sub Area - 1



$S = 0.303$
$N = 0.080$
$R = 1.5$
$L = 3800$

$V = \frac{1.486}{.080}(1.5)^{2/3}(.303)^{1/2} = 13.4$ ft/sec

$T_c = \frac{L}{3600V} = \frac{3800}{(3600)(13.4)} = .079$ Hrs

$S = .110$
$N = .065$
$R = 1.5$, $L = 100$

$V = \frac{1.486}{.065}(1.5)^{2/3}(.111)^{1/2} = 9.8$ ft/sec

$T_c = \frac{100}{3600(9.8)} = .003$ Hrs

$S = \frac{1550 - 1290}{18250 - 4700} = .019$

$N = 0.065$, $R = 1.0$, $L = 13,550$

$V = \frac{1.486}{.045}(1.0)^{2/3}(.019)^{1/2} = 4.6$ ft/sec

$T_c = \frac{13,550}{3600(4.2)} = 0.818$ Hrs

Total $T_c = 0.079 + .003 + 0.818 = 0.90$ Hrs (V = 5.6 ft/sec)

COMPUTATION SHEET
SCS ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE: Ariz
PROJECT: RWCD, REACH-2, INLET HYD.
BY: Hem
DATE: 3/2/82
CHECKED BY:
DATE:
SUBJECT: Channel Profile data for Tc Calc.
SHEET OF

Subarea -1

STA	ELEV	Δ Elev (ft)	Δ Dist (ft)	Slope		
0	2800					
		1150	3800	0.303	R=1.5	N=0.080
38+00	1650					
		100	900	0.111	R=1.5	N=0.065
47+00	1550					
		100	2800	.036	R=1.0	N=0.045
75+00	1450					
		50	2800	.018	R=1.0	N=0.045
103+00	1400					
		50	2950	.017	R=1.0	N=0.045
132+50	1350					
		60	5000	.012	R=1.0	N=0.045
182+50	1290					

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE: Arizona
PROJECT: RWCD, Reach-2, INlet Hyd
BY: Hm
DATE: 3/2/82
CHECKED BY:
DATE:
SUBJECT: Tc Calc.
SHEET OF

Subarea -2

$S = \frac{1350 - 1296}{4200} = 0.013$, $N = 0.045$, $R = 1.0$

$V = \frac{1.486}{.045}(1.0)^{2/3}(0.013)^{1/2} = 3.76$ ft/sec

$T_c = \frac{4200}{(3600)(3.76)} = 0.31$ Hrs.

JDID to revision in D.A. on 11/10/88. The D.A. was based on Tc = 0.90 which is 5 mins. The flow length & slope of the flow length & slope of the subarea #1 revised for subarea #3 but for subarea #1 to D.A. map 11/14/88 Hm

Subarea - 3

$S = \frac{1800 - 1400}{1800} = .222$ $N = 0.065$, $R = 1.5$

$V = \frac{1.486}{.065}(1.5)^{2/3}(.222)^{1/2} = 14.1$ $T_c = \frac{1800}{3600(14.1)} = .035$

$S = \frac{1400 - 1290}{4500} = .024$, $N = 0.045$, $R = 1.0$

$V = \frac{1.486}{.045}(1.0)^{2/3}(.024)^{1/2} = 5.2$ ft/s $T_c = \frac{4500}{(3600)(5.2)} = 0.24$

$T_c = 0.035 + 0.24 = 0.28$ (6.28 ft/sec)

Subarea -4

$S = \frac{1900 - 1400}{2400} = 0.208$, $R = 1.5$, $N = 0.065$

$V = \frac{1.486}{.065}(1.5)^{2/3}(.208)^{1/2} = 13.7$ ft/sec $T_c = \frac{2400}{(3600)(13.7)} = .049$ Hrs

$S = \frac{1400 - 1300}{6000} = 0.017$, $N = .045$, $R = 1.0$

$V = \frac{1.486}{.045}(1.0)^{2/3}(.017)^{1/2} = 4.3$ ft/sec $T_c = \frac{6000}{(3600)(4.3)} = 0.388$

$T_c = 0.049 + 0.388 = 0.44$ Hrs (3.8 ft/sec)

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO : 1969 O - 364-109

STATE Arizona		PROJECT RWCO Reach-2, Inlet Hyd.	
BY Hem	DATE 3/2/82	CHECKED BY	DATE / JOB NO.
SUBJECT Tc Calc's			SHEET OF

Subarea - 5

$S = \frac{1580 - 1400}{1200} = 0.150$ $N = 0.065$ $R = 1.5$

$V = \frac{1.486}{.065}(1.5)^{2/3}(.15)^{1/2} = 11.6$ ft/sec $T_t = \frac{1200}{(3600)(11.6)} = 0.029$ hrs

$S = \frac{1400 - 1305}{4100} = .023$, $N = 0.045$, $R = 1.5$

$V = \frac{1.486}{.045}(1.5)^{2/3}(.023)^{1/2} = 6.58$ ft/sec $T_t = \frac{4100}{(3600)(6.6)} = 0.173$

$T_c = 0.029 + .173 = 0.20$ hrs

Subarea - 6

$S = \frac{1700 - 1345}{9500} = .037$ $R = 2.0$ $N = 0.045$

$V = \frac{1.486}{.045}(2.0)^{2/3}(.037)^{1/2} = 4.58$

$T_c = \frac{9500}{(3600)(4.57)} = 0.58$ hrs

Subarea - 7

$T_c = 0.81$ hrs (See Subarea-188 in previous analysis dated 12/81)

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE: Arizona
PROJECT: RWCD, Reach-2, Inlet Hyd
BY: Horn
DATE: 3/2/82
CHECKED BY:
DATE:
SUBJECT: Tc Calc's
SHEET OF

Subarea - 8a

$S = \frac{1306 - 1285}{1400} = .015$ (21) $N = 0.040$ $R = 1.0$

$V = \frac{1.486}{.040}(1.0)^{2/3}(.015)^{1/2} = 4.55$ ft/sec $T_t = \frac{1400}{(3600)(4.55)} = .085$

$V = 3.3$ (avg. vel along Diversion)

$T_t = \frac{4300}{(3600)(3.3)} = 0.361$ Hrs

$T_c = 0.085 + 0.361 = 0.45$ Hrs

Subarea 8B

Flow along lower Diversion, $V = 1.6$ ft/sec

$T_c = \frac{5500}{(3600)(1.6)} = 0.95$ Hrs.

Subarea 9A

$S = \frac{1345 - 1270}{6000} = .0125$ (75), $N = 0.045$, $R = 1.5$

$V = \frac{1.486}{0.045}(1.5)^{2/3}(.0125)^{1/2} = 4.83$ ft/sec $T_t = \frac{6000}{(3600)(4.83)} = 0.35$

$T_t = \frac{1600}{(3600)(1.6)} = 0.28$ Hrs
& Along cond

$T_c = 0.35 + 0.28 = 0.63$ Hrs.

COMPUTATION SHEET
SCS ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO 1969 O - 364-109

STATE Arizona | PROJECT RWCD, Reach 2, Inlet Hyd
BY Hem | DATE 3/2/82 | CHECKED BY | DATE | JOB NO.
SUB Tc Calc's | SHEET | OF

Subarea 9b

$V = 1.6$ ft/sec Alum Diversion

$T_c = \frac{1500}{(3600)(1.5)} = 0.28$ hrs

Subarea - 10 (USE for Routing Along R.R.

$S = \frac{1250 - 1240}{6400} = .00156$ $N = 0.055$, $R = 1.5$
Along RR

$V = \frac{1.486}{0.55}(1.5)^{2/3}(.00156)^{1/2} = 1.4$ ft/sec (Between Bridges 3 thru 6

$S = 0.00667$ Between Bridges 2 & 3)

$V = \frac{1.486}{.055}(1.5)^{2/3}(.00667)^{1/2} = 2.9$ ft/sec

Subarea 10A

$S = \frac{10}{1700} = .006$ $N = 0.055$, $R = 1.0$

$L = 3800'$

$V = \frac{1.486}{.055}(1.0)^{2/3}(.006)^{1/2} = 2.09$ ft/sec

$T_c = \frac{3800}{(3600)(2.1)} = 0.50$ hrs

Subarea 10B

$S = 0.006$ $N = 0.055$ $R = 1.0$
$L = 6100'$
$V = 2.1$ ft/sec
$T_c = \frac{6100}{(3600)(2.1)} = 0.81$ hrs.

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE: ARIZONA | PROJECT: RWCD, REACH-2, INLET Hyd.
BY: Hum | DATE: 8/2/82 | CHECKED BY: | DATE:
SUBJECT: RUNOFF CURVE NUMBERS | SHEET | OF

Subareas Number	Size (mi²)	% Vegetation Type & Soil 1/ DESERT BR. B-SOIL CN-75	DESERT BR. D-SOIL CN-86	IRR Agric CN-~~80~~ 62 2/	Weighted 24-Hour CN
1	~~3.25~~ 1.66	45	55		81
2	~~0.34~~ 1.93	90	10		~~76~~ 80 = (1.59)81 + (.34)(76)
3	0.62	55	45		80
4	0.66	30	70		83
5	0.68	30	70		83
6	1.10	40	60		82
7	2.03	40	60		82
8A	0.52	90	10		76
8B	0.28	90	10		76
9A	0.79	90	10		76
9B	0.04	90	10		76
10	0.89			100	~~50~~ 62

1/ Based on data developed by Bob Bartels For Alt #3, dated Aug 19, 1974.

2/ Use CN = 62 for Irr Agric in the Subject area since most of the area is Furrow type of irrigation and not border irrigation on which the CN=50 was based. From Table 9.1, NEH-4, CN=71 for Good Row Crops Contoured & Terraced. The CN=62 is an average between the two extremes, or would be equivalent to a CN=75 Short Duration (1-hr) CN.

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

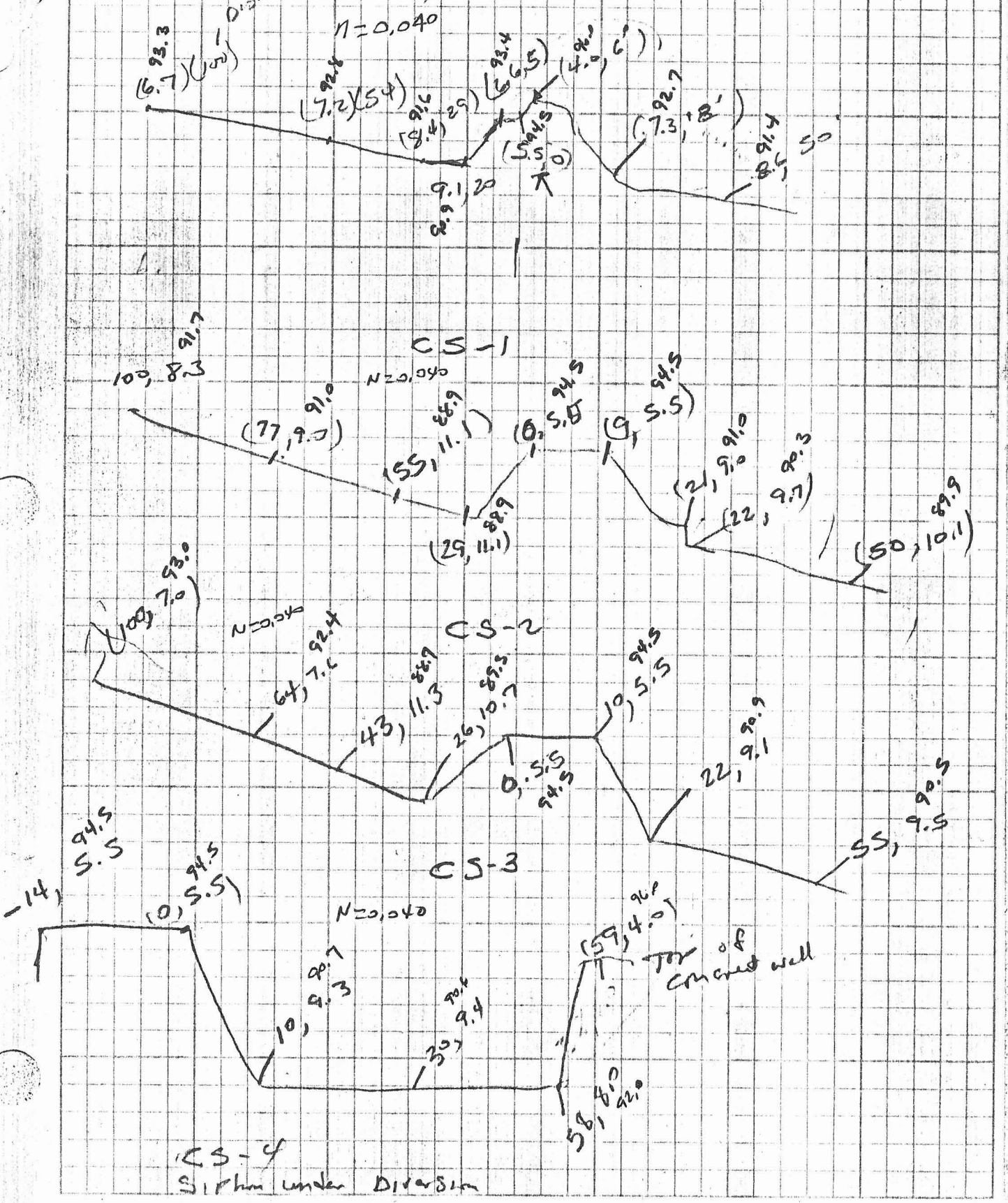
FIELD Survey DATA (Millsap & Fishick)

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
AR12	RWCD - REACH - 2		
BY	DATE	CHECKED BY	DATE	JOB NO.
Ham	3/1/82			

SUBJ. North Diversion CAPACITY Sections 19 & 20, T3S, R6E
(Flow From North to South)

SHEET OF



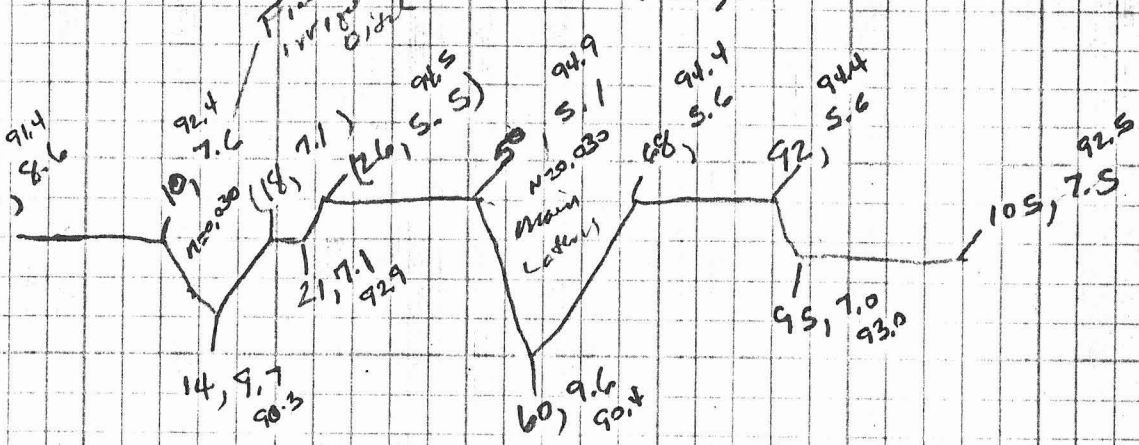
COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO 1969 J--364-109

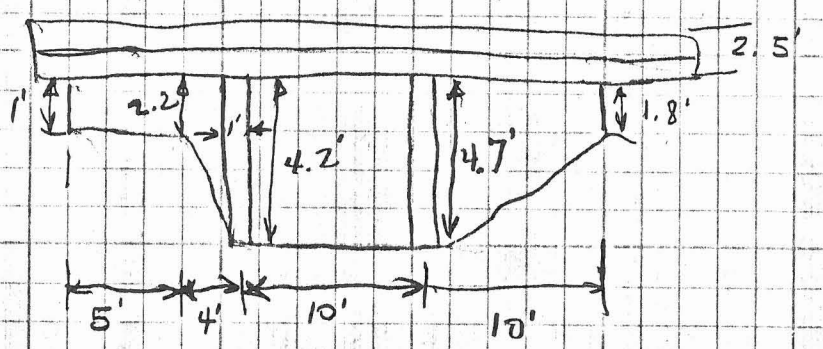
STATE	PROJECT		
AR12	RWCD REACH-2		
BY Hem	DATE 3/1/82	CHECKED BY	DATE	JOB NO.

SUBJECT Irrigation Canal & Bridge Capacities, S 20 & 28, T 33, R 6 E

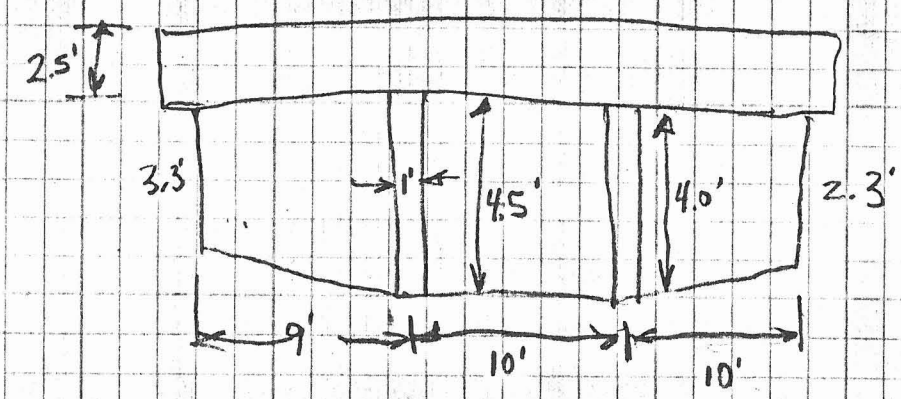
SHEET OF



RS-5 TYPICAL Irrigation Ditch Section



RR BRIDGE NO. 1



RR BRIDGE NO. 2
OUTLET FOR DIVERSION.

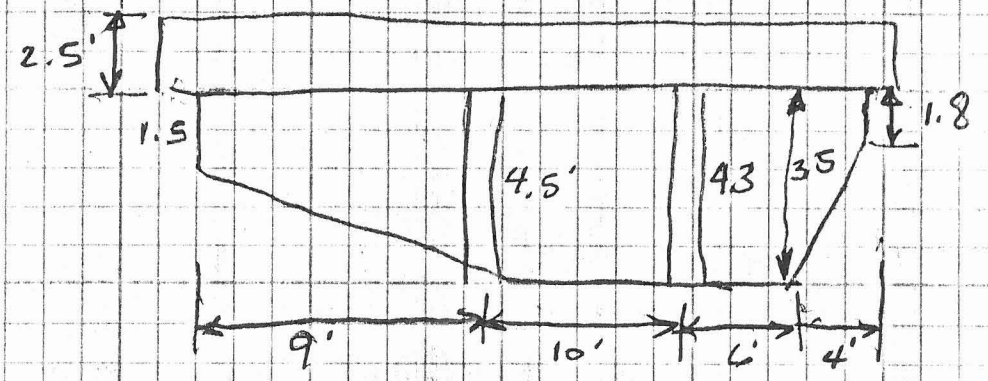
COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO 1969 O-364-109

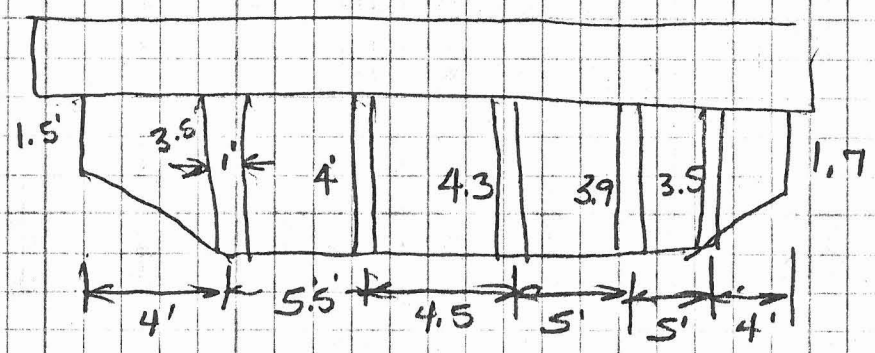
STATE	PROJECT		
AR 2	RWCU REACH -2		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	3/1/82			

SUBJECT: Bridge Computations, S 19 & 20, T3S, R6E

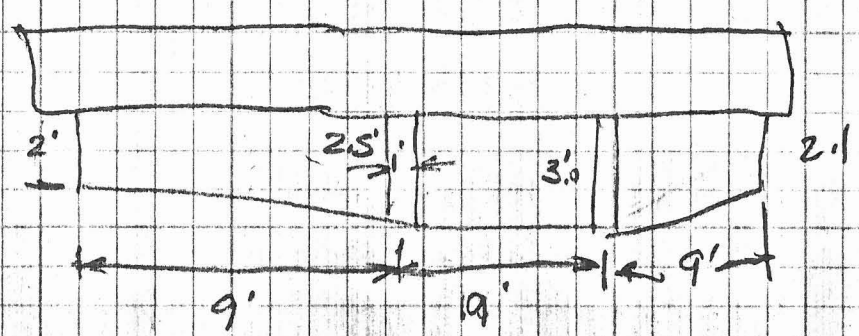
SHEET ____ OF ____



RR BRIDGE NO. 3
Hwy Bridge 3 - 4'x10' culverts



RR Brid No. 4
Hwy Bridge 3 - 4'x10'



RR BRIDGE NO. 5
[illegible] Road [illegible] w/ [illegible]

COMPUTATION SHEET

SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

GPO 1968 O-364-103

STATE: AR12

PROJECT: RWCD - Reach 2

BY: Hum

DATE: 3/1/82

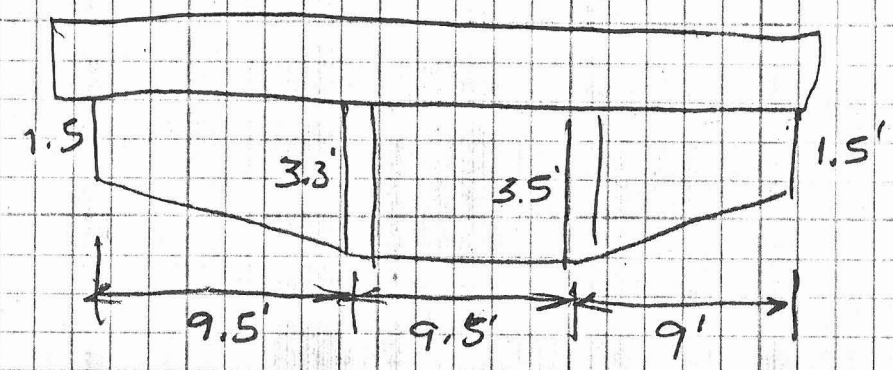
CHECKED BY:

DATE:

JOB NO.:

SUBJECT: Bridge Capacity S 18, T 3S, R 6E

SHEET OF

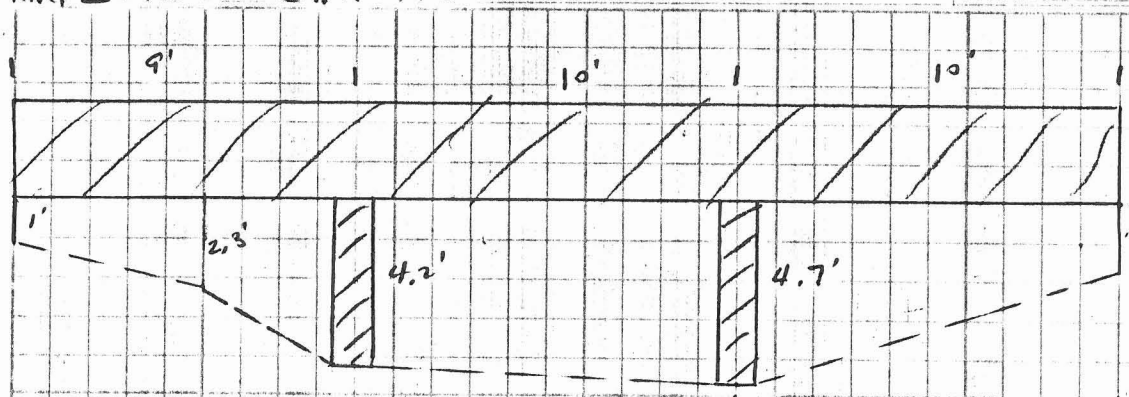


R.R. BRIDGE No. 6

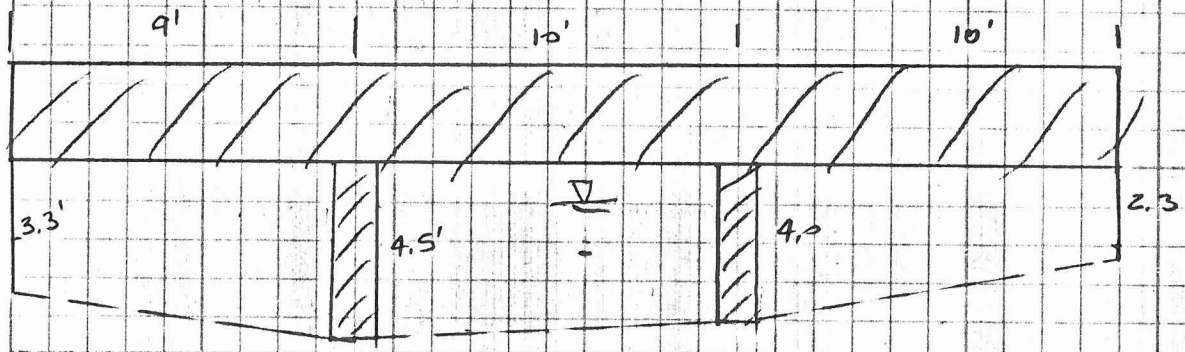
COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO : 1969 O—364-109

STATE	PROJECT		
Arizona	RWCD, REACH-2, INLET Hyd		
BY: Hem	DATE: 3/2/82	CHECKED BY	DATE
JOB NO.			
SUBJECT: R.R. BRIDGE CAPACITIES		SHEET	OF



R.R. BRIDGE NO. 1



RR BRIDGE NO. 2

$S = \frac{10}{1000} = 0.01$

$N = 0.040$

$A = (2.9)\left(\frac{10+29}{2}\right) + (1.3)(29) - 7.5 = 69.0$

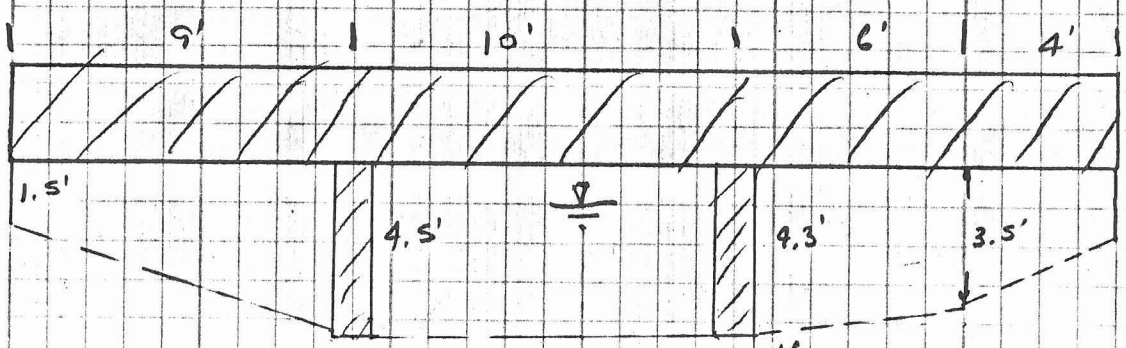
$R = \frac{96}{47} = 2.04$

$Q_{max} = \frac{1.486}{.040}(69)(2.04)^{2/3}(.01)^{1/2} = 412$ CFS

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO : 1969 O—364-109

STATE: Arizona
PROJECT: RWCD REACH -2, Inlet Hyd
BY: Hom
DATE: 3/2/82
CHECKED BY:
DATE:
JOB NO.:
SUBJECT: R. R. Bridge Capacities
SHEET OF



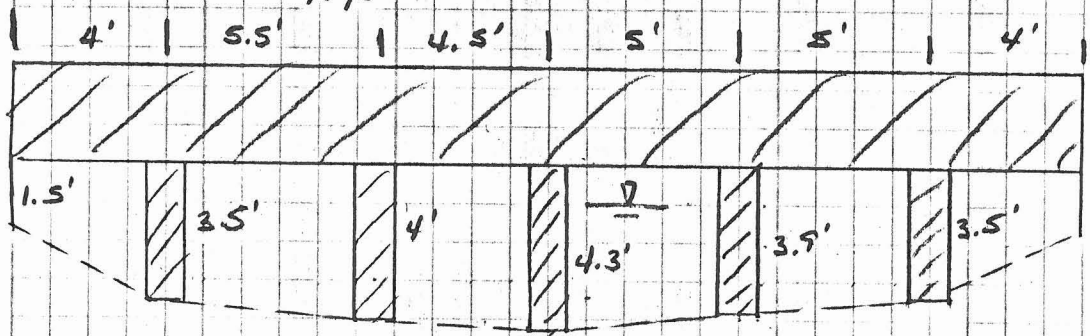
R. R. BRIDGE #3

$S = 0.01$, $N = 0.045$

$$A = \frac{10+29}{2}(3) + 0.5(29) - 6.8' = 66^{\square'}$$

$$WP = \frac{66}{45} = 1.47$$

$$Q = \frac{1.486}{.045}(66)(1.47)^{2/3}(.01)^{1/2} = 316 \text{ CFS}$$



R. R. BRIDGE NO. 4

$$A = \frac{20}{2}(0.8) + 2.5\left(\frac{20+28}{2}\right) - 14 = 54^{\square'}, \quad N = 0.045$$

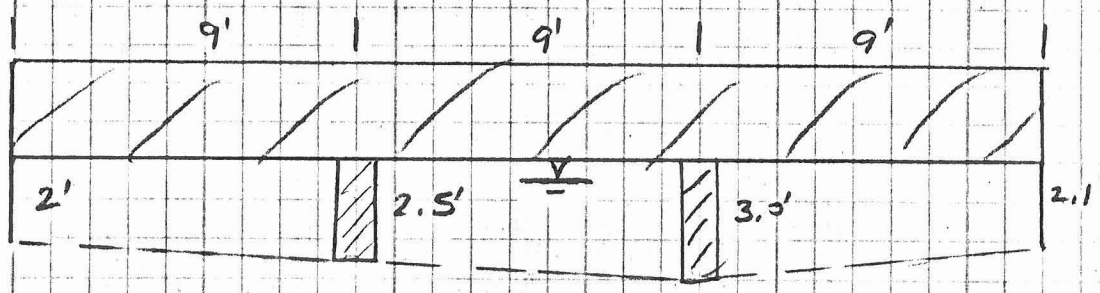
$$WP = \frac{54}{58} = 0.93 \qquad S = \frac{10}{3000} = .0033$$

$$Q = \frac{1.486}{.045}(54)(\overset{.95}{0.93})^{2/3}(\overset{.057}{.0033})^{1/2} = 109 \text{ CFS}$$

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-62

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO 1969 O-384-105

STATE: Arizona
PROJECT: RWCD, Reach 2, Inlet Hyd
BY: Hom
DATE: 3/2/82
CHECKED BY:
DATE:
JOB NO.:
SUBJECT: R.R. Bridge Capacities.
SHEET OF



R.R. BRIDGE NO. 5

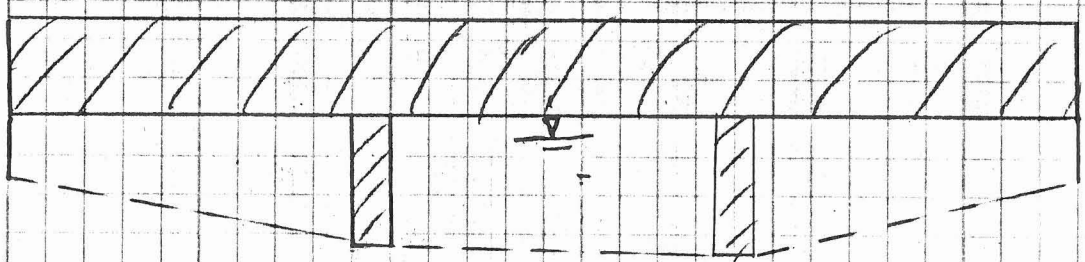
$A = \left(\frac{27}{2}\right)(1) + 1.5(27) - 5 = 49^{\square'}$ $N = 0.040$, $S = 0.0033$

$WP = 30 + 9 = 39$

$R = \frac{49}{39} = 1.26$

$Q = \frac{1.486}{0.040}(49)(1.26)^{2/3}(.0033)^{1/2}$ (1.16, .057)

$Q = 121$ CFS



RR Bridge No. 6

$A = \frac{9.5 + 28}{2}(2) + (1)(28) - 5.8 = 60^{\square'}$, $N = 0.040$

$S = 10/5000 = .002$ $WP = 30 + 12 = 42'$ $R = \frac{60}{42} = 1.43$

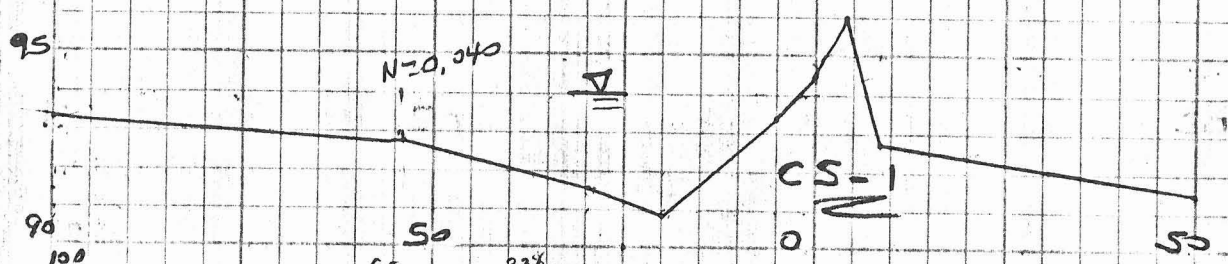
$Q = \frac{1.486}{.040}(60)(1.43)^{2/3}(.002)^{1/2} = 127$ CFS (1.27, .0447)

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE: ARIZONA
PROJECT: RWCD - REACH 2, INLET HYDROLOGY
BY: Hm
DATE: 3/1/82
CHECKED BY:
DATE:
SUBJECT: ESTI CAPACITY OF NORTH (EXISTING) DIVERSION
SHEET
OF

(NOTE, These Are ASSUMED ELEV'S.) ← Section 16 & 20 T3S, R6E

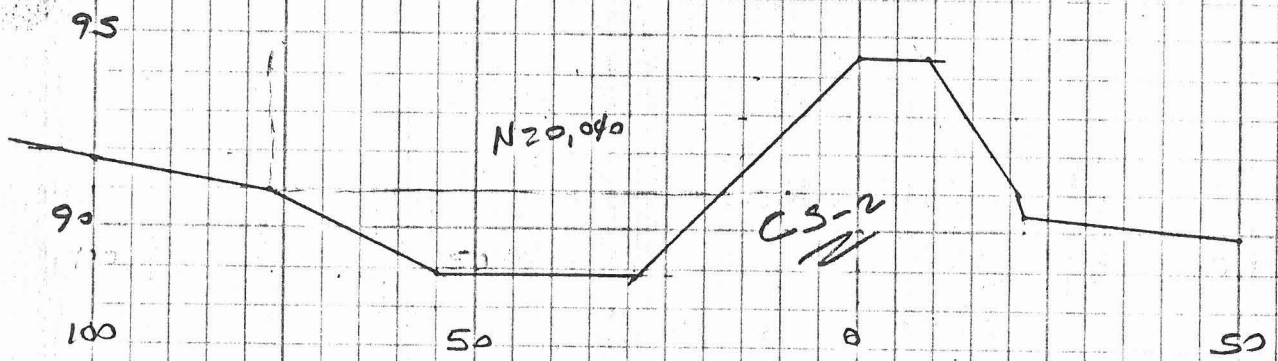


$$A = \left(\frac{95}{2}\right)(2) + \frac{95+116}{2}(3.2) + \frac{3.2}{2}(294) = 903.0'$$

WP = 294+116 = 410 R = 903/410 = 2.20, N = 0.040, S = 0.002 (Quad Sheet)

$$Q = \frac{1.486}{N} A R^{2/3} S^{1/2}$$

$$Q_{max} = \frac{1.486}{0.040}(923)(2.20)^{2/3}(.002)^{1/2} = 2596 \text{ CFS} \quad (V = 2.87)$$



$$A = \frac{43+92}{2}(2.1) + \frac{92+144}{2}(3.5) + \frac{3.5}{2}(210) = 923.0'$$

WP = 144 + 210 = 354' R = 923/354 = 2.61, N = 0.040 S = .002

$$Q_{max} = \frac{1.486}{0.040}(923)(2.61)^{2/3}(.002)^{1/2} = 2905 \text{ CFS}$$

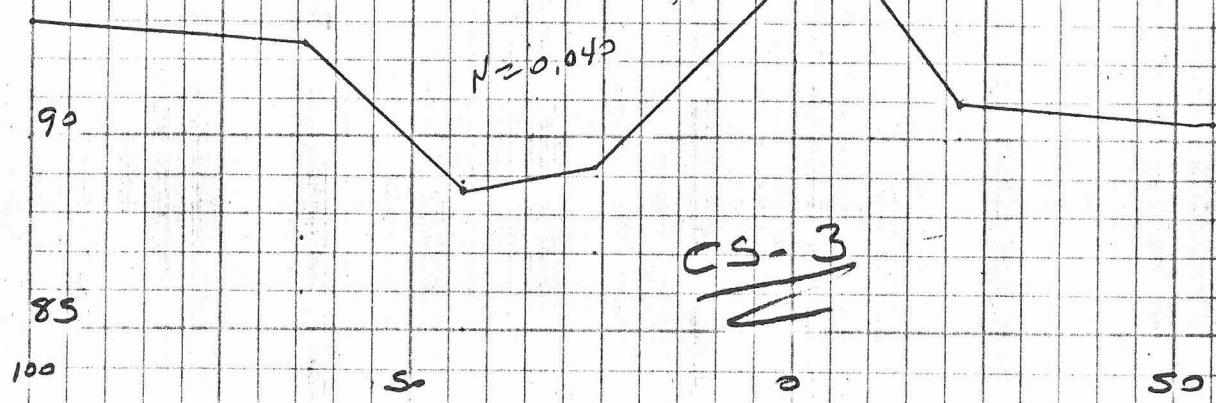
(V = 3.14)

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

52

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE: ARIZONA | PROJECT: RWCD, REACH 2, INLET Hydrology
BY: Hem | DATE: 3/1/82 | CHECKED BY: | DATE: | JOB NO.:
SUBJECT: EST. CAPACITY OF EXISTING (NORTH) DIVERSION | SHEET | OF
IN Sections 17 & 20, T 3S, R 6E, (Assume Q=N's)



$$A = \frac{38+110}{2}(3.4) + \frac{110+126}{2}(2.1) + \left(\frac{2.1}{2}\right)(126) = 632\ \square'$$

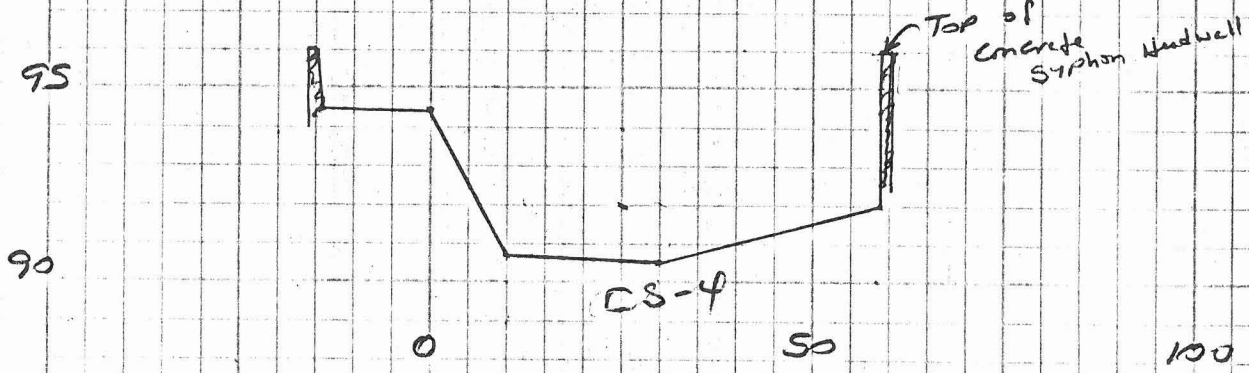
(252, 248, 126)

$WP = 126 + 126 = 252'$ $R = 632/252 = 2.51$ $N = 0.040$ $S = 0.002$

$$Q_{max} = \frac{1.486}{.040}(632)(2.51)^{2/3}(0.002)^{1/2} = 1939\ CFS$$

(.0447)

$(V = 3.06)$



$$A = \frac{40+104}{2}(1.4) + \frac{104+117}{2}(2.5) + 1.5(147) = 598\ \square'$$

(101, 276, 221)

$WP = 157$ $R = \frac{598}{157} = 3.80$ $N = 0.040$ $S = 0.002$

$$Q_{max} = \frac{1.486}{.040}(598)(3.80)^{2/3}(.002)^{1/2} = 2419\ CFS$$

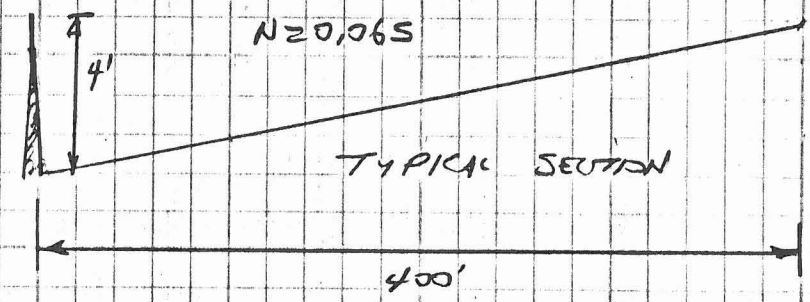
(.0447)

$V = 4.04$

COMPUTATION SHEET
SCS-ENG-523A Rev. 9-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO : 1969 O - 364-109

STATE: ARIZONA
PROJECT: RWCD, REACH-2, INLET Hydrology
BY: Hom
DATE: 3/1/82
CHECKED BY:
DATE:
SUBJECT: EST. CAPACITY OF EXISTING (South) DIVERSION IN Sections 17 + 20, T3S, R6E) (Flows to the North)
SHEET OF



$A = \frac{4}{2}(400) = 800\ ft^2$

$WP = 400'$ $R = \frac{800}{400} = 2$, $N = 0.065$ $S = .0005$

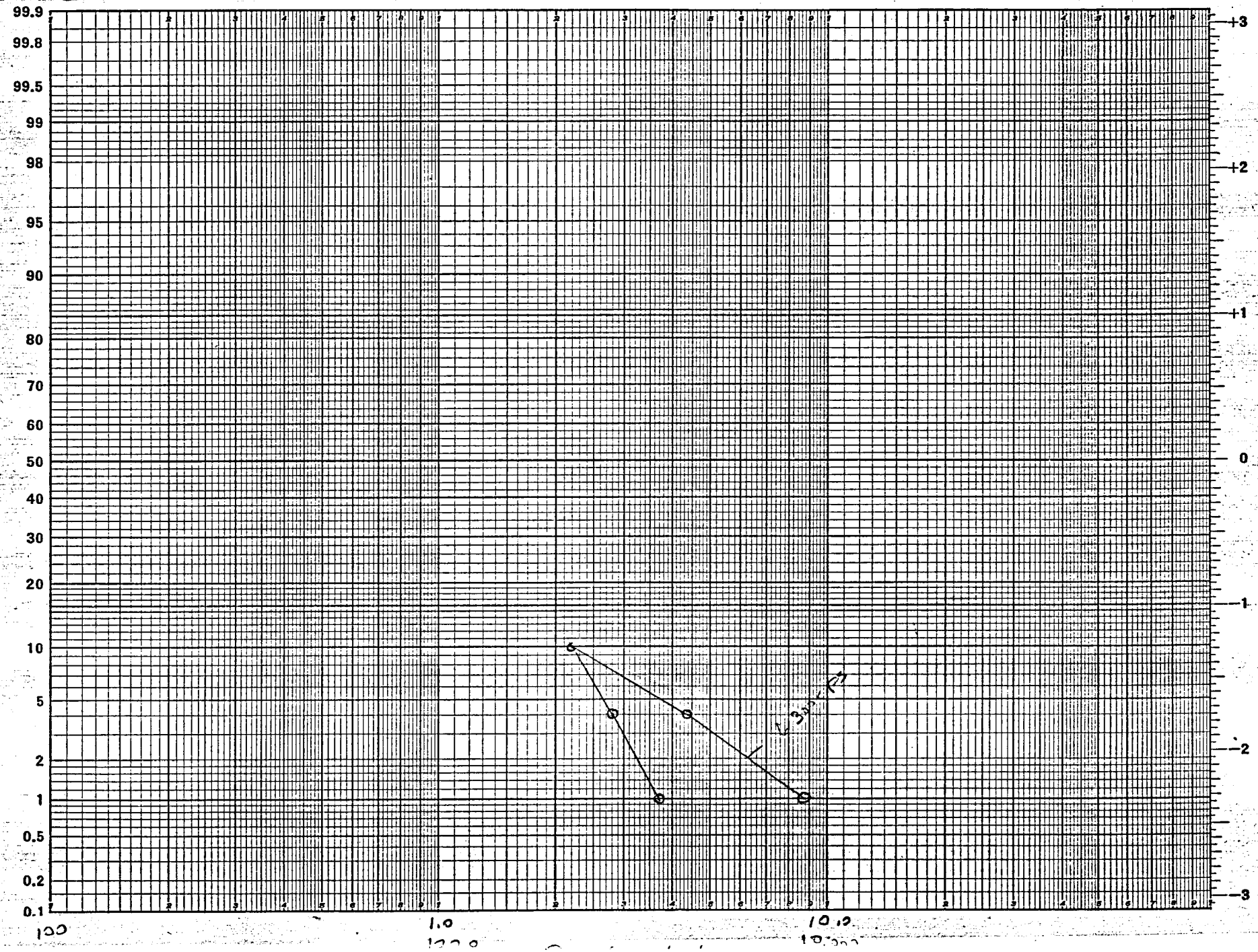
$Q_{max} = \frac{1.486}{.065}(800)(2)^{2/3}(.0005)^{1/2} = 650\ CFS$ (.0224)

$V = 1.6\ ft/sec$

NO. 31.376. LOGARITHMIC NORMAL.

codex GRAPH PAPER ® IN STOCK DIRECT FROM CODEX BOOK CO. INC. NORWOOD, MASS. 020

PRINTED IN U.S.A.



Full print

10-14

(DESIGN PERIOD)

STANDARD CONTROL FOR WATERSHED

(EXISTING CONDITIONS)

S - 273
v. 2 - 68

Watershed RWCD, REACH 2, INlet Hydrology Hydrologist [illegible] Date 3/1/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.										Put "1" in space						
6	[illegible]			1			6	AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RESVOR				6		7	SURF. ELEV. AT T=0, FT.									
6	[illegible]							LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	RUNOFF	1	001				6	AREA, SQ. MI. 3.25	RUNOFF CURVE NO. 81.	TIME OF CONCENTRATION, HRS. 0.90	1	1		1		1	1
6	ADD																
6	SAVMOV	5															
5	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	DIVERT	6			IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS									
	ENDATA																

STANDARD CONTROL FOR WATERSHED

S - 273
v. 2 - 68

Watershed RWCD Hydrologist Hem Date 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	HO.	X SECTION/ STRUCTURE SECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Date fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	2					4										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			4		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	102		16		5	5000.	0.75								2
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	002				6	0.34	76.	0.31	1	1		1		1	3
6	ADDHYD	4	102		5	6	7				1	1		1		1	4
6	SAVMOV	5															
	ADDHYD	4			5	6	7										
	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	DIVERT	6															
6	DATA																

NOTE: This card to be used only at end of all standard control cards.

STANDARD CONTROL FOR WATERSHED

S - 273
v. 2 - 68

Watershed RWCD Hydrologist Hm Date 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					4										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			4		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	103		7		5	2000.	0.75								5
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	003				6	0.62	80.	0.28	1	1		1		1	6
6	ADDHYD	4	103		5	6	7				1	1		1		1	7
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS									
	DIVERT	6															
	NODATA																

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

S - 273
v. 2 - 68

Watershed RWCD Hydrologist B Hum Date 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	RLEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1															
								SURF. ELEV. AT T=0, FT.									
6																	
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	104		7		5	2800.	0.75								8
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	004				6	0.66	83.	0.44	1	1		1		1	9
6	ADDHYD	4	104		5	6	7				1	1		1		1	10
6	SAVMOV	5	104		7		1										11
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	END							NOTE: This card is to be used only at end of all standard control cards.									

Add for subareas 1, 2, 3 & 4 stored in Blk. no.

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: Hum Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
IMPORTANT: Line out unused cards. Date fields require decimal points. KEYPUNCHER: Left justify data fields.											Put "1" in space						
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2															
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	005				6	0.68	83.	0.20	1	1		1		1	12
	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT	OUT-PUT	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CC . FOR WATERSHED

2 of 18

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: Hem Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	~~[illegible]~~																
								SURF. ELEV. AT T=0, FT.									
6	~~[illegible]~~																
6	REACH	3	108		16		5	LENGTH, FT. 5000.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.65								13
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	008 (Subwat 8A)				6	0.52	76.	0.45	1	1		1		1	14
6	ADDHYD	4	108		5	6	7				1	1		1		1	15
6	~~[illegible]~~																
6	~~[illegible]~~																
6	~~[illegible]~~																
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6	108		7	2	3	2000.	1.00								16

← water overtopping Diversion & x soil 1.16 to storage Sim No. 3

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: Hm Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	~~RUNOFF~~	1					6										
								SURF. ELEV. AT T=0, FT.									
6	~~SAVOR~~	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	109		2		5	3000.	0.65		1	1		1			17
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	~~RUNOFF~~	4															
6	ADDHYD	4			5	6	7										
								Total flow from Subarea 15 & A & X-Sect 109									
6	SAVMOV	5	109		5		2										18
6	~~RUNOFF~~	6															
6	ADDHYD	4			5	6	7										
	SAVMOV	5															
					IN-PUT	OUT-PUT	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	DIVERT	6															
	END							NOTE: This card is [illegible] control cards.									

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: Rwcd Hydrologist: Hm Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.										Put "1" in space						
6	RUNOFF	1						AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RESVOR	2						SURF. ELEV. AT T=0, FT.									
6	REACH	3						LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	RUNOFF	1	006				6	1.10	82.	0.58	1	1		1		1	19
6	ADDHYD	4															
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
6	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: Hm Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.										Put "1" in space						
6	RUNOFF	1						AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RESVOR	2						SURF. ELEV. AT T=0, FT.									
6	REACH	3	109		2		5	LENGTH, FT. 6500.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.75								20
6	RUNOFF	1	009		9A		6	AREA, SQ. MI. 0.79	RUNOFF CURVE NO. 76.	TIME OF CONCENTRATION, HRS. 0.63	1	1		1		1	21
6	ADDHYD	4	109		5	6	7				1	1		1			22
6	SAVMOV	5	109		7		5										23
6	SAVMOV	5	109		2		6										24
6	ADDHYD	4	109		5	6	7				1	1		1		1	25
6	DIVERT	6	109		IN-PUT 7	OUT-PUT 1 2	OUT-PUT 2 4	OUTPUT 1 DISCHARGE, CFS 400.	0.0								26
	ENDATA																

t water Diverted thru RR Bridge No. 2

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: Hm Date: 3/24/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF						8										
								SURF. ELEV. AT T = 0, FT.									
6	RUNOFF						7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	310		4		5	900.	~~0.35~~ 0.63	~~1.0 AF/sec~~ 2.0 AF/sec	1	1		1		1	27
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4				6	7										
6	RUNOFF	1															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6	310		5	4	6	300.	0.0								28

Lower Diversion thru RR Bridge No. 3

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD [illegible]TROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: Hem Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
[illegible]	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
[illegible]	RESVOR	2															
					6			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)	1.4 ft/sec							
6	REACH	3	410				5	2000.	~~0.35~~ 0.45		1			1			2
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	410				6	0.43	62.	0.50	1	1		1		1	3
6	ADDHYD	4	410		5	6	7				1	1		1			3
[illegible]	SAVMOV	5															
[illegible]	[illegible]																
					2	4	5										
6	ADDHYD	4	411		5	5	5				1	1		1			3
					5												
6	SAVMOV	5	411		5		2										3 2
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6	410		7	4	6	110.	0.0								3 2
	← water diverted thru KA Bridge No. 4																
[illegible]	[illegible]																

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: Hm Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	~~RUNOFF~~						6										
								SURF. ELEV. AT T=0, FT.									
					16			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	510		1		5	3200.	~~0.35~~ 0.45		1	1		1		1	33
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	~~ADDHYD~~	4	~~510~~					~~0.50~~	~~90~~	~~3.7~~							~~34~~
6	~~ADDHYD~~	4	~~511~~														~~34~~
6	ADDHYD	4	511		12 6	14 6	17 7				1	1				1	~~35~~ 36
6	SAVMOV	5	511		17 6		25										36
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	0.0								
6	DIVERT	6	510		7	4	6	120.									37

5 t Water Diverted thru RR Bridge No. 5

6	~~ADDHYD~~	4	~~510~~														~~34~~
6	~~ADDHYD~~	4	~~511~~														~~34~~
6	~~SAVMOV~~	5	~~511~~														~~36~~
6	~~DIVERT~~	6	~~510~~														~~37~~

Delete these two cards

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: Hem Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
[redacted]																	
								SURF. ELEV. AT T=0, FT.									
[redacted]																	
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	610		7		5	3400.	0.35 0.45		1	1		1			39
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	610				6	0.46	62.	0.81	1	1		1		1	4
6	ADDHYD	4	610		5	6	7				1	1		1			4
[redacted]																	
[redacted]																	
					2	4	5										
6	ADDHYD	4	611		7	7	7				1	1		1		1	4
6	SAVMOV	5	611		5		2										42
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6	610		5	4	6	130.									42
	← Water Diverted Thru RR Bridge No. 6																
[redacted]																	

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed Rwcd Hydrologist Ham Date 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1															
								SURF. ELEV. AT T=0, FT.									
6	DEL																
					6			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								43
6	REACH	3	710		5		5	700'	~~0.35~~ 0.45		1	1		1		1	42
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1															
					2	4											44
6	ADDHYD	4	711		5	5	7				1	1				1	43
6	SAVMOV	5	711		7		2										45
																	46
6	SAVMOV	5	710		5		4										45
6	ADDHYD	4															
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							Required only at end of all standard control cards.									

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed RWCD Hydrologist Hem Date 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO	X SECTION/ STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUT PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS	Put "1" in space						
6	RUNOFF	1															
								SURF ELEV AT T=0, FT									
6	DRAIN	1															
								LENGTH FT	(OPTIONAL) ROUTING COEFFICIENT (K)								
6	RUNOFF	1	209	Subbasin 9B			6	AREA, SQ MI 0.04	RUNOFF CURVE NO. 76.	TIME OF CONCENTRATION, HRS 0.28	1	1		1		1	47 46
6	ADDHYD	4	209		3	6	7				1	1					48 47
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	DIVERT	6			IN-PUT	OUT-PUT	OUT-PUT	OUTPUT 1 DISCHARGE, CFS									
6	END	1															

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCO Hydrologist: Hem Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
[redacted]																	
								SURF. ELEV. AT T=0, FT.									
[redacted]																	
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)	1.6 ft/sec							49
6	REACH	3	208		7		5	5800.	0.47		1	1		1			~~48~~
			Subarea 88					AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							50
6	RUNOFF	1	208				6	0.28	76.	0.95	1	1		1		1	~~49~~
																	51
6	ADDHYD	4	208		5	6	7				1	1		1		1	50
																	52
6	SAVMOV	5	208		7		6										51
[redacted]																	
6	ADDHYD	4			5	6											
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	DIVERT	6															
[redacted]																	
	ENDATA							NOTE: This card is to be used only									

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: Rwco Hydrologist: Hm Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space																
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	~~E N D O F~~	1															
								SURF. ELEV. AT T = 0, FT.									
	~~E N D O F~~																
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)	113 ft/sec (Concrete Sewer)							53
6	R E A C H	3	2 1 1		1		5	5400.	0.90								~~52~~
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
	~~E N D O F~~																
																	54
6	A D D H Y D	4	2 1 1		5	6	7				1	1		1		1	~~53~~
6	S A V M O V	5															
6	A D D H Y D	4			5	6	7										
6	S A V M O V	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	D I V E R T	6															
	~~E N D O F~~																

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed RWCO Hydrologist Hem Date 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO	STRUCT NO	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	[illegible]																
								SURF. ELEV. AT T = 0, FT.									
6	[illegible]																
			712					LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								55
6	REACH	3	711		7		5	6300.	0.75		1	1		1			54
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	[illegible]																
			712			4											56
6	ADDHYD	4	711		5	4	7				1	1		1		1	55
6	[illegible]																
6	SAVMOV	5															
6	ADDHYD	4			5	4	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT																
																	67
	ENDATA							NOTE: This card is to be used only at end of all standard control cards									56

MODIFY STANDARD CONTROL

SCS - 275
Rev. 2 - 68

Watershed RWCD Hydrologist Hm Date 3/3/82

DATA CODE	OPERATION NAME	OPERATION NO	XSECTN STRUCTURE XSECTN NO	XSECTN STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO / IDENTIFICATION
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.												
					IMPORTANT: Modifications must be given in the order that they appear on the standard control list.												
7								NOTE: The following cards are inserted following the XSECTN STRUCTURE card.									
6																	
6																	
6																	
6																	
7	ALTER	3						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be altered.									
6																	
6																	
6																	
6																	
7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted.									
6																	
6																	
6																	
6																	
7	LIST							NOTE: This card is used for printout of tabular data and standard control list that are currently effective.									58 ~~57~~
[illegible]																	
								NEW BASE FLOW CFS									
7	[illegible]								NOTE: This card normally precedes a COMPUT card.								

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 20, 1964

EXECUTIVE CONTROL FOR WATERSHED

SCS - 274
Rev. 2-68

Watershed RWCD, REACH-2, INLET HYDROLOGY Hydrologist Herm Date 3/3/82

DATA CODE	OPERATION NAME	OPERATION NO.	FROM XSECTN OR STRUCT	THRU (1) XSECTN OR STRUCT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	RAIN TABLE NO.	AMC	ALTERNATE NO.	STORM NO.	CARD NO / IDENTIFICATION
IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.												
					MAIN TIME INCREMENT, HRS. (This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed.)							59
7	INCREM	6			0.20							58
					STARTING TIME, HRS.	100-YR RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall)	RAINFALL DURATION, HRS.					60
7	COMPUT	7	001	711	0.0	3.70 ‖	1.00	2	2	03	01	59
												61
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							60
						25-YR						62
7	COMPUT	7	001	711	0.0	2.80 ‖	1.00	2	2	03	02	61
												63
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							62
						10-YR						64
7	COMPUT	7	001	711	0.0	2.20 ‖	1.00	2	2	03	03	63
												65
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							
	COMPUT	7										
	ENDCMP	1			NOTE: [illegible]							

‖ NOTE: These are point Rainfalls and are Not reduced for area as was done for Subarea 187 in Bartel's AH-3(Rev) Design Run. This Run is for Inlet Design in Reach 2 with Total DA = 8.28 M.²

66

	ENDJOB	2			NOTE: This card terminates the ar watershed program.							64

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control list having the XSECTN STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN STRUCT under THRU. Two or more COMPUT cards in series will normally cover successive parts of the standard control list.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 20, 1964

FULL PRINT

11-15

(DES/ [illegible] NEW DV)

STANDARD CONTROL FOR WATERSHED

WITH NEW (EXISTING CONDITIONS) [illegible]

S-273
v. 2-68

Watershed ROUCD, REACH 2, INlet Hydrolog Hydrologist [illegible] Date 3/1/72

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE ESECT NO	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	CONTROL			1			6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR				6		7										
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH						5										
								AREA, SQ MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	SUMOPP	1	001				6	3.25	81.	2.90	1	1		1		1	1
6	ADDMOV	4					7										
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	END DATA							NOTE: This card is to be used only at end of all standard control cards.									

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

S-273
v. 2-68

Watershed: RWCD Hydrologist: Hem Date: 3/3/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE SECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					4										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			4		2										
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	102		16		5	3000.	0.75								2
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	002				6	0.34	76.	0.31	1	1		1		1	3
6	ADDHYD	4	102		5	6	7				1	1		1		1	4
6	SAVMOV	5															
	SAVMOV	5															
	ADDHYD	4			5	6	7										
	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	DIVERT	6															
	FINDATA																

NOTE: This card is to be used only at end of all standard control cards.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 28, 1963

STANDARD CONTROL FOR WATERSHED

S - 273
v. 2 - 68

Watershed RWCD Hydrologist [illegible] Date 3/3/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE SECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Date fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					4										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	1	03	7		5	2000.	0.75								5
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	00	3			6	0.62	70.	0.28	1	1		1		1	6
6	ADDHYD	4	1	03	5	6	7				1	1		1		1	7
6	SAVMOV	5															
5	SAVMOV	5															
6	ADDHYD	4			5	6	7										
1	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	DIVERT	6															
	ENDATA																

.001 This card is to be used only at end of all standard control cards.

STANDARD CONTROL FOR WATERSHED

S - 273
v. 2 - 68

Watershed Rwcp Hydrologist B Ham Date 2/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE ESECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1															
								SURF. ELEV. AT T=0, FT.									
6																	
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	104		7		5	2800.	0.75								8
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	004				6	0.66	83.	0.44	1	1		1		1	9
6	ADDHYD	4	104		5	6	7				1	1		1		1	1 3
6																	
	SAVMOV	5															
	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	FINISH							NOTE: This card is to be used only at end of all standard control cards.									

Add for 1, 2, 3 Storms in Bin

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed [illegible] Hydrologist [illegible] Date [illegible]

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO	STRUCT NO	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	TUNOF	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ MI	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
								SURF. ELEV. AT T = 0, FT									
6	REACH	3	205		7		8	LENGTH FT. 2200.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.75		1	1		1		1	
6	RUNOFF	1	007				6	AREA, SQ. MI 2.03	RUNOFF CURVE NO 82.	TIME OF CONCENTRATION, HRS 0.81	1	1		1		1	
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	DIVERT	6			IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	ENDATA																

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed [illegible] Hydrologist [illegible] Date [illegible]

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	FUNCT	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.	Put "1" in space						
[redacted]																	
								SURF ELEV. AT T=0, FT									
[redacted]					6		7										
					6			LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	106				5	2800.	0.75								
								AREA, SQ. MI	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	006				6	1.10	82.	0-58	1	1		1		1	
6	ADDHYD	4	106		5	6	7				1	1		1		1	
[redacted]																	
	SAVMOV	5															
	ADDHYD	4			5	6	7										
	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	DIVERT	6															
[redacted]																	

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 196

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO	X SECTION/ STRUCTURE STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.	Put "1" in space						
								SURF ELEV AT T=0, FT									
6	REACH	3	105		7		5	LENGTH FT 4200.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.75								
6	RUNOFF	1	005				6	AREA, SQ. MI 0.68	RUNOFF CURVE NO 83.	TIME OF CONCENTRATION, HRS. 0.20	1	1		1		1	
6	ADDHYD	4	105		5	6	7				1	1		1		1	
6	SAVMOV	5															
	SAVMOV	5															
	ADDHYD	4			5	6	7										
	SAVMOV	5															
	DIVERT	6			IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1961

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO	STRUCT NO	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.	Put "1" in space						
								SURF. ELEV. AT T = 0, FT									
6	REACH	3	205		7		5	LENGTH, FT. 3000.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.75		1	1			1		1
								AREA, SQ. MI	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	ADDHYD	4	205		5	1	7				1	1			1	1	
	SAVMOV	5															
	ADDHYD	4			5	6	7										
	SAVMOV	5															
6	DIVERT	6			INPUT	OUTPUT 1	OUTPUT 2	OUTPUT 1 DISCHARGE, CFS									
	ENDATA							NOTE: This card is to be used only at end of all standard control cards									

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO	STRUCT NO	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.	Put "1" in space						
4	RUNOFF	1					4										
								SURF ELEV AT T=0, FT									
							1	LENGTH FT	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	211		7		8	3200.	0.90		1	1		1			2
								AREA, SQ. MI	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	008				6	0.52	76.	0.45	1	1		1		1	2
4	ADDHYD	4			5	6	7										
5	SAVMOV	5															
5	SAVMOV	5															
6	ADDHYD	4			5	6	7										
4	SAVMOM	6															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6	008		6	2	3	2000.									2
	END																

NOTE: This card is to be used only at end of all standard control cards.

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed [illegible] Hydrologist [illegible] Date 3/1/[illegible]

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO	STRUCT NO	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Date fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	~~RUNOFF~~	1					6										
								SURF ELEV AT T=0, FT									
6	~~READHYD~~																
					2			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	109		1		5	3000.	0.65		1	1		1		1	
			6-Subarea 9A					AREA, SQ. MI	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	009				6	0.79	76.	0.63	1	1		1		1	
6	ADDHYD	4	109		5	6	7				1	1		1		1	
6	~~SAVMOV~~	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	0.0								
6	DIVERT	6	109		7	2	4	400.									
	~~ENDATW~~																

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed RWCD Hydrologist [illegible] Date 3/24/82

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI.	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.	Put "1" in space						
4	RUNOFF						6										
								SURF. ELEV AT T = 0, FT									
4	RESERVOIR						7										
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	310		4		5	900.	0.63		1	1		1		1	27
								AREA, SQ. MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.							
4	RUNOFF						6										
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4				6	7										
4	RUNOFF						6										
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6	310		5	4	6	300.	0.0								28

Lower Diversion thru PR Bridge [illegible]

NOTE: This card is to be used only at end of all standard control cards.

STANDARD CO[illegible]OL FOR WATERSHED

12 H of 17

SCS - 273
Rev. 2 - 68

Watershed: RWFD

Hydrologist: Hoon

Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
											Put "1" in space						
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	R E S E R V O I R																
								SURF. ELEV. AT T=0, FT									
6	R E S E R V O I R					6	7										
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)	1.4 Slope							
6	R E A C H	3	4 1 0			6	5	2000.	2.250.45		1		1				2 9
								AREA, SQ. MI.	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.							
6	R U N O F F	1	4 1 0				6	0.43	62.	0.50	1	1		1		1	3 0
6	A D D H Y D	4	4 1 0			5	6	7			1	1		1			3 1
6	S A V M O V S																
6	A D D H Y D	4	4 1 1			2 5	4 6	5 7			1	1				1	3 2
6	S A V M O V S		4 1 1			5		2									3 2 A
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	D I V E R T	6	4 1 0			7	4	6	110.	60.0							3 2 B

← water diverted thru rr Bridge no. 4

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 19[illegible]

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCO Hydrologist: Hm Date: 3/7/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ MI.	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	~~RUNOFF~~						6										
								SURF. ELEV AT T=0, FT									
4	~~BEGINCOMP~~						7										
					6			LENGTH FT	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	510		1		5	3200.	~~0.35~~ 0.45		1	1		1		1	33
								AREA, SQ MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.							
6	~~RUNOFF~~	1	010				6	~~0.89~~	~~50.~~	~~3.90~~	1	1		1		1	~~34~~
6	ADDHYD	4	510		5	5	1				1	1		1		1	34A
	~~SAVMOV~~																
	~~SAVMOV~~																
6	ADDHYD	4	511		2 ~~6~~	4 ~~4~~	7 ~~1~~				1	1				1	35
6	SAVMOV	5	511		7 ~~6~~		2										36
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6	510		7	4	6	120.	0.0								37
	5 ft. Water Diverted thru WR Bridge No. 5																
	~~END DATA~~																

This Divider cards Two

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONT[illegible] FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCD Hydrologist: [illegible] Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	[illegible]																
								SURF. ELEV. AT T = 0, FT									
6	[illegible]																
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	610		7		5	3400.	0.45		1	1		1			38
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	610				6	0.46	62.	0.81	1	1		1			39
6	ADDHYD	4	610		5	6	7				1	1		1			40
6	[illegible]																
6	[illegible]																
					12	14	15										
6	ADDHYD	4	611		7	4	7				1	1		1			41
6	SAVMOV	5	611		5		2										41A
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	0.0								
6	DIVERT	6	610		8	4	6	130.									42A
	7 ← Water Diverted from PA Basin No. 6																

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 20, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: Rwcd Hydrologist: Hem Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO	STRUCT NO	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1															
								SURF. ELEV AT T=0, FT									
6	RESERVOIR	2															
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	710		6		5	720'	~~0.35~~ 0.45		1	1		1		1	42
								AREA, SQ. MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4	711		12 5	14 6	7				1	1				1	43
6	SAVMOV	5	711		7		2										44
6	SAVMOV	5	710		5		4										45
6	ADDHYD	4			5	4	2										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA																

NOTE: This card is to be used only at end of all standard control cards.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed RWCD Hydrologist Hem Date 3/3/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.										Put "1" in space						
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6							6										
								SURF. ELEV. AT T=0, FT.									
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	209				6	0.04	76.	0.28	1	1		1		1	45A
6	ADDHYD	4	209		3	6	7				1	1					45B
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															

NOTE: This card is to be used only at end of all standard control cards.

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCO Hydrologist: Horn Date: 3/2/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO	STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER. Left justify data fields										Put "1" in space						
6							6	AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6							7	SURF. ELEV AT T=0, FT									
6	REACH	3	208		7		5	LENGTH FT 5800.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.47		1	1		1			46
6	RUNOFF	1	208				6	AREA, SQ. MI 0.28	RUNOFF CURVE NO. 76.	TIME OF CONCENTRATION, HRS. 0.95	1	1		1		1	47
6	ADDHYD	4	208		5	6	7				1	1		1		1	48
6	SAVMOV	5	208		7		6										49
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards									

Subarea 89

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 28, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed: RWCO Hydrologist: Hzm Date: 3/12/82

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO	X SECTION/ STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space																
								AREA, SQ. MI	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1															
								SURF. ELEV AT T = 0, FT									
6	RELEVO																
								LENGTH, FT	(OPTIONAL) ROUTING COEFFICIENT (C)								
								AREA, SQ. MI	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1															
6	ADDHYD	4	211		4	5	7				1	1		1		1	51
6	CONVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
6	END RUN							NOTE: This card is to be used only at end of all standard control cards									

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed RWCD Hydrologist [illegible] Date 3/7/82

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE RSECT NO	STRUCT NO	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PLOT	SUM	CARD NO / IDENTIFICATION
IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER Left justify data fields																	
6	RUNOFF	1					8	AREA, SQ MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS	Put "1" in space						
6	REACH	2					7	SURF ELEV AT T-0, FT									
6	REACH	3	711		7		5	LENGTH FT 6300.	(OPTIONAL) ROUTING COEFFICIENT (K) 0.75		1	1		1			52
6	RUNOFF	4					8	AREA, SQ. MI	RUNOFF CURVE NO	TIME OF CONCENTRATION, HRS							
6	ADDHYD	4	711		5	4	7				1	1		1		1	53
6	DIVERT	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	DIVERT				IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
	ENDATA							NOTE: This card is to be used only at end of all standard control cards									54

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 28, 196

MODIFY STANDARD CONTROL

SCS - 275
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO	XSECTN STRUCTURE XSECTN NO	XSECTN STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO / IDENTIFICATION

IMPORTANT: Line out unused cards Data fields require decimal points KEYPUNCHER: Left justify data fields

IMPORTANT Modifications must be given in the order that they appear on the standard control list.

7	INSERT	2						NOTE The following cards are inserted following the XSECTN STRUCTURE									
6																	
6																	
6																	
6																	
7	ALTER	3						NOTE Data given in columns 1 to 18 must be identical with standard control card to be altered									
6																	
6																	
6																	
6																	
7	DELETE	4						NOTE Data given in columns 1 to 18 must be identical with standard control card to be deleted									
6																	
6																	
6																	
6																	
7	LIST							NOTE This card is used for printout of tabular data and standard control list that are currently effective									SS
7	UPDATE	1						NOTE									
								NEW BASE FLOW, CFS									
7	BASEFLOW								NOTE The word or mnemonic precedes a COMPUT card								

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 20, 1964

EXECUTIVE CONTROL FOR WATERSHED

SCS - 274
Rev. 2-68

Watershed RWCD, Reach 2, Inlet Hydrology Hydrologist [illegible] Date 3/3/82

DATA CODE	OPERATION NAME	OPERATION NO.	FROM XSECTN OR STRUCT	THRU (1) XSECTN OR STRUCT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	RAIN TABLE NO.	ANC	ALTERNATE NO.	STORM NO.	CARD NO. IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.											
					MAIN TIME INCREMENT, HRS	(This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed.)						56
7	INCREM	6			0.20							
					STARTING TIME, HRS.	100-YR RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall)	RAINFALL DURATION, HRS.					
7	COMPUT	7	001	711	0.0	3.70 1/	1.00	2	2	03	01	57
	ENDCMP	1			NOTE. This card is required at "end" of a watershed, it may follow a series of COMPUT cards							58
						25-YR						
7	COMPUT	7	001	711	0.0	2.80 1/	1.00	2	2	03	02	59
	ENDCMP	1			NOTE: This card is required at "end" of a watershed, it may follow a series of COMPUT cards.							60
						10-YR						
7	COMPUT	7	001	711	0.0	2.20 1/	1.00	2	2	03	03	61
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards							62
7	COMPUT	7										
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards							

1/ NOTE: These are point Rainfalls and are Not reduced for Area as was done for Subarea 187 in Bartel's ALT-3(RW) Design Run. This Run is for Inlet Design in Reach 2 with Total DA = 8.28 Mi²

	ENDJOB	2			NOTE: This card terminates the er watershed program							63

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control tape having the XSECTN STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN STRUCT under

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 30.

```
 SSSSSSSS        CCCCCCCC        SSSSSSSS          0000              44  44      NN        NN
SSSSSSSSSS      CCCCCCCCCC      SSSSSSSSSS       00000000           44  44      NNN       NN
SS      SS      CC      CC      SS      SS      000    000         44  44      NNNN      NN
SSS     SS      CC      CC      SSS     SS     000    00000       44  44      NNNNN     NN
 SSS            CC                SSS          00    00  00     44  44      NN NNN    NN
   SSS          CC                  SSS        00   00   00    44444444444  NN  NNN   NN
     SSS        CC                    SSS      00  00    00   444444444444  NN   NNN  NN
       SSS      CC                      SSS    00 00     00            44   NN    NNN NN
SS      SS      CC      CC      SS      SS     0000     000            44   NN     NNNNN
SS      SS      CC      CC      SS      SS      000    000             44   NN      NNNN
SSSSSSSSSS      CCCCCCCCCC      SSSSSSSSSS       00000000              44   NN       NNN
 SSSSSSSS        CCCCCCCC        SSSSSSSS          0000               44   NN        NN
```

With Area 7

w/ New Diversion

Q10, Q25, Q100

* * * * * * UNIVAC 1100 TIME/SHARING EXEC --- MULTI-PROCESSOR SYSTEM --- LEV. SA-37R2A-2M SITE * SITEID * * * * * * *

RUNID * SCS04N USER ID * PART NUMBER * 00 INPUT DEVICE * CR0904 OUTPUT DEVICE * PR0904

FILE NAME * PR0000SCS04N CREATED AT: 16:04:34 MAR 11,1982 PRINTED AT: 07:56:07 MAR 12,1982

```
@RUN,L SCS04M,1604000101  ,SCS04,5.5000/1000 . RWCD-REACH2

@SYM PRINT1.1,FCR904

@ASG,T 25..F///50

@ASG,T 23..F///50

@ASG,T 22..F///50

@XQT   SCS76*ABS.TR20
```

RWCD - REACH - 2
INLET HYDROLOGY
W/ NEW DIVERSION IN
SECTION 16, 21 & 28, T3S, R6E

INLET HYD W/NEW DIV IN SECT 16,21,28,T3S,R6E 03/10/82

TR-20 HYDROLOGY

4

EXECUTIVE CONTROL CARD 55 OPERATION LIST

LISTING OF DATA IN CORE

0 INLET HYD W/NEW DIV IN SECT 16,21,28,T3S,R6E

VELOCITY INCREMENT

1 CTABLE .2000

8	.0000	.0800	.1800	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300

9 ENDTBL

TIME INCREMENT

4 DIMHYD

8	.0000	.0300	.1000	.1900	.3100
8	.4700	.6600	.8200	.9300	.9900
8	1.0000	.9900	.9300	.8600	.7800
8	.6800	.5600	.4600	.3900	.3300
8	.2800	.2410	.2070	.1740	.1470
8	.1260	.1070	.0910	.0770	.0660
8	.0550	.0470	.0400	.0340	.0290
8	.0250	.0210	.0180	.0150	.0130
8	.0110	.0090	.0080	.0070	.0060
8	.0050	.0040	.0030	.0020	.0010
8	.0000	.0000	.0000	.0000	.0000

9 ENDTBL

COMPUTED PEAK K FACTOR = 484.00

TIME INCREMENT

5 RATIFL 1 .5000

```
8                .0000        .0080        .0170        .0260        .0350
8                .0450        .0550        .0650        .0760        .0870
8                .0990        .1120        .1250        .1400        .1560
8                .1740        .1940        .2190        .2540        .3030
8                .5150        .5830        .6240        .6540        .6820
8                .7050        .7270        .7480        .7670        .7840
8                .8000        .8160        .8300        .8440        .8570
8                .8700        .8820        .8930        .9050        .9160
8                .9260        .9360        .9460        .9550        .9650
8                .9740        .9830        .9920       1.0000       1.0000
9 ENDTBL

                   TIME INCREMENT
5 RAINFL 2                   .5000

8                .0000        .0050        .0110        .0160        .0220
8                .0280        .0350        .0410        .0480        .0560
8                .0630        .0710        .0800        .0890        .0980
8                .1090        .1200        .1330        .1470        .1630
8                .1810        .2040        .2350        .2830        .6630
8                .7350        .7720        .7990        .8200        .8380
8                .8540        .8680        .8800        .8910        .9020
8                .9120        .9210        .9290        .9370        .9450
8                .9520        .9590        .9650        .9720        .9780
8                .9840        .9890        .9950       1.0000       1.0000
9 ENDTBL

                   TIME INCREMENT
5 RAINFL 3                   .0200

8                .0000        .0080        .0162        .0246        .0333
8                .0425        .0524        .0630        .0743        .0863
8                .0990        .1124        .1265        .1420        .1600
8                .1800        .2050        .2550        .3450        .4370
8                .5300        .6030        .6330        .6600        .6840
8                .7050        .7240        .7420        .7590        .7750
8                .7900        .8043        .8180        .8312        .8439
8                .8561        .8678        .8790        .8898        .9002
8                .9103        .9201        .9297        .9391        .9483
8                .9573        .9661        .9747        .9832        .9916
8               1.0000       1.0000       1.0000       1.0000       1.0000
9 ENDTBL
```

STANDARD CONTROL INSTRUCTIONS

6	RUNOFF	1	1		6	3.2500	81.0000	.90001	1	0	1	0	1
6	REACH	3	102	6	5	3000.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	2		6	.7400	76.0000	.31001	1	0	1	0	1
6	ADDHYD	4	102	5 6	7			1	1	0	1	0	1
6	REACH	3	103	7	5	2000.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	3		6	.6200	80.0000	.28001	1	0	1	0	1
6	ADDHYD	4	103	5 6	7			1	1	0	1	0	1
6	REACH	3	104	7	5	2800.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	4		6	.6600	83.0000	.44001	1	0	1	0	1
6	ADDHYD	4	104	5 6	7			1	1	0	1	0	1
6	REACH	3	205	7	1	2200.0000	.7500	.00001	1	0	1	0	0
~~6~~	~~RUNOFF~~	~~1~~	~~7~~		~~6~~	~~2.0300~~	~~82.0000~~	~~.81001~~	~~1~~	~~0~~	~~1~~	~~0~~	~~1~~
~~6~~	~~REACH~~	~~3~~	~~106~~	~~6~~	~~5~~	~~2800.0000~~	~~.7500~~	~~.00000~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
6	RUNOFF	1	6		6	1.1000	82.0000	.58001	1	0	1	0	1
~~6~~	~~ADDHYD~~	~~4~~	~~106~~	~~5 6~~	~~7~~			~~1~~	~~1~~	~~0~~	~~1~~	~~0~~	~~1~~
6	REACH	3	105	6 ~~7~~	5	4200.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	5		6	.6800	83.0000	.20001	1	0	1	0	1
6	ADDHYD	4	105	5 6	7			1	1	0	1	0	1
6	REACH	3	205	7	5	3000.0000	.7500	.00001	1	0	0	1	0
6	ADDHYD	4	205	5 1	7			1	1	0	0	1	1
6	REACH	3	211	7	1	3200.0000	.9000	.00001	1	0	1	0	0
6	RUNOFF	1	8		6	.5200	76.0000	.45001	1	0	1	0	1
6	DIVERT	6	8	6 2	3	2000.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	109	2	5	3000.0000	.6500	.00001	1	0	1	0	0
6	RUNOFF	1	9		6	.7900	76.0000	.63001	1	0	1	0	1
6	ADDHYD	4	109	5 6	7			1	1	0	1	0	1
6	DIVERT	6	109	7 2	4	400.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	310	4	5	900.0000	.6300	.00001	1	0	1	0	1
6	DIVERT	6	310	5 4	6	300.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	410	6	5	2000.0000	.4500	.00001	0	0	1	0	0
6	RUNOFF	1	410		6	.4300	62.0000	.50001	1	0	1	0	1
6	ADDHYD	4	410	5 6	7			1	1	0	1	0	0
6	ADDHYD	4	411	2 4	5			1	1	0	0	0	1
6	SAVMOV	5	411	5	2								
6	DIVERT	6	410	7 4	6	110.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	510	6	5	3200.0000	.4500	.00001	1	0	1	0	1
6	ADDHYD	4	511	2 4	7			1	1	0	0	0	1
6	SAVMOV	5	511	7	2								
6	DIVERT	6	510	5 4	6	120.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	610	6	5	3400.0000	.4500	.00001	1	0	1	0	0
6	RUNOFF	1	610		6	.4600	62.0000	.81001	1	0	1	0	1
6	ADDHYD	4	610	5 6	7			1	1	0	1	0	0
6	ADDHYD	4	611	2 4	5			1	1	0	0	0	1
6	SAVMOV	5	611	5	2								
6	DIVERT	6	610	7 4	6	130.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	710	6	5	700.0000	.4500	.00001	1	0	1	0	1
6	ADDHYD	4	711	2 4	7			1	1	0	0	0	1
6	SAVMOV	5	711	7	2								
6	SAVMOV	5	710	5	4								
6	RUNOFF	1	209		6	.0400	76.0000	.28001	1	0	1	0	1
6	ADDHYD	4	209	3 6	7			1	1	0	0	0	0
6	REACH	3	209	7	5	5800.0000	.4700	.00001	1	0	1	0	0
6	RUNOFF	1	[illegible]		6	.2060	76.0000	.25001	1	0	1	0	1

```
6 ADDHYD 4 208   5 6 7                                  1 1 0 1 0 1
6 SAVMOV 5 208   7   6
6 ADDHYD 4 211   1 6 7                                  1 1 0 1 0 1
6 REACH  3 712   7   5    6300.0000        .7500      .00001 1 0 1 0 0
6 ADDHYD 4 712   5 4 7                                  1 1 0 1 0 1
  ENDATA
```

END OF LISTING

8

8

Be 111 177

3.25

PASS= 1

EXECUTIVE CONTROL CARD 56 OPERATION INCREM, MAIN TIME INCREMENT= .20
EXECUTIVE CONTROL CARD 57 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 3.70 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 1 Subarea 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.41	1990.436	(RUNOFF)
21.76	83.681	(RUNOFF)
23.75	71.626	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.04	.32	1.18	2.98	5.57	8.88	12.89	17.50
10.00	DISCHG	22.68	28.78	36.45	45.83	57.64	73.45	94.10	122.65	208.35	508.80
12.00	DISCHG	1107.22	1757.58	1990.14	1786.09	1402.70	1054.20	811.40	632.74	511.84	427.92
14.00	DISCHG	365.40	319.08	285.11	258.34	237.27	221.51	209.45	198.37	188.32	178.62
16.00	DISCHG	169.04	160.26	152.68	146.51	141.99	139.18	137.02	134.27	130.79	126.74
18.00	DISCHG	122.37	117.92	113.24	108.79	105.25	102.96	101.73	101.01	100.39	98.88
20.00	DISCHG	96.28	93.41	91.20	89.62	87.66	84.69	82.26	81.87	83.12	83.65
22.00	DISCHG	82.45	80.38	78.61	77.28	75.43	72.52	70.12	69.74	71.01	71.56
24.00	DISCHG	69.89	64.49	52.74	37.10	23.04	13.23	7.91	4.64	2.66	1.55
26.00	DISCHG	.89	.48	.24	.11	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8696 CFS-HRS= 3921.43 ACRE-FT= 324.07

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2 Subarea 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	270.919	(RUNOFF)
16.91	12.668	(RUNOFF)
19.32	9.387	(RUNOFF)
21.50	8.217	(RUNOFF)
23.50	7.126	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.10	.32	1.46	2.33	3.06	5.25	8.31	12.22	32.09	156.55

9

12.00	DISCHG	269.43	214.01	104.56	76.11	49.72	40.91	35.16	30.30	28.68	24.65
14.00	DISCHG	23.27	21.71	20.27	19.76	18.43	17.97	16.99	16.03	15.57	14.23
16.00	DISCHG	13.74	13.18	12.69	12.59	12.60	12.62	12.16	11.67	11.45	10.75
18.00	DISCHG	10.50	9.98	9.46	9.35	9.34	9.35	9.36	9.38	9.26	8.56
20.00	DISCHG	9.31	9.26	9.26	9.13	7.44	7.18	7.63	8.16	8.14	7.47
22.00	DISCHG	7.22	7.17	7.16	7.03	6.32	6.06	6.51	7.04	7.04	6.34
24.00	DISCHG	6.05	3.50	.79	.16	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5142 CFS-HRS= 332.25 ACRE-FT= 27.46

SUBROUTINE ADDHYD CROSS SECTION 102 Subarea 1 + 2
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.56	1975.178	(NULL)
21.78	90.666	(NULL)
23.75	77.444	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.13	.58	1.70	3.66	6.40	9.87	14.01
10.00	DISCHG	18.93	24.88	32.15	41.11	52.64	66.93	87.00	113.69	180.35	456.66
12.00	DISCHG	947.57	1478.30	1870.88	1967.05	1722.66	1365.14	1046.09	809.97	641.61	522.62
14.00	DISCHG	440.12	378.85	333.33	299.84	272.78	252.37	236.28	223.16	211.81	200.42
16.00	DISCHG	190.22	180.34	171.38	164.05	158.29	154.19	150.96	148.03	144.85	140.55
18.00	DISCHG	136.21	131.33	126.30	121.61	117.43	114.23	112.18	111.02	110.15	108.52
20.00	DISCHG	106.47	103.85	101.24	99.05	96.59	94.05	91.81	90.56	90.50	90.66
22.00	DISCHG	90.40	89.03	87.16	85.39	83.13	80.72	78.53	77.30	77.27	77.43
24.00	DISCHG	76.98	71.74	61.88	48.86	34.06	21.30	12.58	7.47	4.38	2.53
26.00	DISCHG	1.47	.83	.45	.23	.10	.03	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8357 CFS-HRS= 4253.00 ACRE-FT= 351.47

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3 Subarea 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	621.494	(RUNOFF)
16.91	25.444	(RUNOFF)
19.31	18.750	(RUNOFF)
20.30	16.500	(RUNOFF)
21.48	16.400	(RUNOFF)
23.47	14.134	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.17	.70	1.47	2.34	3.23	4.43
10.00	DISCHG	5.48	7.43	9.53	11.69	16.32	19.40	28.28	37.67	96.07	409.73
12.00	DISCHG	621.41	424.90	200.73	149.77	96.47	82.45	69.93	60.98	57.76	49.33
14.00	DISCHG	47.03	43.51	40.82	39.84	36.96	36.22	33.97	32.16	31.29	28.32
16.00	DISCHG	27.55	26.34	25.41	25.28	25.29	25.32	24.23	23.32	22.84	21.37
18.00	DISCHG	20.97	19.77	18.83	18.67	18.66	18.68	18.70	18.72	18.41	16.94
20.00	DISCHG	16.52	16.46	16.46	16.16	14.65	14.26	15.34	16.31	16.21	14.71
22.00	DISCHG	14.30	14.24	14.23	13.91	12.39	11.99	13.08	14.06	13.91	12.44
24.00	DISCHG	12.02	6.04	1.11	.19	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7961 CFS-HRS= 718.68 ACRE-FT= 59.39

SUBROUTINE ADDHYD CROSS SECTION 103 Subarea 1+2+3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	2062.084	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.08	.54	1.89	4.22	7.46	11.47	16.48
10.00	DISCHG	22.08	29.50	38.25	48.57	63.53	79.58	105.86	138.80	245.78	740.79
12.00	DISCHG	1341.17	1650.87	1879.47	2061.21	1924.79	1614.43	1269.67	986.64	782.27	630.60
14.00	DISCHG	527.89	452.44	396.48	356.12	322.93	298.58	278.11	261.70	248.60	234.20
16.00	DISCHG	222.68	211.42	201.11	192.89	186.39	181.53	176.77	172.76	169.20	163.94
18.00	DISCHG	159.25	153.42	147.53	142.53	138.11	134.47	131.90	130.32	128.99	126.21
20.00	DISCHG	123.96	121.55	118.95	116.27	112.41	109.52	108.23	107.50	106.78	105.30
22.00	DISCHG	104.82	103.89	102.27	100.15	96.59	93.86	92.66	91.98	91.24	89.80
24.00	DISCHG	89.20	80.14	67.56	55.17	41.10	27.47	16.89	10.04	5.93	3.46
26.00	DISCHG	2.00	1.15	.64	.34	.16	.06	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8295 CFS-HRS= 4970.75 ACRE-FT= 410.78

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4 Subarea 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

11

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	634.872	(RUNOFF)
19.31	21.137	(RUNOFF)
21.56	18.225	(RUNOFF)
23.56	15.656	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8.00	DISCHG	.33	.83	1.51	2.24	3.05	3.89	4.85	6.03	7.16	8.58
10.00	DISCHG	10.01	11.98	14.83	17.50	22.23	26.99	34.45	46.52	85.44	318.96
12.00	DISCHG	597.83	608.36	366.58	233.33	158.39	114.53	93.54	77.47	70.09	61.96
14.00	DISCHG	56.13	52.55	48.58	46.52	43.96	42.04	40.29	37.82	36.38	33.99
16.00	DISCHG	32.08	30.87	29.52	28.91	28.74	28.69	28.14	27.00	26.31	25.08
18.00	DISCHG	24.11	23.21	21.94	21.35	21.17	21.12	21.11	21.12	20.98	19.95
20.00	DISCHG	19.03	18.71	18.61	18.43	17.37	16.46	16.71	17.80	18.20	17.32
22.00	DISCHG	16.46	16.16	16.07	15.87	14.81	13.88	14.14	15.24	15.63	14.75
24.00	DISCHG	13.83	10.56	4.48	1.48	.49	.16	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0310 CFS-HRS= 865.09 ACRE-FT= 71.49

SUBROUTINE ADDHYD CROSS SECTION 104 Subarea 1+2+3+4
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES 12.68 PEAK DISCHARGES 2167.518 PEAK ELEVATIONS (NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8.00	DISCHG	.33	.83	1.52	2.27	3.30	4.90	7.50	11.27	15.84	21.58
10.00	DISCHG	28.16	36.34	46.96	58.84	75.50	95.24	122.45	162.48	261.45	741.40
12.00	DISCHG	1523.63	2013.53	2072.31	2159.12	2151.56	1931.64	1604.22	1271.31	1006.12	806.67
14.00	DISCHG	662.55	562.01	487.20	433.16	391.47	358.92	333.50	311.67	294.69	278.41
16.00	DISCHG	263.25	250.39	238.09	227.88	219.95	213.86	208.34	202.70	198.11	192.64
18.00	DISCHG	186.75	180.71	173.66	167.53	162.50	158.26	154.95	152.67	150.96	148.02
20.00	DISCHG	144.63	141.97	139.40	136.61	132.43	128.12	126.02	125.89	125.51	123.61
22.00	DISCHG	121.71	120.69	119.43	117.49	113.81	109.74	107.81	107.77	107.40	105.52
24.00	DISCHG	103.52	96.42	80.62	65.48	51.50	37.39	24.77	15.31	9.16	5.41
26.00	DISCHG	3.16	1.83	1.05	.58	.30	.14	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8561 CFS-HRS= 5833.56 ACRE-FT= 482.09

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 2200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .45

PEAK TIMES 12.75 PEAK DISCHARGES 2155.879 PEAK ELEVATIONS (NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
8.00	DISCHG	.19	.57	1.16	1.87	2.76	4.06	6.15	9.30	13.43	18.55
10.00	DISCHG	24.67	32.92	41.37	52.53	66.77	84.79	108.18	141.57	210.90	500.37

12.00	DISCHG	1118.02	1738.99	2021.18	2112.14	2151.51	2040.21	1774.61	1449.39	1151.39	916.84
14.00	DISCHG	742.58	618.09	528.65	463.18	414.47	376.84	347.49	323.58	304.04	287.20
16.00	DISCHG	271.44	257.40	244.73	233.45	224.31	217.22	211.34	205.73	200.62	195.54
18.00	DISCHG	189.89	183.94	177.40	170.86	165.25	160.58	156.77	153.95	151.91	149.55
20.00	DISCHG	146.43	143.43	140.79	138.10	134.62	130.43	127.24	126.05	125.71	124.56
22.00	DISCHG	122.72	121.27	120.10	118.50	115.71	111.90	108.94	107.88	107.59	106.46
24.00	DISCHG	104.59	100.01	88.71	73.61	59.06	44.97	31.61	20.53	12.62	7.54
26.00	DISCHG	4.44	2.59	1.49	.85	.46	.24	.10	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8554 CFS-HRS= 5831.29 ACRE-FT= 481.90

SUBROUTINE RUNOFF CROSS SECTION 7 Subarea 7
AREA= 2.03 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.34	1379.604	(RUNOFF)
21.75	53.538	(RUNOFF)
23.73	45.699	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 2.03

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.10	.58	1.55	3.09	5.01	7.26	9.89	12.84	16.17
10.00	DISCHG	19.81	24.17	29.71	36.62	45.35	56.43	71.22	92.94	155.14	372.24
12.00	DISCHG	855.66	1301.93	1367.62	1132.43	842.68	621.96	467.91	366.75	297.81	251.07
14.00	DISCHG	216.20	190.69	170.95	156.31	145.96	137.66	130.81	124.13	117.85	111.72
16.00	DISCHG	105.67	100.25	95.55	91.93	89.38	88.01	86.81	84.95	82.65	80.01
18.00	DISCHG	77.06	74.14	71.09	68.25	66.23	65.03	64.42	64.11	63.76	62.67
20.00	DISCHG	60.77	58.88	57.57	56.69	55.33	53.27	51.78	51.94	53.10	53.48
22.00	DISCHG	52.23	50.71	49.66	48.94	47.64	45.53	43.97	44.22	45.40	45.60
24.00	DISCHG	44.30	40.12	31.21	20.18	11.45	6.18	3.49	1.89	1.04	.55
26.00	DISCHG	.28	.13	.05	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9444 CFS-HRS= 2547.36 ACRE-FT= 210.51

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 6 Subarea 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.20	913.084	(RUNOFF)
21.63	29.411	(RUNOFF)
23.63	25.196	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.11	.56	1.38	2.45	3.67	5.05	6.68	8.43	10.42
10.00	DISCHG	12.61	15.28	18.99	23.16	29.01	36.21	45.90	61.21	108.16	340.66
12.00	DISCHG	726.14	913.06	725.21	483.07	334.92	238.02	183.20	148.12	125.71	109.84
14.00	DISCHG	97.68	89.84	83.07	78.22	74.16	70.47	67.48	63.84	60.85	57.55
16.00	DISCHG	54.12	51.71	49.47	47.93	47.28	47.03	46.46	44.96	43.62	42.02
18.00	DISCHG	40.29	38.84	36.95	35.54	34.93	34.67	34.58	34.56	34.43	33.36
20.00	DISCHG	31.88	31.01	30.65	30.34	29.21	27.71	27.36	28.45	29.40	28.85
22.00	DISCHG	27.60	26.81	26.48	26.17	25.04	23.54	23.19	24.26	25.18	24.64
24.00	DISCHG	23.25	19.62	11.99	5.51	2.41	1.04	.44	.18	.06	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9467 CFS-HRS= 1382.00 ACRE-FT= 114.21

SUBROUTINE ADDHYD CROSS SECTION 106 Subareas 6+7
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	2018.697	(NULL)
21.73	82.117	(NULL)
23.72	70.178	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.13

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.15	.83	2.28	4.49	7.35	10.73	14.73	19.20	24.25
10.00	DISCHG	29.85	36.40	44.86	54.98	68.30	84.95	106.90	139.28	222.53	572.00
12.00	DISCHG	1261.80	1895.80	2011.79	1752.46	1375.97	1022.86	767.84	592.76	476.39	396.76
14.00	DISCHG	340.18	299.78	268.77	245.53	227.97	214.31	203.35	192.78	183.23	173.67
16.00	DISCHG	164.12	155.90	148.45	142.56	138.59	136.14	134.16	131.19	127.87	123.88
18.00	DISCHG	119.43	115.07	110.21	105.84	102.68	100.64	99.51	98.93	98.44	96.74
20.00	DISCHG	93.92	91.23	89.21	87.71	85.47	82.39	80.25	80.43	81.78	82.01
22.00	DISCHG	80.57	78.56	76.92	75.65	73.56	70.50	68.31	68.47	69.85	70.03
24.00	DISCHG	68.33	62.46	49.11	33.33	20.27	11.32	6.13	3.34	1.79	.95
26.00	DISCHG	.50	.25	.11	.04	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9453 CFS-HRS= 3929.58 ACRE-FT= 324.74

SUBROUTINE REACH CROSS SECTION 105
LENGTH= 4200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .86

SUBROUTINE RUNOFF CROSS SECTION 5 Subarea 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.96	848.941	(RUNOFF)
16.90	29.804	(RUNOFF)
19.31	21.864	(RUNOFF)
20.30	19.219	(RUNOFF)
21.40	19.135	(RUNOFF)
22.36	16.596	(RUNOFF)

23.40 16.499 (RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
8.00	DISCHG	.73	1.49	2.26	3.06	3.99	4.80	6.20	7.33	8.58	10.36
10.00	DISCHG	11.56	15.34	17.79	21.40	28.31	31.48	48.48	58.08	198.33	648.64
12.00	DISCHG	832.94	358.35	194.84	157.72	100.91	94.99	76.02	70.32	65.85	55.91
14.00	DISCHG	54.90	49.23	47.47	46.01	42.66	42.34	38.54	37.32	35.85	32.41
16.00	DISCHG	32.06	30.13	29.52	29.51	29.54	29.57	27.64	27.02	26.27	24.54
18.00	DISCHG	24.36	22.36	21.75	21.71	21.72	21.74	21.76	21.78	21.06	19.31
20.00	DISCHG	19.12	19.12	19.13	18.42	16.64	16.47	18.45	19.13	18.48	16.69
22.00	DISCHG	16.51	16.50	16.51	15.78	13.99	13.81	15.82	16.49	15.81	14.03
24.00	DISCHG	13.83	3.57	.32	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0008 CFS-HRS= 878.07 ACRE-FT= 72.56

SUBROUTINE ADDHYD CROSS SECTION 105 Subarea 5+6+7 (
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	2089.392	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.81

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
8.00	DISCHG	.73	1.51	2.46	3.91	6.21	9.12	13.27	17.73	22.88	29.07
10.00	DISCHG	35.24	44.60	53.61	65.44	82.43	98.59	132.05	163.60	339.66	892.78
12.00	DISCHG	1411.64	1544.41	1951.35	2085.79	1849.00	1511.35	1154.81	885.31	693.28	555.81
14.00	DISCHG	467.46	400.42	354.81	320.46	292.43	273.46	255.23	242.35	230.20	216.96
16.00	DISCHG	207.00	195.66	186.66	179.16	173.18	168.98	164.26	161.38	157.76	152.74
18.00	DISCHG	148.68	142.35	137.33	132.58	128.29	125.03	122.85	121.56	120.12	117.69
20.00	DISCHG	115.90	113.35	110.78	107.98	104.50	102.11	101.30	99.96	99.15	98.26
22.00	DISCHG	98.26	97.10	95.32	92.97	89.74	87.49	86.76	85.38	84.53	83.65
24.00	DISCHG	83.58	71.55	62.47	50.16	35.48	22.53	13.14	7.32	4.02	2.18
26.00	DISCHG	1.17	.61	.31	.15	.06	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9547 CFS-HRS= 4806.26 ACRE-FT= 397.19

SUBROUTINE REACH CROSS SECTION 205 Subarea 5+6+7 (USE FOR INLET DESIGN FOR NEW DIVERSION @ RWCD)
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.72	2007.510	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.81

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
8.00	DISCHG	.37	.94	1.75	2.85	4.53	6.95	10.20	14.33	18.97	24.40
10.00	DISCHG	30.47	37.70	46.64	56.58	69.87	86.07	108.00	139.21	218.88	507.16
12.00	DISCHG	1011.94	1400.17	1659.92	1955.53	1988.72	1755.95	1426.62	1102.89	851.65	669.54
14.00	DISCHG	542.22	455.54	392.90	348.67	315.05	289.26	269.59	252.94	239.78	227.12
16.00	DISCHG	215.06	204.34	193.87	185.16	178.00	172.45	167.89	163.81	160.51	156.47
18.00	DISCHG	151.91	147.02	141.33	136.30	131.67	127.67	124.67	122.67	121.24	119.47
20.00	DISCHG	117.34	115.25	112.76	110.12	107.12	104.07	102.11	100.97	99.83	98.95
22.00	DISCHG	98.35	97.88	96.62	94.72	92.13	89.32	87.50	86.40	85.24	84.33
24.00	DISCHG	83.72	79.59	69.65	59.37	46.55	32.71	20.82	12.27	6.91	3.81
26.00	DISCHG	2.07	1.11	.58	.30	.14	.05	.00			

HYDROGRAPH 1 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE ADDHYD CROSS SECTION 205 Subareas 1+2+3+4+5+6+7
INPUT HYDROGRAPHS= 5,1 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.73	4162.493	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 8.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
8.00	DISCHG	.57	1.52	2.91	4.71	7.29	11.01	16.35	23.63	32.40	42.95
10.00	DISCHG	55.14	69.72	88.01	109.11	136.64	170.86	216.18	280.78	429.78	1007.54
12.00	DISCHG	2129.97	3139.16	3681.10	4067.67	4140.22	3796.16	3201.24	2552.28	2003.04	1586.39
14.00	DISCHG	1284.79	1073.63	921.55	811.85	729.52	666.10	617.08	576.52	543.81	514.33
16.00	DISCHG	486.50	461.74	438.60	418.62	402.32	389.67	379.23	369.53	361.13	352.01
18.00	DISCHG	341.80	330.96	318.73	307.16	296.92	288.25	281.44	276.62	273.14	269.01
20.00	DISCHG	263.77	258.68	253.55	248.23	241.73	234.49	229.36	227.02	225.54	223.51
22.00	DISCHG	221.08	219.16	216.71	213.22	207.84	201.23	196.44	194.28	192.83	190.80
24.00	DISCHG	188.31	179.61	158.36	132.98	105.61	77.68	52.44	32.80	19.53	11.35
26.00	DISCHG	6.51	3.70	2.08	1.14	.60	.29	.10	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9003 CFS-HRS= 10645.24 ACRE-FT= 879.72

HYDROGRAPH 2 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 3200.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.78	4123.238	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 8.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
8.00	DISCHG	.44	1.27	2.54	4.24	6.61	10.03	14.95	21.72	30.09	40.18
10.00	DISCHG	51.94	65.89	83.21	103.57	129.41	161.87	204.27	263.81	390.66	855.88

12.00	DISCHG	1835.24	2873.96	3538.55	3966.05	4121.05	3886.42	3357.46	2722.77	2147.38	1695.91
14.00	DISCHG	1364.08	1129.14	961.53	840.69	751.16	682.77	629.97	587.18	552.41	522.07
16.00	DISCHG	493.81	468.25	444.68	423.87	406.60	393.00	381.97	372.08	363.34	354.41
18.00	DISCHG	344.48	333.81	321.94	310.20	299.61	290.53	283.23	277.89	274.06	270.10
20.00	DISCHG	265.14	260.02	254.90	249.62	243.44	236.40	230.71	227.63	225.93	224.04
22.00	DISCHG	221.72	219.66	217.36	214.14	209.25	202.96	197.70	194.85	193.21	191.33
24.00	DISCHG	188.96	181.89	163.94	139.64	112.80	85.01	59.07	37.96	23.02	13.50
26.00	DISCHG	7.78	4.44	2.50	1.39	.74	.37	.15	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9002 CFS-HRS= 10644.53 ACRE-FT= 879.66

SUBROUTINE RUNOFF CROSS SECTION 8 Subarea 8A
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	363.383	(RUNOFF)
19.33	14.335	(RUNOFF)
21.57	12.430	(RUNOFF)
23.57	10.716	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.16	.71	1.67	2.85	4.72	6.91	10.25	15.65	33.53	150.35
12.00	DISCHG	319.52	357.05	227.60	148.69	102.15	74.62	61.29	50.95	46.05	40.89
14.00	DISCHG	37.05	34.76	32.22	30.87	29.22	27.96	26.86	25.28	24.33	22.77
16.00	DISCHG	21.50	20.70	19.83	19.42	19.31	19.29	18.95	18.22	17.75	16.96
18.00	DISCHG	16.31	15.71	14.88	14.46	14.34	14.31	14.31	14.33	14.25	13.57
20.00	DISCHG	12.95	12.73	12.67	12.56	11.86	11.23	11.39	12.11	12.42	11.85
22.00	DISCHG	11.26	11.05	10.99	10.87	10.16	9.52	9.68	10.41	10.71	10.14
24.00	DISCHG	9.51	7.34	3.21	1.09	.37	.12	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5145 CFS-HRS= 508.26 ACRE-FT= 42.00

SUBROUTINE DIVERT CROSS SECTION 9
INPUT HYDROGRAPH= 6 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.39	315.975	(NULL)
21.79	12.218	(NULL)
23.79	10.506	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.17	.64	1.46	2.60	4.27	6.41	9.58	15.51	39.35
12.00	DISCHG	132.30	264.84	315.64	247.32	174.88	122.12	88.12	68.64	55.99	48.64
14.00	DISCHG	42.93	38.66	35.72	33.18	31.43	29.79	28.42	27.19	25.78	24.63
16.00	DISCHG	23.22	21.96	21.01	20.16	19.64	19.41	19.29	18.99	18.41	17.88
18.00	DISCHG	17.18	16.52	15.88	15.15	14.66	14.44	14.35	14.33	14.32	14.21
20.00	DISCHG	13.71	13.17	12.86	12.72	12.54	12.01	11.49	11.49	11.95	12.22
22.00	DISCHG	11.91	11.44	11.17	11.03	10.85	10.31	9.78	9.78	10.24	10.51
24.00	DISCHG	10.19	9.51	7.61	4.38	2.04	.87	.35	.13	.04	.00

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 506.14 ACRE-FT= 41.83

SUBROUTINE RUNOFF CROSS SECTION 9 Subarea 9A
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.24	481.992	(RUNOFF)
21.65	18.565	(RUNOFF)
23.65	15.935	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.13	.65	1.70	3.22	5.43	8.35	12.43	18.82	39.63	137.86
12.00	DISCHG	334.21	478.10	414.47	293.92	209.40	152.30	116.77	94.61	80.18	69.84
14.00	DISCHG	61.56	56.19	52.05	48.86	46.33	44.06	42.17	40.04	38.11	36.16
16.00	DISCHG	34.10	32.52	31.14	30.14	29.65	29.44	29.10	28.31	27.49	26.53
18.00	DISCHG	25.48	24.53	23.45	22.54	22.07	21.87	21.80	21.78	21.69	21.14
20.00	DISCHG	20.28	19.68	19.42	19.21	18.59	17.71	17.38	17.91	18.54	18.32
22.00	DISCHG	17.61	17.08	16.84	16.64	16.02	15.10	14.76	15.33	15.91	15.72
24.00	DISCHG	14.94	12.96	8.44	4.24	1.98	.93	.42	.19	.08	.03
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5135 CFS-HRS= 771.66 ACRE-FT= 63.77

SUBROUTINE ADDHYD CROSS SECTION 109 Subarea 8A + 9A
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.29	772.988	(NULL)
21.71	30.652	(NULL)
23.71	26.337	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.15	.82	2.34	4.68	8.03	12.62	18.85	28.40	55.14	177.21
12.00	DISCHG	466.51	742.94	730.12	541.24	384.27	274.42	204.89	163.26	136.17	118.48

14.00	DISCHG	104.49	94.85	87.77	82.04	77.76	73.84	70.59	67.23	63.89	60.79
16.00	DISCHG	57.33	54.47	52.15	50.29	49.29	48.85	48.39	47.30	45.90	44.41
18.00	DISCHG	42.67	41.05	39.33	37.69	36.73	36.31	36.15	36.11	36.01	35.35
20.00	DISCHG	34.00	32.85	32.28	31.93	31.13	29.72	28.87	29.41	30.49	30.54
22.00	DISCHG	29.52	28.53	28.01	27.67	26.87	25.42	24.55	25.11	26.15	26.22
24.00	DISCHG	25.13	22.47	16.05	8.62	4.03	1.80	.77	.32	.12	.03
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.5063 CFS-HRS= 1277.80 ACRE-FT= 105.60

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310 TOTAL FLOW @ Bridge NO. 3
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	330.309	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	45.38	253.77	328.59	201.17	48.65	3.06	.19	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3501 CFS-HRS= 178.51 ACRE-FT= 14.75

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.63	13.113	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0121 CFS-HRS= 6.19 ACRE-FT= .51

SUBROUTINE RUNOFF CROSS SECTION 410 Subarea 10A
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	112.862	(RUNOFF)
16.21	10.006	(RUNOFF)
[illegible]	7.668	(RUNOFF)

21.60	6.679	(RUNOFF)
23.59	5.813	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	66.98	111.99	88.81	63.28	47.42	35.79	29.83	25.20	.33	13.39
14.00	DISCHG	18.40	17.27	16.11	15.42	14.72	14.11	13.63	12.90	22.48	20.25
16.00	DISCHG	11.09	10.69	10.27	10.04	9.99	9.99	9.87	9.54	12.42	11.74
18.00	DISCHG	8.61	8.32	7.91	7.66	7.59	7.58	7.59	7.61	9.30	8.95
20.00	DISCHG	6.97	6.83	6.79	6.74	6.43	6.09	6.12	6.47	7.58	7.30
22.00	DISCHG	6.15	6.01	5.97	5.91	5.60	5.25	5.27	5.62	6.68	6.46
24.00	DISCHG	5.27	4.27	2.16	.81	.31	.12	.04	.01	5.81	5.59
										.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7115 CFS-HRS= 197.45 ACRE-FT= 16.32

SUBROUTINE ADDHYD CROSS SECTION 410 Total Flow @ Bridge No. 4 (Subareas 8A, 9A & 10A)
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	112.996	(NULL)
16.91	10.006	(NULL)
19.38	7.608	(NULL)
21.60	6.679	(NULL)
23.59	5.813	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	66.98	111.99	90.18	76.19	54.21	39.36	31.70	26.19	.33	13.39
14.00	DISCHG	18.54	17.34	16.15	15.45	14.73	14.11	13.63	12.90	23.00	20.52
16.00	DISCHG	11.09	10.69	10.27	10.04	9.99	9.99	9.87	9.54	12.42	11.74
18.00	DISCHG	8.61	8.32	7.91	7.66	7.59	7.58	7.59	7.61	9.30	8.95
20.00	DISCHG	6.97	6.83	6.79	6.74	6.43	6.09	6.12	6.47	7.58	7.30
22.00	DISCHG	6.15	6.01	5.97	5.91	5.60	5.25	5.27	5.62	6.68	6.46
24.00	DISCHG	5.27	4.27	2.16	.81	.31	.12	.04	.01	5.81	5.59
										.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2586 CFS-HRS= 203.64 ACRE-FT= 16.83

SUBROUTINE ADDHYD CROSS SECTION 411 Flow Thru Bridges 2 & 3
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	702.407	(NULL)
21.71	30.652	(NULL)
23.71	26.337	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.15	.82	2.34	4.68	8.03	12.62	18.85	28.40	55.14	177.21
12.00	DISCHG	445.38	653.77	700.00	601.17	432.92	277.48	205.09	163.26	136.17	118.48
14.00	DISCHG	104.49	94.85	87.77	82.04	77.76	73.84	70.59	67.23	63.89	60.79
16.00	DISCHG	57.33	54.47	52.15	50.29	48.29	48.85	48.39	47.30	45.90	44.41
18.00	DISCHG	42.67	41.05	39.33	37.69	36.73	36.31	36.15	36.11	36.01	35.35
20.00	DISCHG	34.00	32.85	32.28	31.93	31.13	29.72	28.87	29.41	30.49	30.54
22.00	DISCHG	29.52	28.53	28.01	27.67	26.87	25.42	24.55	25.11	26.15	26.22
24.00	DISCHG	25.13	22.47	16.05	8.62	4.03	1.80	.77	.32	.12	.03
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1270.49 ACRE-FT= 104.99

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510 TOTAL FLOW @ Bridge NO. 5
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.63	.562	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.34	.56	.43	.28	.17	.10	.05	.03
14.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0005 CFS-HRS= .39 ACRE-FT= .03

SUBROUTINE ADDHYD CROSS SECTION 511 FLOW Thru Bridges 2, 3 & 4
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.34	796.910	(NULL)
21.68	37.277	(NULL)
23.68	32.072	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

21

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.15	.82	2.34	4.68	8.03	12.62	18.85	28.40	55.47	190.59
12.00	DISCHG	512.36	763.77	790.18	677.35	487.13	316.83	236.79	189.44	159.17	139.01
14.00	DISCHG	123.03	112.20	103.92	97.49	92.49	87.95	84.21	80.13	76.31	72.53
16.00	DISCHG	68.42	65.16	62.42	60.34	59.27	58.84	58.26	56.84	55.21	53.36
18.00	DISCHG	51.28	49.37	47.24	45.35	44.33	43.89	43.74	43.72	43.59	42.65
20.00	DISCHG	40.97	39.68	39.07	38.67	37.56	35.81	34.99	35.88	37.17	37.00
22.00	DISCHG	35.66	34.54	33.98	33.59	32.47	30.67	29.82	30.73	31.97	31.81
24.00	DISCHG	30.39	26.74	18.21	9.43	4.34	1.91	.81	.33	.12	.03
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1473.60 ACRE-FT= 121.78

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610 Subarea 1B
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	88.140	(RUNOFF)
21.76	6.976	(RUNOFF)
23.73	6.047	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.39	5.39
12.00	DISCHG	30.19	67.05	86.85	82.76	67.86	53.82	43.22	35.68	30.32	26.47
14.00	DISCHG	23.44	21.18	19.37	17.96	16.93	16.09	15.39	14.70	14.04	13.38
16.00	DISCHG	12.72	12.12	11.60	11.21	10.94	10.82	10.71	10.51	10.26	9.97
18.00	DISCHG	9.63	9.29	8.93	8.60	8.37	8.24	8.18	8.16	8.13	8.01
20.00	DISCHG	7.79	7.56	7.41	7.31	7.15	6.89	6.71	6.75	6.91	6.97

22.00	DISCHG	6.82	6.63	6.51	6.42	6.26	5.99	5.79	5.84	6.00	6.04
24.00	DISCHG	5.87	5.32	4.14	2.68	1.52	.82	.46	.25	.14	.07
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7100 CFS-HRS= 210.78 ACRE-FT= 17.42

SUBROUTINE ADDHYD CROSS SECTION 610 Total Flow at Brdg No 6
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	88.140	(NULL)
21.76	6.976	(NULL)
23.73	6.047	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.39	5.39
12.00	DISCHG	30.19	67.05	86.85	82.76	67.86	53.82	43.22	35.68	30.32	26.47
14.00	DISCHG	23.44	21.18	19.37	17.96	16.93	16.09	15.39	14.70	14.04	13.38
16.00	DISCHG	12.72	12.12	11.60	11.21	10.94	10.82	10.71	10.51	10.26	9.97
18.00	DISCHG	9.63	9.29	8.93	8.60	8.37	8.24	8.18	8.16	8.13	8.01
20.00	DISCHG	7.79	7.56	7.41	7.31	7.15	6.89	6.71	6.75	6.91	6.97
22.00	DISCHG	6.82	6.63	6.51	6.42	6.26	5.99	5.79	5.84	6.00	6.04
24.00	DISCHG	5.87	5.32	4.14	2.68	1.52	.82	.46	.25	.14	.07
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1944 CFS-HRS= 210.78 ACRE-FT= 17.42

SUBROUTINE ADDHYD CROSS SECTION 611 Flow Thru Brdg 2,3,4 & 5
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.34	797.155	(NULL)
21.68	37.277	(NULL)
23.68	32.072	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.15	.82	2.34	4.68	8.03	12.62	18.85	28.40	55.47	190.59
12.00	DISCHG	512.36	763.77	790.52	677.91	487.56	317.11	236.95	189.54	159.23	139.04
14.00	DISCHG	123.05	112.20	103.92	97.49	92.49	87.95	84.21	80.13	76.31	72.53
16.00	DISCHG	68.42	65.16	62.42	60.34	59.27	58.84	58.26	56.84	55.21	53.36
18.00	DISCHG	51.28	49.37	47.24	45.35	44.33	43.89	43.74	43.72	43.59	42.65
20.00	DISCHG	40.97	39.68	39.07	38.67	37.56	35.81	34.99	35.88	37.17	37.00
22.00	DISCHG	35.66	34.54	33.98	33.59	32.47	30.67	29.82	30.73	31.97	31.81
24.00	DISCHG	30.39	26.74	18.21	9.43	4.34	1.91	.81	.33	.12	.03
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1473.99 ACRE-FT= 121.81

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 710 (INLET FLW @ RWRD Above RR)
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68
.00 DISCHG .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 711 Flow Thru Bridges 2, 3, 4, 5 & 6
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	881.160	(NULL)
21.69	44.224	(NULL)
23.68	38.104	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.15	.82	2.34	4.68	8.03	12.62	18.85	28.40	55.85	195.98
12.00	DISCHG	542.55	830.82	877.36	760.67	555.42	370.93	280.17	225.21	189.55	165.50
14.00	DISCHG	146.49	133.38	123.30	115.45	109.41	104.04	99.61	94.83	90.35	85.90
16.00	DISCHG	81.13	77.28	74.02	71.54	70.21	69.65	68.97	67.36	65.47	63.33
18.00	DISCHG	60.90	58.66	56.17	53.95	52.69	52.12	51.92	51.88	51.72	50.66
20.00	DISCHG	48.75	47.24	46.48	45.98	44.71	42.70	41.70	42.62	44.08	43.97
22.00	DISCHG	42.48	41.17	40.49	40.01	38.73	36.66	35.61	36.56	37.97	37.85
24.00	DISCHG	36.27	32.07	22.36	12.11	5.86	2.73	1.27	.58	.26	.10
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1684.78 ACRE-FT= 139.23

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209 Subarea 9B
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	33.265	(RUNOFF)
16.91	1.492	(RUNOFF)
19.32	1.105	(RUNOFF)
20.30	.974	(RUNOFF)
21.48	.970	(RUNOFF)
22.30	.845	(RUNOFF)
23.47	.838	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.03	.09	.18	.29	.48	.64	1.03	1.49	4.24	20.27
12.00	DISCHG	33.21	23.45	11.27	8.51	5.51	4.73	4.02	3.52	3.34	2.85
14.00	DISCHG	2.72	2.52	2.37	2.32	2.15	2.11	1.98	1.88	1.83	1.65
16.00	DISCHG	1.61	1.54	1.49	1.48	1.48	1.48	1.42	1.37	1.34	1.26
18.00	DISCHG	1.23	1.16	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.00
20.00	DISCHG	.98	.97	.97	.95	.87	.84	.91	.96	.96	.87
22.00	DISCHG	.85	.84	.84	.82	.73	.71	.78	.83	.82	.74
24.00	DISCHG	.71	.36	.07	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5106 CFS-HRS= 39.00 ACRE-FT= 3.22

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	33.265	(NULL)
16.91	1.492	(NULL)
19.32	1.105	(NULL)
20.30	.974	(NULL)
21.48	.970	(NULL)
22.30	.845	(NULL)
23.47	.838	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.03	.09	.18	.29	.48	.64	1.03	1.49	4.24	20.27
12.00	DISCHG	33.21	23.45	11.27	8.51	5.51	4.73	4.02	3.52	3.34	2.85
14.00	DISCHG	2.72	2.52	2.37	2.32	2.15	2.11	1.98	1.88	1.83	1.65
16.00	DISCHG	1.61	1.54	1.49	1.48	1.48	1.48	1.42	1.37	1.34	1.26
18.00	DISCHG	1.23	1.16	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.00
20.00	DISCHG	.98	.97	.97	.95	.87	.84	.91	.96	.96	.87
22.00	DISCHG	.85	.84	.84	.82	.73	.71	.78	.83	.82	.74
24.00	DISCHG	.71	.36	.07	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.95	16.168	(NULL)
22.13	.924	(NULL)
24.13	.792	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.01	.03	.07	.14	.23	.36	.55
12.00	DISCHG	.97	2.77	7.13	12.42	15.65	16.11	14.75	12.57	10.33	8.36
14.00	DISCHG	6.78	5.58	4.66	3.98	3.48	3.10	2.82	2.60	2.43	2.28
16.00	DISCHG	2.16	2.04	1.93	1.83	1.74	1.67	1.60	1.56	1.53	1.50
18.00	DISCHG	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.16	1.14	1.12
20.00	DISCHG	1.11	1.10	1.08	1.05	1.03	1.01	.99	.96	.93	.92
22.00	DISCHG	.92	.92	.91	.90	.88	.87	.85	.82	.80	.79
24.00	DISCHG	.79	.79	.78	.74	.65	.51	.37	.26	.17	.11
26.00	DISCHG	.07	.04	.02	.01	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1077 CFS-HRS= 38.92 ACRE-FT= 3.22

SUBROUTINE RUNOFF CROSS SECTION 208 Subarea 8B
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	130.887	(RUNOFF)
21.79	6.480	(RUNOFF)
23.76	5.552	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.11	.31	.67	1.22	1.98	3.05	4.56	9.47	26.57
12.00	DISCHG	62.76	106.44	129.74	123.02	101.53	78.44	61.18	48.82	39.71	33.20
14.00	DISCHG	28.31	24.81	22.13	20.06	18.41	17.09	16.10	15.26	14.48	13.75
16.00	DISCHG	13.02	12.36	11.77	11.28	10.93	10.70	10.53	10.33	10.08	9.78
18.00	DISCHG	9.45	9.12	8.77	8.43	8.16	7.97	7.86	7.80	7.75	7.64
20.00	DISCHG	7.46	7.25	7.08	6.95	6.80	6.58	6.40	6.35	6.42	6.48
22.00	DISCHG	6.41	6.25	6.11	6.01	5.88	5.66	5.48	5.43	5.50	5.55
24.00	DISCHG	5.44	5.05	4.22	3.07	2.00	1.21	.73	.43	.26	.16
26.00	DISCHG	.09	.05	.03	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5115 CFS-HRS= 273.13 ACRE-FT= 22.57

SUBROUTINE ADDHYD CROSS SECTION 208 Subarea 8B+9B (USE FOR INLET DESIGN @ CANAL OR EXISTING LOWER DNERSIDE)
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	139.827	(NULL)
21.78	7.400	(NULL)
23.75	6.341	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .84

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.11	.31	.68	1.25	2.06	3.19	4.79	9.83	27.12
12.00	DISCHG	63.73	109.21	136.87	135.44	117.18	94.55	75.93	61.39	50.04	41.56
14.00	DISCHG	35.10	30.38	26.79	24.04	21.89	20.19	18.92	17.86	16.91	16.03
16.00	DISCHG	15.18	14.40	13.70	13.11	12.68	12.37	12.13	11.89	11.60	11.27
18.00	DISCHG	10.91	10.54	10.14	9.76	9.44	9.21	9.05	8.96	8.89	8.77
20.00	DISCHG	8.58	8.35	8.15	8.00	7.83	7.59	7.38	7.30	7.35	7.40
22.00	DISCHG	7.33	7.18	7.03	6.91	6.76	6.53	6.33	6.25	6.30	6.34
24.00	DISCHG	6.23	5.84	5.00	3.82	2.65	1.72	1.10	.69	.43	.26
26.00	DISCHG	.16	.09	.05	.03	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5756 CFS-HRS= 312.05 ACRE-FT= 25.79

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 211 Subareas 1+2+3+4+5+6+7+8A+8B+9A+9B
INPUT HYDROGRAPHS= 1,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.77	4242.997	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
8.00	DISCHG	.44	1.27	2.54	4.24	6.61	10.03	14.95	21.72	30.09	40.18
10.00	DISCHG	51.96	66.00	83.52	104.24	130.66	163.92	207.46	268.60	400.49	883.00
12.00	DISCHG	1898.96	2983.17	3675.41	4101.49	4238.24	3980.97	3433.40	2784.17	2197.42	1737.47
14.00	DISCHG	1399.18	1159.53	988.32	864.73	773.05	702.96	648.89	605.04	569.32	538.11
16.00	DISCHG	508.99	482.65	458.38	436.98	419.28	405.37	394.11	383.97	374.95	365.68
18.00	DISCHG	355.40	344.35	332.09	319.96	309.05	299.73	292.28	286.85	282.94	278.87
20.00	DISCHG	273.72	268.37	263.05	257.62	251.27	243.99	238.09	234.94	233.28	231.44
22.00	DISCHG	229.05	226.84	224.39	221.04	216.01	209.50	204.03	201.10	199.51	197.67
24.00	DISCHG	195.20	187.73	168.94	143.46	115.44	86.74	60.17	38.65	23.45	13.76
26.00	DISCHG	7.94	4.53	2.56	1.42	.76	.37	.15	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7833 CFS-HRS= 10956.58 ACRE-FT= 905.45

SUBROUTINE REACH CROSS SECTION 212

LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COFFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.09	4119.480	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.04	.26	.83	1.82	3.24	5.22	8.03	12.08	17.73	25.05
10.00	DISCHG	34.04	44.73	57.41	72.90	91.57	114.73	143.87	181.42	232.58	328.02
12.00	DISCHG	633.24	1347.60	2320.64	3172.18	3767.67	4086.80	4065.36	3717.96	3169.14	2578.23
14.00	DISCHG	2056.22	1643.46	1337.28	1116.11	956.83	840.68	753.95	687.93	636.10	594.43
16.00	DISCHG	559.53	528.46	500.29	474.56	451.41	431.48	415.18	402.03	390.87	381.05
18.00	DISCHG	371.69	361.88	351.31	339.76	327.75	316.29	306.07	297.49	290.79	285.83
20.00	DISCHG	281.56	276.88	271.75	266.47	261.11	255.21	248.49	242.08	237.48	234.73
22.00	DISCHG	232.69	230.52	228.28	225.93	223.04	218.94	213.38	207.65	203.44	200.88
24.00	DISCHG	198.90	196.70	191.69	178.96	158.27	132.70	104.95	77.60	53.46	34.55
26.00	DISCHG	21.26	12.66	7.38	4.23	2.39	1.32	.70	.34	.12	.03
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7832 CFS-HRS= 10955.82 ACRE-FT= 905.39

SUBROUTINE ADDHYD CROSS SECTION 712 (TOTAL RWCD FLOW AT RR FROM ALL SUBAREAS)
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.09	4119.480	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 11.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.04	.26	.83	1.82	3.24	5.22	8.03	12.08	17.73	25.05
10.00	DISCHG	34.04	44.73	57.41	72.90	91.57	114.73	143.87	181.42	232.58	328.02
12.00	DISCHG	633.24	1347.60	2320.64	3172.18	3767.67	4086.80	4065.36	3717.96	3169.14	2578.23
14.00	DISCHG	2056.22	1643.46	1337.28	1116.11	956.83	840.68	753.95	687.93	636.10	594.43
16.00	DISCHG	559.53	528.46	500.29	474.56	451.41	431.48	415.18	402.03	390.87	381.05
18.00	DISCHG	371.69	361.88	351.31	339.76	327.75	316.29	306.07	297.49	290.79	285.83
20.00	DISCHG	281.56	276.88	271.75	266.47	261.11	255.21	248.49	242.08	237.48	234.73
22.00	DISCHG	232.69	230.52	228.28	225.93	223.04	218.94	213.38	207.65	203.44	200.88
24.00	DISCHG	198.90	196.70	191.69	178.96	158.27	132.70	104.95	77.60	53.46	34.55
26.00	DISCHG	21.26	12.66	7.38	4.23	2.39	1.32	.70	.34	.12	.03
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5157 CFS-HRS= 10955.82 ACRE-FT= 905.39

ENDCMP

Basin 25-[illegible]

PASS= 2

EXECUTIVE CONTROL CARD 59 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 2.80 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 2 3

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	1203.543	(RUNOFF)
21.76	57.343	(RUNOFF)
23.75	49.226	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
10.00	DISCHG	.45	1.63	4.09	7.83	13.10	20.64	30.95	45.57	91.34	261.56
12.00	DISCHG	619.13	1030.67	1201.30	1099.94	877.55	666.93	518.71	408.43	333.20	280.54
14.00	DISCHG	241.00	211.50	189.76	172.59	158.98	148.69	140.79	133.50	126.88	120.46
16.00	DISCHG	114.11	108.28	103.24	99.14	96.16	94.33	92.93	91.12	88.81	86.12
18.00	DISCHG	83.19	80.21	77.07	74.08	71.70	70.18	69.37	68.91	68.52	67.51
20.00	DISCHG	65.77	63.83	62.34	61.29	59.97	57.96	56.32	56.07	56.94	57.33
22.00	DISCHG	56.52	55.12	53.92	53.02	51.77	49.79	48.15	47.91	48.79	49.18
24.00	DISCHG	48.05	44.34	36.27	25.52	15.85	9.10	5.44	3.19	1.83	1.07
26.00	DISCHG	.61	.33	.17	.07	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1603 CFS-HRS= 2433.62 ACRE-FT= 201.11

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	151.386	(RUNOFF)
16.91	8.215	(RUNOFF)
19.33	6.137	(RUNOFF)
20.30	5.427	(RUNOFF)
21.50	5.411	(RUNOFF)
23.50	4.702	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.84	2.48	11.04	73.77

12.00	DISCHG	147.96	125.26	62.93	46.85	30.94	25.64	22.13	19.13	18.17	15.65
14.00	DISCHG	14.81	13.85	12.95	12.64	11.81	11.54	10.92	10.31	10.03	9.18
16.00	DISCHG	8.87	8.52	8.21	8.16	8.17	8.19	7.90	7.59	7.44	6.99
18.00	DISCHG	6.84	6.50	6.17	6.10	6.10	6.11	6.12	6.13	6.06	5.61
20.00	DISCHG	5.44	5.42	5.42	5.34	4.88	4.72	5.01	5.36	5.35	4.92
22.00	DISCHG	4.75	4.72	4.72	4.63	4.16	4.00	4.29	4.64	4.64	4.19
24.00	DISCHG	3.98	2.31	.52	.11	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8828 CFS-HRS= 193.70 ACRE-FT= 16.01

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	1193.662	(NULL)
21.80	61.911	(NULL)
23.77	53.040	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10.00	DISCHG	.19	.81	2.34	5.08	9.20	15.12	24.14	37.24	70.36	217.37
12.00	DISCHG	512.25	846.02	1107.26	1192.49	1063.14	854.55	662.24	518.01	414.14	340.05
14.00	DISCHG	288.28	249.54	220.58	199.17	181.81	168.62	158.15	149.57	142.13	134.64
16.00	DISCHG	127.91	121.38	115.44	110.59	106.77	104.08	101.98	100.07	97.99	95.15
18.00	DISCHG	92.26	89.01	85.65	82.51	79.71	77.57	76.21	75.45	74.90	73.83
20.00	DISCHG	72.47	70.71	68.96	67.50	65.85	64.15	62.63	61.77	61.76	61.91
22.00	DISCHG	61.76	60.84	59.58	58.38	56.87	55.24	53.74	52.90	52.90	53.03
24.00	DISCHG	52.75	49.23	42.53	33.60	23.43	14.65	8.65	5.14	3.01	1.74
26.00	DISCHG	1.01	.57	.31	.16	.07	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1338 CFS-HRS= 2626.97 ACRE-FT= 217.09

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	374.126	(RUNOFF)
16.91	17.121	(RUNOFF)
19.32	12.698	(RUNOFF)
20.31	11.197	(RUNOFF)
21.48	11.153	(RUNOFF)
22.30	9.720	(RUNOFF)
23.47	9.641	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.01	.35	1.22	2.35	4.33	6.14	10.35	15.33	45.32	223.57
12.00	DISCHG	373.26	265.57	128.06	97.03	62.94	54.04	45.98	40.20	38.16	32.65
14.00	DISCHG	31.18	28.90	27.15	26.53	24.65	24.18	22.70	21.51	20.95	18.98
16.00	DISCHG	18.47	17.68	17.07	16.99	17.01	17.04	16.32	15.72	15.40	14.42
18.00	DISCHG	14.16	13.36	12.72	12.62	12.62	12.64	12.66	12.68	12.47	11.48
20.00	DISCHG	11.21	11.17	11.17	10.97	9.95	9.69	10.42	11.09	11.02	10.01
22.00	DISCHG	9.74	9.69	9.69	9.48	8.45	8.17	8.92	9.59	9.49	8.49
24.00	DISCHG	8.20	4.12	.76	.13	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1008 CFS-HRS= 440.45 ACRE-FT= 36.40

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.64	1246.458	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.12	.88	2.85	6.16	11.61	18.49	30.27	46.44	100.46	374.19
12.00	DISCHG	749.24	953.36	1108.10	1243.06	1180.89	1005.49	800.60	628.78	503.39	409.19
14.00	DISCHG	345.01	297.44	261.93	236.21	214.91	199.25	185.96	175.25	166.68	157.21
16.00	DISCHG	149.63	142.19	135.37	129.94	125.64	122.45	119.33	116.71	114.38	110.90
18.00	DISCHG	107.80	103.91	99.98	96.64	93.68	91.25	89.54	88.51	87.64	85.81
20.00	DISCHG	84.32	82.71	80.97	79.18	76.59	74.65	73.79	73.30	72.82	71.85
22.00	DISCHG	71.56	70.95	69.86	68.44	66.03	64.19	63.38	62.91	62.41	61.47
24.00	DISCHG	61.08	54.93	46.39	37.93	28.26	18.89	11.62	6.91	4.08	2.38
26.00	DISCHG	1.38	.79	.44	.23	.11	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1288 CFS-HRS= 3067.06 ACRE-FT= 253.46

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	399.431	(RUNOFF)
19.32	14.661	(RUNOFF)
21.56	12.686	(RUNOFF)
23.96	10.925	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.07	.40	.95	1.66
10.00	DISCHG	2.46	3.49	4.90	6.39	8.83	11.47	15.61	22.27	44.37	182.85
12.00	DISCHG	366.02	387.38	237.65	153.68	105.45	76.86	63.15	52.47	47.59	42.14
14.00	DISCHG	38.23	35.84	33.18	31.81	30.09	28.80	27.63	25.96	24.99	23.37
16.00	DISCHG	22.07	21.25	20.33	19.93	19.82	19.80	19.43	18.65	18.18	17.34
18.00	DISCHG	16.68	16.06	15.19	14.79	14.67	14.64	14.64	14.65	14.56	13.85
20.00	DISCHG	13.21	13.00	12.93	12.81	12.08	11.45	11.63	12.39	12.67	12.06
22.00	DISCHG	11.47	11.26	11.20	11.06	10.32	9.68	9.87	10.63	10.91	10.30
24.00	DISCHG	9.65	7.37	3.13	1.04	.34	.11	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2891 CFS-HRS= 549.08 ACRE-FT= 45.38

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.72	1322.746	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.07	.40	.95	1.67
10.00	DISCHG	2.51	3.88	6.46	10.32	16.76	25.20	37.92	57.60	109.64	381.43
12.00	DISCHG	858.69	1180.95	1228.96	1297.71	1312.82	1195.37	1006.04	806.53	645.08	522.03
14.00	DISCHG	432.24	369.17	321.81	287.44	260.75	239.82	223.38	209.13	198.02	187.30
16.00	DISCHG	177.28	168.79	160.64	153.88	148.65	144.64	141.01	137.28	134.26	130.63
18.00	DISCHG	126.72	122.69	117.97	113.87	110.50	107.68	105.48	103.97	102.85	100.88
20.00	DISCHG	98.62	96.85	95.14	93.27	90.44	87.53	86.13	86.08	85.84	84.56
22.00	DISCHG	83.29	82.63	81.79	80.48	77.98	75.22	73.92	73.92	73.68	72.40
24.00	DISCHG	71.05	66.19	55.35	44.99	35.41	25.72	17.04	10.53	6.30	3.72
26.00	DISCHG	2.17	1.26	.72	.40	.21	.08	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1503 CFS-HRS= 3615.30 ACRE-FT= 298.77

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 2200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.79	1302.520	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.03	.23	.66	1.29

10.00	DISCHG	2.07	3.17	5.13	8.31	13.41	20.76	31.28	47.35	83.12	245.11
12.00	DISCHG	612.08	1001.99	1190.84	1260.70	1302.38	1252.52	1104.12	912.93	733.36	589.89
14.00	DISCHG	482.03	404.32	348.03	306.52	275.47	251.34	232.42	216.89	204.13	193.08
16.00	DISCHG	182.69	173.42	165.04	157.57	151.53	146.85	142.98	139.28	135.91	132.56
18.00	DISCHG	128.81	124.85	120.47	116.10	112.35	109.22	106.69	104.81	103.47	101.90
20.00	DISCHG	99.82	97.82	96.06	94.26	91.92	89.09	86.95	86.17	85.96	85.20
22.00	DISCHG	83.97	83.01	82.23	81.17	79.27	76.69	74.68	73.98	73.80	73.04
24.00	DISCHG	71.77	68.65	60.90	50.55	40.58	30.92	21.74	14.12	8.68	5.19
26.00	DISCHG	3.05	1.78	1.03	.58	.32	.15	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1498 CFS-HRS= 3613.86 ACRE-FT= 298.65

SUBROUTINE RUNOFF CROSS SECTION 7
AREA= 2.03 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	848.055	(RUNOFF)
21.75	36.978	(RUNOFF)
23.73	31.649	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 2.03

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.15	.72
10.00	DISCHG	1.82	3.65	6.17	9.50	13.85	19.54	27.35	38.94	73.27	198.34
12.00	DISCHG	493.95	783.70	844.75	712.57	537.53	401.01	304.77	240.90	197.11	167.17
14.00	DISCHG	144.66	128.13	115.27	105.65	98.81	93.32	88.78	84.33	80.14	76.04
16.00	DISCHG	71.99	68.35	65.19	62.77	61.07	60.17	59.39	58.15	56.61	54.83
18.00	DISCHG	52.84	50.86	48.79	46.87	45.50	44.70	44.30	44.10	43.88	43.14
20.00	DISCHG	41.85	40.56	39.68	39.08	38.16	36.75	35.73	35.85	36.67	36.94
22.00	DISCHG	36.09	35.05	34.33	33.84	32.95	31.50	30.43	30.61	31.44	31.58
24.00	DISCHG	30.69	27.80	21.63	13.99	7.93	4.28	2.42	1.31	.72	.38
26.00	DISCHG	.19	.09	.03	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2206 CFS-HRS= 1599.08 ACRE-FT= 132.15

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	563.508	(RUNOFF)
21.63	20.316	(RUNOFF)
23.63	17.452	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.16	.69
10.00	DISCHG	1.61	2.89	4.64	6.76	9.72	13.48	18.69	26.90	52.77	187.34
12.00	DISCHG	428.61	563.05	457.74	309.84	217.73	156.36	121.38	98.78	84.27	73.88
14.00	DISCHG	65.84	60.67	56.18	52.97	50.28	47.83	45.85	43.42	41.42	39.21
16.00	DISCHG	36.90	35.29	33.78	32.75	32.33	32.18	31.81	30.80	29.90	28.81
18.00	DISCHG	27.64	26.66	25.37	24.42	24.00	23.84	23.79	23.78	23.70	22.97
20.00	DISCHG	21.96	21.37	21.13	20.93	20.15	19.12	18.88	19.65	20.31	19.94
22.00	DISCHG	19.07	18.53	18.31	18.10	17.32	16.29	16.05	16.80	17.44	17.07
24.00	DISCHG	16.11	13.60	8.31	3.82	1.67	.72	.31	.12	.04	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2220 CFS-HRS= 867.52 ACRE-FT= 71.69

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.38	1239.618	(NULL)
21.73	56.713	(NULL)
23.72	48.600	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.13

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.22	1.04
10.00	DISCHG	2.69	5.30	9.09	13.96	20.57	29.09	40.66	57.91	103.57	304.64
12.00	DISCHG	727.52	1141.10	1238.56	1097.08	874.09	657.63	498.89	388.74	314.91	263.98
14.00	DISCHG	227.45	201.26	181.05	165.84	154.27	145.23	137.98	130.95	124.58	118.19
16.00	DISCHG	111.79	106.27	101.28	97.32	94.68	93.07	91.78	89.79	87.58	84.89
18.00	DISCHG	81.88	78.93	75.64	72.67	70.53	69.17	68.41	68.05	67.73	66.59
20.00	DISCHG	64.68	62.85	61.48	60.46	58.94	56.83	55.37	55.52	56.47	56.64
22.00	DISCHG	55.67	54.29	53.18	52.32	50.88	48.78	47.27	47.40	48.36	48.50
24.00	DISCHG	47.34	43.28	34.03	23.10	14.05	7.84	4.25	2.31	1.24	.66
26.00	DISCHG	.35	.17	.08	.03	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2211 CFS-HRS= 2466.73 ACRE-FT= 203.85

SUBROUTINE REACH CROSS SECTION 105
LENGTH= 4200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .86

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.97	539.425	(RUNOFF)
16.90	20.571	(RUNOFF)
19.31	15.170	(RUNOFF)
20.31	13.356	(RUNOFF)
21.[illegible]	13.320	(RUNOFF)

22.30	11.567	(RUNOFF)
23.40	11.507	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.27	.89	1.60	2.50
10.00	DISCHG	3.30	5.00	6.42	8.39	11.93	14.07	22.96	28.93	107.06	387.32
12.00	DISCHG	532.89	235.25	129.89	105.92	68.03	64.23	51.52	47.75	44.80	38.09
14.00	DISCHG	37.45	33.62	32.46	31.49	29.23	29.03	26.45	25.64	24.65	22.30
16.00	DISCHG	22.07	20.76	20.35	20.35	20.38	20.42	19.09	18.68	18.16	16.97
18.00	DISCHG	16.86	15.48	15.06	15.04	15.06	15.08	15.10	15.11	14.62	13.41
20.00	DISCHG	13.28	13.29	13.30	12.80	11.57	11.46	12.84	13.32	12.87	11.63
22.00	DISCHG	11.50	11.50	11.51	11.00	9.75	9.63	11.03	11.51	11.04	9.79
24.00	DISCHG	9.66	2.50	.22	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2689 CFS-HRS= 556.88 ACRE-FT= 46.02

SUBROUTINE ADDHYD CROSS SECTION 105
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.59	1289.490	(NULL)
21.90	68.055	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.81

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.27	.89	1.64	2.77
10.00	DISCHG	4.36	7.63	11.57	17.17	25.52	34.10	51.39	68.89	166.22	503.82
12.00	DISCHG	844.40	919.71	1183.93	1289.11	1158.68	960.60	742.64	575.58	455.12	367.78
14.00	DISCHG	311.45	268.13	238.59	216.22	197.83	185.37	173.26	164.72	156.63	147.76
16.00	DISCHG	141.11	133.49	127.45	122.43	118.43	115.64	112.48	110.58	108.16	104.77
18.00	DISCHG	102.04	97.74	94.34	91.13	88.22	86.02	84.56	83.71	82.75	81.10
20.00	DISCHG	79.90	78.17	76.43	74.52	72.14	70.51	69.99	69.09	68.55	67.95
22.00	DISCHG	67.96	67.18	65.97	64.36	62.13	60.60	60.11	59.18	58.60	58.00
24.00	DISCHG	57.97	49.59	43.28	34.76	24.59	15.62	9.11	5.07	2.79	1.51
26.00	DISCHG	.81	.43	.22	.10	.04	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2293 CFS-HRS= 3022.75 ACRE-FT= 249.80

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.75	1238.227	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.81

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.09	.45	1.08	1.94
10.00	DISCHG	3.18	5.29	8.69	13.03	19.38	27.52	38.94	55.49	99.46	269.43
12.00	DISCHG	584.65	833.29	995.72	1192.75	1232.21	1102.91	907.80	709.99	554.17	439.82
14.00	DISCHG	359.05	303.65	263.24	234.57	212.65	195.74	182.78	171.74	163.00	154.56
16.00	DISCHG	146.49	139.32	132.29	126.45	121.66	117.95	114.91	112.18	110.00	107.29
18.00	DISCHG	104.21	100.91	97.05	93.65	90.51	87.81	85.78	84.45	83.49	82.30
20.00	DISCHG	80.87	79.46	77.77	75.98	73.93	71.84	70.52	69.76	69.00	68.41
22.00	DISCHG	68.02	67.71	66.95	65.56	63.79	61.85	60.61	59.87	59.09	58.47
24.00	DISCHG	58.05	55.19	48.27	41.14	32.26	22.67	14.43	8.51	4.79	2.64
26.00	DISCHG	1.43	.77	.40	.21	.10	.04	.00			

HYDROGRAPH 3 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE ADDHYD CROSS SECTION 205
INPUT HYDROGRAPHS= 5,1 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.76	2539.291	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 8.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.12	.68	1.74	3.23
10.00	DISCHG	5.25	8.46	13.75	21.33	32.79	48.28	70.22	102.84	182.58	514.54
12.00	DISCHG	1196.73	1835.27	2186.56	2453.44	2534.59	2355.43	2011.92	1622.92	1287.53	1029.72
14.00	DISCHG	841.08	707.97	611.26	541.09	488.12	447.08	415.20	388.63	367.14	347.65
16.00	DISCHG	329.18	312.74	297.32	284.02	273.19	264.81	257.89	251.46	245.91	239.84
18.00	DISCHG	233.02	225.76	217.52	209.74	202.86	197.03	192.47	189.26	186.96	184.21
20.00	DISCHG	180.69	177.28	173.83	170.25	165.85	160.93	157.47	155.93	154.97	153.61
22.00	DISCHG	151.99	150.72	149.09	146.72	143.06	138.54	135.29	133.86	132.89	131.51
24.00	DISCHG	129.83	123.83	109.17	91.69	72.84	53.58	36.17	22.63	13.47	7.83
26.00	DISCHG	4.49	2.55	1.43	.79	.41	.19	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1857 CFS-HRS= 6642.08 ACRE-FT= 548.90

HYDROGRAPH 4 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 3200.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.81	2513.494	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 8.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

8.00	DISCHG	.00	.00	.00	.00	.00	.00	.09	.54	1.46	2.84
10.00	DISCHG	4.72	7.61	12.36	19.34	29.78	44.21	64.46	94.27	161.65	427.40
12.00	DISCHG	1017.61	1667.48	2094.16	2383.29	2513.20	2402.42	2102.12	1725.11	1375.67	1097.48
14.00	DISCHG	850.67	742.96	636.68	559.54	502.04	457.87	423.58	395.62	372.79	352.77
16.00	DISCHG	334.03	317.06	301.37	287.52	276.04	267.01	259.71	253.15	247.37	241.44
18.00	DISCHG	234.81	227.66	219.69	211.79	204.67	198.56	193.67	190.10	187.57	184.93
20.00	DISCHG	181.61	178.18	174.74	171.19	167.00	162.22	158.38	156.34	155.22	153.97
22.00	DISCHG	152.41	151.05	149.52	147.35	144.02	139.73	136.15	134.23	133.14	131.87
24.00	DISCHG	130.27	125.41	113.02	96.28	77.79	58.64	40.75	26.19	15.87	9.31
26.00	DISCHG	5.36	3.06	1.73	.96	.51	.25	.08	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1856 CFS-HRS= 6641.59 ACRE-FT= 548.86

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.17	204.224	(RUNOFF)
19.35	9.370	(RUNOFF)
21.57	8.169	(RUNOFF)
23.57	7.071	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.71	2.58	10.48	67.25
12.00	DISCHG	168.09	202.78	133.46	89.47	62.57	46.29	38.38	32.09	29.11	25.92
14.00	DISCHG	23.55	22.13	20.56	19.73	18.71	17.93	17.25	16.26	15.67	14.68
16.00	DISCHG	13.87	13.37	12.82	12.57	12.51	12.51	12.30	11.83	11.54	11.03
18.00	DISCHG	10.61	10.24	9.70	9.43	9.36	9.34	9.35	9.37	9.32	8.88
20.00	DISCHG	8.48	8.34	8.30	8.23	7.78	7.37	7.48	7.96	8.16	7.79
22.00	DISCHG	7.41	7.28	7.23	7.16	6.70	6.28	6.38	6.87	7.06	6.69
24.00	DISCHG	6.28	4.85	2.12	.72	.25	.08	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8837 CFS-HRS= 296.57 ACRE-FT= 24.51

SUBROUTINE DIVERT CROSS SECTION 8
INPUT HYDROGRAPH= 6 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.41	175.820	(NULL)
19.51	9.369	(NULL)
21.79	8.030	(NULL)
23.79	6.932	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.70	2.77	13.63
12.00	DISCHG	60.41	137.92	175.78	142.34	103.32	73.67	54.05	42.65	35.09	30.66
14.00	DISCHG	27.16	24.53	22.73	21.16	20.08	19.06	18.21	17.45	16.57	15.85
16.00	DISCHG	14.96	14.16	13.57	13.03	12.71	12.57	12.51	12.32	11.95	11.62
18.00	DISCHG	11.17	10.75	10.34	9.87	9.56	9.42	9.37	9.36	9.36	9.29
20.00	DISCHG	8.97	8.62	8.43	8.33	8.22	7.88	7.54	7.55	7.85	8.03
22.00	DISCHG	7.83	7.53	7.35	7.26	7.15	6.80	6.45	6.45	6.76	6.93
24.00	DISCHG	6.73	6.28	5.03	2.89	1.35	.57	.23	.08	.03	.00

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 295.49 ACRE-FT= 24.42

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	266.599	(RUNOFF)
21.65	12.200	(RUNOFF)
23.65	10.513	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.04	.59	2.41	11.11	58.85
12.00	DISCHG	168.19	261.73	236.22	171.92	125.09	92.50	71.89	58.85	50.29	44.07
14.00	DISCHG	39.01	35.71	33.15	31.18	29.62	28.22	27.05	25.72	24.51	23.29
16.00	DISCHG	21.99	20.99	20.12	19.49	19.19	19.07	18.87	18.38	17.86	17.25
18.00	DISCHG	16.58	15.97	15.28	14.69	14.40	14.28	14.24	14.24	14.18	13.83
20.00	DISCHG	13.28	12.89	12.72	12.60	12.19	11.62	11.41	11.77	12.18	12.05
22.00	DISCHG	11.58	11.24	11.09	10.96	10.55	9.95	9.73	10.11	10.50	10.37
24.00	DISCHG	9.86	8.56	5.58	2.80	1.31	.61	.28	.12	.05	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8835 CFS-HRS= 450.46 ACRE-FT= 37.23

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.32	420.291	(NULL)
21.71	20.144	(NULL)
23.71	17.376	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.69	3.12	13.88	72.48
12.00	DISCHG	228.60	399.65	412.00	314.27	228.40	166.17	125.93	101.50	85.37	74.73
14.00	DISCHG	66.17	60.24	55.88	52.34	49.70	47.28	45.26	43.17	41.09	39.14
16.00	DISCHG	36.95	35.15	33.69	32.52	31.90	31.64	31.38	30.70	29.81	28.87
18.00	DISCHG	27.75	26.72	25.62	24.57	23.96	23.70	23.61	23.59	23.54	23.12
20.00	DISCHG	22.25	21.51	21.15	20.93	20.41	19.50	18.95	19.31	20.03	20.08
22.00	DISCHG	19.41	18.77	18.44	18.22	17.70	16.75	16.18	16.56	17.25	17.30
24.00	DISCHG	16.59	14.84	10.60	5.69	2.66	1.19	.51	.21	.08	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4631 CFS-HRS= 745.94 ACRE-FT= 61.64

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	8.310	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	8.19	3.57	.22	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0041 CFS-HRS= 2.08 ACRE-FT= .17

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	37.944	(RUNOFF)
16.94	5.383	(RUNOFF)
19.43	4.192	(RUNOFF)

21.60	3.720	(RUNOFF)
23.60	3.267	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83
12.00	DISCHG	13.99	36.00	33.49	26.55	21.24	16.73	14.39	12.42	11.25	10.23
14.00	DISCHG	9.37	8.85	8.30	7.99	7.66	7.38	7.15	6.80	6.56	6.22
16.00	DISCHG	5.90	5.70	5.49	5.38	5.36	5.38	5.32	5.16	5.04	4.86
18.00	DISCHG	4.68	4.53	4.31	4.19	4.16	4.15	4.17	4.18	4.17	4.02
20.00	DISCHG	3.85	3.78	3.76	3.73	3.57	3.38	3.40	3.60	3.72	3.60
22.00	DISCHG	3.43	3.36	3.34	3.31	3.13	2.94	2.96	3.15	3.27	3.14
24.00	DISCHG	2.96	2.41	1.21	.46	.18	.07	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3218 CFS-HRS= 89.30 ACRE-FT= 7.38

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	37.944	(NULL)
16.94	5.383	(NULL)
19.43	4.182	(NULL)
21.60	3.720	(NULL)
23.60	3.267	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83
12.00	DISCHG	13.99	36.00	33.49	26.55	21.24	16.73	14.39	12.42	11.25	10.23
14.00	DISCHG	9.37	8.85	8.30	7.99	7.66	7.38	7.15	6.80	6.56	6.22
16.00	DISCHG	5.90	5.70	5.49	5.38	5.36	5.38	5.32	5.16	5.04	4.86
18.00	DISCHG	4.68	4.53	4.31	4.19	4.16	4.15	4.17	4.18	4.17	4.02
20.00	DISCHG	3.85	3.78	3.76	3.73	3.57	3.38	3.40	3.60	3.72	3.60
22.00	DISCHG	3.43	3.36	3.34	3.31	3.13	2.94	2.96	3.15	3.27	3.14
24.00	DISCHG	2.96	2.41	1.21	.46	.18	.07	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1134 CFS-HRS= 89.30 ACRE-FT= 7.38

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.32	416.660	(NULL)
21.71	20.144	(NULL)
23.71	17.376	(NULL)

```
 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=     .00
  .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
10.00    DISCHG          .00        .00        .00        .00        .00        .05        .69       3.12      13.88      72.48
12.00    DISCHG       228.60     399.65     408.19     317.84     228.63     166.17     125.93     101.50      85.37      74.73
14.00    DISCHG        66.17      60.24      55.88      52.34      49.70      47.28      45.26      43.17      41.09      39.14
16.00    DISCHG        36.95      35.15      33.69      32.52      31.90      31.64      31.38      30.70      29.81      28.87
18.00    DISCHG        27.75      26.72      25.62      24.57      23.96      23.70      23.61      23.59      23.54      23.12
20.00    DISCHG        22.25      21.51      21.15      20.93      20.41      19.50      18.95      19.31      20.03      20.08
22.00    DISCHG        19.41      18.77      18.44      18.22      17.70      16.75      16.18      16.56      17.25      17.30
24.00    DISCHG        16.59      14.84      10.60       5.69       2.66       1.19        .51        .21        .08        .02
26.00    DISCHG          .00

   TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=      746.42        ACRE-FT=      61.68


SUBROUTINE SAVMOV    CROSS SECTION 411
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 2


SUBROUTINE DIVERT    CROSS SECTION 410
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPHS= 4,6


SUBROUTINE REACH     CROSS SECTION 510
           LENGTH=   3200.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=   1.22
  .00    DISCHG          .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=        .00


SUBROUTINE ADDHYD    CROSS SECTION 511
           INPUT HYDROGRAPHS= 2,4     OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.31                        451.771                       (NULL)
              19.31                         27.783                       (NULL)
              21.68                         23.832                       (NULL)
              23.68                         20.596                       (NULL)

 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=     .00
  .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
10.00    DISCHG          .00        .00        .00        .00        .00        .05        .69       3.12      13.88      73.31
12.00    DISCHG       242.59     435.66     441.68     344.39     249.67     182.91     140.32     113.92      96.62      84.96
14.00    DISCHG        75.54      69.09      64.18      60.33      57.36      54.65      52.41      49.97      47.65      45.36
16.00    DISCHG        42.95      40.85      39.18      37.90      37.26      37.02      36.70      35.86      34.85      33.73
```

41

18.00	DISCHG	32.44	31.26	29.94	28.76	28.11	27.85	27.77	27.78	27.72	27.15
20.00	DISCHG	26.10	25.29	24.91	24.67	23.98	22.88	22.35	22.91	23.75	23.67
22.00	DISCHG	22.84	22.13	21.79	21.53	20.83	19.69	19.14	19.71	20.52	20.45
24.00	DISCHG	19.55	17.24	11.82	6.15	2.84	1.25	.53	.22	.08	.02
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 835.72 ACRE-FT= 69.06

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	30.241	(RUNOFF)
21.76	3.883	(RUNOFF)
23.74	3.397	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
12.00	DISCHG	6.00	18.10	28.01	30.22	27.09	22.78	19.20	16.45	14.41	12.86
14.00	DISCHG	11.60	10.63	9.84	9.22	8.74	8.35	8.03	7.70	7.38	7.06
16.00	DISCHG	6.73	6.44	6.18	5.99	5.86	5.80	5.76	5.67	5.55	5.40
18.00	DISCHG	5.22	5.05	4.86	4.69	4.57	4.51	4.48	4.48	4.47	4.41
20.00	DISCHG	4.29	4.17	4.09	4.04	3.96	3.82	3.73	3.75	3.84	3.88
22.00	DISCHG	3.80	3.70	3.63	3.59	3.50	3.36	3.25	3.27	3.37	3.39
24.00	DISCHG	3.30	3.00	2.33	1.51	.86	.46	.26	.14	.08	.04
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3211 CFS-HRS= 95.32 ACRE-FT= 7.88

42

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	30.241	(NULL)
21.76	3.883	(NULL)
23.74	3.397	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
12.00	DISCHG	6.00	18.10	28.01	30.22	27.09	22.78	19.20	16.45	14.41	12.86
14.00	DISCHG	11.60	10.63	9.84	9.22	8.74	8.35	8.03	7.70	7.38	7.06
16.00	DISCHG	6.73	6.44	6.18	5.99	5.86	5.80	5.76	5.67	5.55	5.40
18.00	DISCHG	5.22	5.05	4.86	4.69	4.57	4.51	4.48	4.48	4.47	4.41
20.00	DISCHG	4.29	4.17	4.09	4.04	3.96	3.82	3.73	3.75	3.84	3.88
22.00	DISCHG	3.80	3.70	3.63	3.59	3.50	3.36	3.25	3.27	3.37	3.39
24.00	DISCHG	3.30	3.00	2.33	1.51	.86	.46	.26	.14	.08	.04
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0879 CFS-HRS= 95.32 ACRE-FT= 7.88

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.31	451.771	(NULL)
19.31	27.783	(NULL)
21.68	23.832	(NULL)
23.68	20.596	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.69	3.12	13.88	73.31
12.00	DISCHG	242.59	435.66	441.68	344.39	249.87	182.91	140.32	113.92	96.62	84.96
14.00	DISCHG	75.54	69.09	64.18	60.33	57.36	54.65	52.41	49.97	47.65	45.36
16.00	DISCHG	42.85	40.85	39.18	37.90	37.26	37.02	36.70	35.86	34.85	33.73
18.00	DISCHG	32.44	31.26	29.94	28.76	28.11	27.85	27.77	27.78	27.72	27.15
20.00	DISCHG	26.10	25.29	24.91	24.67	23.98	22.88	22.35	22.91	23.75	23.67
22.00	DISCHG	22.84	22.13	21.78	21.53	20.83	19.69	19.14	19.71	20.52	20.45
24.00	DISCHG	19.55	17.24	11.82	6.15	2.84	1.25	.53	.22	.08	.02
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 835.72 ACRE-FT= 69.06

#3

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610

INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 710
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68
.00 DISCHG .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 711
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.33	476.757	(NULL)
19.30	32.262	(NULL)
21.69	27.699	(NULL)
23.69	23.985	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.69	3.12	13.88	73.71
12.00	DISCHG	248.59	453.76	469.69	374.61	276.96	205.68	159.52	130.37	111.03	97.82
14.00	DISCHG	87.14	79.72	74.03	69.55	66.10	63.01	60.44	57.67	55.03	52.42
16.00	DISCHG	49.58	47.29	45.36	43.89	43.12	42.83	42.46	41.52	40.40	39.12
18.00	DISCHG	37.66	36.31	34.80	33.44	32.68	32.36	32.25	32.25	32.19	31.55
20.00	DISCHG	30.39	29.46	29.00	28.71	27.94	26.70	26.08	26.66	27.60	27.56
22.00	DISCHG	26.64	25.83	25.41	25.12	24.34	23.05	22.38	22.99	23.89	23.84
24.00	DISCHG	22.85	20.24	14.15	7.66	3.69	1.71	.79	.36	.16	.06
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 931.05 ACRE-FT= 76.94

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	18.664	(RUNOFF)
16.91	.967	(RUNOFF)
19.32	.723	(RUNOFF)

H4

20.31	.639	(RUNOFF)
21.49	.639	(RUNOFF)
22.30	.556	(RUNOFF)
23.48	.553	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.11	.31	1.49	9.69
12.00	DISCHG	18.51	13.82	6.82	5.26	3.44	2.97	2.53	2.22	2.11	1.81
14.00	DISCHG	1.73	1.61	1.51	1.48	1.38	1.35	1.27	1.21	1.18	1.07
16.00	DISCHG	1.04	1.00	.96	.96	.96	.96	.92	.89	.87	.82
18.00	DISCHG	.80	.76	.72	.72	.72	.72	.72	.72	.71	.65
20.00	DISCHG	.64	.64	.64	.63	.57	.55	.60	.63	.63	.57
22.00	DISCHG	.56	.55	.55	.54	.48	.47	.51	.55	.54	.49
24.00	DISCHG	.47	.24	.04	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8807 CFS-HRS= 22.74 ACRE-FT= 1.88

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	18.664	(NULL)
16.91	.967	(NULL)
19.32	.723	(NULL)
20.31	.639	(NULL)
21.49	.639	(NULL)
22.30	.556	(NULL)
23.48	.553	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.11	.31	1.49	9.69
12.00	DISCHG	18.51	13.82	6.82	5.26	3.44	2.97	2.53	2.22	2.11	1.81
14.00	DISCHG	1.73	1.61	1.51	1.48	1.38	1.35	1.27	1.21	1.18	1.07
16.00	DISCHG	1.04	1.00	.96	.96	.96	.96	.92	.89	.87	.82
18.00	DISCHG	.80	.76	.72	.72	.72	.72	.72	.72	.71	.65
20.00	DISCHG	.64	.64	.64	.63	.57	.55	.60	.63	.63	.57
22.00	DISCHG	.56	.55	.55	.54	.48	.47	.51	.55	.54	.49
24.00	DISCHG	.47	.24	.04	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5600.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

12.99	8.898	(NULL)
22.14	.607	(NULL)
24.13	.522	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04
12.00	DISCHG	.18	1.01	3.32	6.36	8.40	8.90	8.33	7.23	6.03	4.96
14.00	DISCHG	4.08	3.40	2.87	2.48	2.18	1.95	1.79	1.65	1.55	1.46
16.00	DISCHG	1.38	1.31	1.24	1.18	1.12	1.07	1.04	1.01	.99	.97
18.00	DISCHG	.95	.92	.89	.87	.83	.80	.78	.76	.74	.73
20.00	DISCHG	.73	.72	.70	.69	.67	.66	.65	.63	.61	.60
22.00	DISCHG	.61	.61	.60	.59	.58	.57	.56	.54	.53	.52
24.00	DISCHG	.52	.52	.52	.49	.43	.34	.25	.17	.11	.07
26.00	DISCHG	.04	.03	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0629 CFS-HRS= 22.72 ACRE-FT= 1.88

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	72.085	(RUNOFF)
21.79	4.257	(RUNOFF)
23.76	3.662	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.39	2.29	10.53
12.00	DISCHG	29.86	55.21	70.65	69.13	58.43	45.96	36.41	29.44	24.23	20.47
14.00	DISCHG	17.61	15.54	13.94	12.70	11.71	10.91	10.30	9.78	9.29	8.84
16.00	DISCHG	8.38	7.96	7.59	7.29	7.07	6.93	6.82	6.70	6.54	6.35
18.00	DISCHG	6.14	5.93	5.71	5.49	5.32	5.20	5.13	5.09	5.06	5.00
20.00	DISCHG	4.88	4.74	4.63	4.55	4.46	4.32	4.20	4.17	4.22	4.26
22.00	DISCHG	4.21	4.11	4.02	3.95	3.87	3.73	3.61	3.58	3.63	3.66
24.00	DISCHG	3.59	3.33	2.78	2.03	1.32	.80	.48	.29	.17	.10
26.00	DISCHG	.06	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8823 CFS-HRS= 159.43 ACRE-FT= 13.18

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	76.118	(NULL)
21.78	4.851	(NULL)
23.75	4.182	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .84

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.39	2.30	10.57
12.00	DISCHG	30.04	56.22	73.97	75.49	66.82	54.86	44.73	36.66	30.26	25.43
14.00	DISCHG	21.69	18.93	16.81	15.18	13.89	12.86	12.09	11.43	10.84	10.30
16.00	DISCHG	9.76	9.27	8.83	8.46	8.19	8.00	7.86	7.71	7.53	7.32
18.00	DISCHG	7.09	6.85	6.60	6.36	6.15	6.00	5.91	5.85	5.80	5.73
20.00	DISCHG	5.61	5.46	5.34	5.24	5.13	4.98	4.84	4.79	4.83	4.86
22.00	DISCHG	4.82	4.72	4.62	4.55	4.45	4.30	4.17	4.12	4.15	4.18
24.00	DISCHG	4.11	3.85	3.30	2.52	1.75	1.14	.73	.45	.28	.17
26.00	DISCHG	.11	.06	.03	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3360 CFS-HRS= 182.15 ACRE-FT= 15.05

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 1,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.80	2580.122	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.52

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.09	.54	1.46	2.84
10.00	DISCHG	4.72	7.61	12.36	19.34	29.78	44.23	64.56	94.66	163.95	437.97
12.00	DISCHG	1047.65	1723.70	2168.14	2458.78	2580.03	2457.27	2146.85	1761.77	1405.94	1122.91
14.00	DISCHG	912.36	761.89	653.49	574.72	515.93	470.73	435.67	407.05	383.63	363.07
16.00	DISCHG	343.80	326.33	310.21	295.98	284.23	275.01	267.56	260.86	254.90	248.76
18.00	DISCHG	241.90	234.52	226.29	218.14	210.82	204.56	199.57	195.95	193.37	190.66
20.00	DISCHG	187.22	183.64	180.08	176.43	172.13	167.20	163.22	161.13	160.05	158.83
22.00	DISCHG	157.23	155.77	154.14	151.89	148.47	144.03	140.32	138.36	137.30	136.05
24.00	DISCHG	134.38	129.26	116.32	98.80	79.54	59.78	41.47	26.64	16.16	9.48
26.00	DISCHG	5.47	3.12	1.76	.97	.51	.25	.08	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1107 CFS-HRS= 6823.74 ACRE-FT= 563.91

SUBROUTINE PEACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.12	2502.521	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.52

47

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.05	.31	.96
10.00	DISCHG	2.05	3.61	5.94	9.65	15.30	23.73	35.74	52.63	77.16	126.24
12.00	DISCHG	297.02	719.10	1314.54	1849.22	2237.33	2464.91	2486.49	2303.38	1986.96	1634.75
14.00	DISCHG	1317.64	1063.46	872.92	734.01	633.19	559.15	503.51	460.91	427.26	400.06
16.00	DISCHG	377.15	356.66	338.02	320.95	305.57	292.33	281.52	272.81	265.42	258.93
18.00	DISCHG	252.74	246.21	239.17	231.43	223.37	215.68	208.81	203.06	198.59	195.29
20.00	DISCHG	192.45	189.33	185.90	182.37	178.77	174.79	170.25	165.92	162.83	161.01
22.00	DISCHG	159.66	158.21	156.72	155.17	153.23	150.46	146.67	142.78	139.93	138.21
24.00	DISCHG	136.88	135.40	131.97	123.22	108.98	91.40	72.31	53.48	36.85	23.81
26.00	DISCHG	14.65	8.72	5.08	2.91	1.65	.91	.48	.22	.08	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1106 CFS-HRS= 6823.21 ACRE-FT= 563.87

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.12	2502.521	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 11.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.05	.31	.96
10.00	DISCHG	2.05	3.61	5.94	9.65	15.30	23.73	35.74	52.63	77.16	126.24
12.00	DISCHG	297.02	719.10	1314.54	1849.22	2237.33	2464.91	2486.49	2303.38	1986.96	1634.75
14.00	DISCHG	1317.64	1063.46	872.92	734.01	633.19	559.15	503.51	460.91	427.26	400.06
16.00	DISCHG	377.15	356.66	338.02	320.95	305.57	292.33	281.52	272.81	265.42	258.93
18.00	DISCHG	252.74	246.21	239.17	231.43	223.37	215.68	208.81	203.06	198.59	195.29
20.00	DISCHG	192.45	189.33	185.90	182.37	178.77	174.79	170.25	165.92	162.83	161.01
22.00	DISCHG	159.66	158.21	156.72	155.17	153.23	150.46	146.67	142.78	139.93	138.21
24.00	DISCHG	136.88	135.40	131.97	123.22	108.98	91.40	72.31	53.48	36.85	23.81
26.00	DISCHG	14.65	8.72	5.08	2.91	1.65	.91	.48	.22	.08	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9440 CFS-HRS= 6823.21 ACRE-FT= 563.87

ENDCMP

48

BEGIN -1R

PASS= 3

EXECUTIVE CONTROL CARD 61 OPERATION COMPUT. FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 2.20 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 3
4

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.45	728.440	(RUNOFF)
21.77	40.082	(RUNOFF)
23.75	34.521	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.07	.75	3.08	8.18	30.08	123.31
12.00	DISCHG	335.23	597.36	723.47	679.44	552.68	425.73	335.21	266.93	219.89	186.62
14.00	DISCHG	161.40	142.44	128.38	117.25	108.34	101.54	96.29	91.43	87.01	82.70
16.00	DISCHG	78.42	74.49	71.09	68.33	66.33	65.12	64.20	63.00	61.45	59.62
18.00	DISCHG	57.63	55.60	53.45	51.41	49.79	48.76	48.22	47.93	47.67	47.00
20.00	DISCHG	45.80	44.47	43.46	42.74	41.84	40.45	39.32	39.16	39.79	40.07
22.00	DISCHG	39.52	38.56	37.73	37.12	36.25	34.88	33.74	33.58	34.21	34.49
24.00	DISCHG	33.71	31.11	25.45	17.91	11.12	6.39	3.82	2.24	1.29	.75
26.00	DISCHG	.43	.23	.12	.05	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7339 CFS-HRS= 1539.36 ACRE-FT= 127.21

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	82.521	(RUNOFF)
16.92	5.393	(RUNOFF)
19.34	4.068	(RUNOFF)
20.31	3.608	(RUNOFF)
21.50	3.608	(RUNOFF)
22.30	3.159	(RUNOFF)
23.50	3.149	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

49

10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.44	28.80
12.00	DISCHG	78.24	72.33	37.71	28.89	19.33	16.15	14.02	12.17	11.60	10.02
14.00	DISCHG	9.51	8.91	8.35	8.17	7.65	7.48	7.10	6.71	6.54	5.99
16.00	DISCHG	5.79	5.57	5.37	5.34	5.36	5.38	5.19	4.99	4.90	4.61
18.00	DISCHG	4.51	4.29	4.07	4.03	4.03	4.04	4.05	4.07	4.02	3.72
20.00	DISCHG	3.62	3.60	3.60	3.55	3.25	3.14	3.34	3.57	3.57	3.28
22.00	DISCHG	3.17	3.15	3.15	3.10	2.79	2.67	2.87	3.11	3.11	2.81
24.00	DISCHG	2.68	1.55	.35	.07	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5195 CFS-HRS= 113.98 ACRE-FT= 9.42

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	722.250	(NULL)
21.82	43.111	(NULL)
23.78	37.056	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.02	.29	1.46	4.55	16.41	87.84
12.00	DISCHG	263.22	473.97	649.82	722.16	658.46	538.58	423.06	334.92	270.63	224.28
14.00	DISCHG	191.57	166.87	148.27	134.45	123.19	114.56	107.66	101.98	97.03	92.04
16.00	DISCHG	87.54	83.15	79.16	75.89	73.33	71.53	70.15	68.90	67.51	65.61
18.00	DISCHG	63.66	61.46	59.18	57.04	55.13	53.67	52.75	52.25	51.90	51.20
20.00	DISCHG	50.28	49.08	47.88	46.88	45.77	44.61	43.55	42.97	42.97	43.11
22.00	DISCHG	43.03	42.40	41.53	40.71	39.68	38.56	37.51	36.92	36.93	37.05
24.00	DISCHG	36.87	34.46	29.83	23.57	16.44	10.28	6.07	3.61	2.11	1.22
26.00	DISCHG	.71	.40	.22	.11	.05	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7135 CFS-HRS= 1653.18 ACRE-FT= 136.62

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	225.124	(RUNOFF)
16.91	11.724	(RUNOFF)
19.32	8.759	(RUNOFF)
20.31	7.742	(RUNOFF)
21.48	7.729	(RUNOFF)
22.30	6.746	(RUNOFF)
23.49	6.705	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.06	1.20	3.58	17.56	116.22
12.00	DISCHG	223.15	166.92	82.49	63.63	41.61	35.92	30.67	26.89	25.60	21.95
14.00	DISCHG	21.00	19.50	18.35	17.96	16.70	16.41	15.42	14.63	14.27	12.94
16.00	DISCHG	12.60	12.07	11.66	11.62	11.64	11.67	11.19	10.78	10.57	9.91
18.00	DISCHG	9.73	9.19	8.76	8.69	9.69	8.71	8.73	8.75	8.61	7.93
20.00	DISCHG	7.74	7.72	7.73	7.59	6.89	6.71	7.22	7.69	7.64	6.94
22.00	DISCHG	6.75	6.73	6.73	6.58	5.87	5.68	6.20	6.67	6.60	5.91
24.00	DISCHG	5.71	2.87	.53	.09	.01					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6864 CFS-HRS= 274.66 ACRE-FT= 22.70

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.66	754.228	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.01	.23	2.13	6.72	28.57	171.76
12.00	DISCHG	405.81	541.34	647.13	747.84	726.07	629.82	509.03	404.86	327.81	269.03
14.00	DISCHG	228.70	198.48	175.73	159.18	145.37	135.18	126.44	119.37	113.69	107.37
16.00	DISCHG	102.31	97.32	92.75	89.10	86.22	84.09	82.01	80.28	78.74	76.41
18.00	DISCHG	74.32	71.69	69.02	66.76	64.74	63.09	61.94	61.25	60.68	59.45
20.00	DISCHG	58.46	57.37	56.18	54.96	53.19	51.87	51.28	50.95	50.63	49.99
22.00	DISCHG	49.81	49.41	48.67	47.69	46.04	44.77	44.21	43.88	43.55	42.91
24.00	DISCHG	42.66	38.42	32.50	26.60	19.83	13.26	8.15	4.85	2.86	1.67
26.00	DISCHG	.97	.56	.31	.16	.08	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7095 CFS-HRS= 1927.80 ACRE-FT= 159.31

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	254.046	(RUNOFF)
19.34	10.388	(RUNOFF)
21.56	9.024	(RUNOFF)
23.56	7.793	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.18	.76	1.84	3.23	5.43	8.95	21.16	102.54
12.00	DISCHG	224.33	249.09	156.05	102.77	71.37	52.49	43.40	36.20	32.91	29.20
14.00	DISCHG	26.54	24.92	23.10	22.18	21.00	20.13	19.33	18.18	17.52	16.39
16.00	DISCHG	15.49	14.93	14.29	14.02	13.95	13.94	13.69	13.15	12.83	12.24
18.00	DISCHG	11.78	11.35	10.74	10.46	10.38	10.36	10.37	10.38	10.32	9.82
20.00	DISCHG	9.38	9.23	9.18	9.10	8.58	8.14	8.27	8.81	9.01	8.58
22.00	DISCHG	8.16	8.02	7.97	7.88	7.36	6.90	7.03	7.58	7.78	7.35
24.00	DISCHG	6.89	5.26	2.23	.74	.25	.08	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8361 CFS-HRS= 356.12 ACRE-FT= 29.43

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.76	803.760	(NULL)
23.32	51.746	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.18	.76	1.85	3.32	6.35	12.64	35.68	182.98
12.00	DISCHG	472.31	685.90	723.93	777.70	801.93	743.07	635.59	516.62	418.37	342.22
14.00	DISCHG	285.97	246.15	215.91	193.85	176.58	162.96	152.20	142.78	135.41	128.24
16.00	DISCHG	121.53	115.84	110.35	105.81	102.31	99.64	97.21	94.71	92.70	90.25
18.00	DISCHG	87.61	84.88	81.66	78.88	76.59	74.67	73.18	72.18	71.43	70.10
20.00	DISCHG	68.56	67.36	66.20	64.93	62.98	60.98	60.04	60.03	59.88	59.00
22.00	DISCHG	58.14	57.70	57.14	56.25	54.51	52.60	51.71	51.73	51.57	50.69
24.00	DISCHG	49.76	46.36	38.77	31.54	24.84	18.05	11.96	7.39	4.42	2.61
26.00	DISCHG	1.52	.98	.51	.28	.15	.06	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7266 CFS-HRS= 2283.82 ACRE-FT= 188.73

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 2200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.84	788.775	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.10	.47	1.29	2.55	4.79	9.41	24.05	109.32
12.00	DISCHG	323.53	568.47	695.70	748.88	787.64	770.98	690.90	579.81	471.97	384.13
14.00	DISCHG	317.12	268.32	232.62	206.09	186.09	170.45	158.11	147.90	139.46	132.11
16.00	DISCHG	125.15	118.94	113.31	108.29	104.24	101.11	98.52	96.05	93.80	91.55
18.00	DISCHG	88.02	86.34	83.37	80.39	77.84	75.72	74.00	72.74	71.84	70.79
20.00	DISCHG	69.37	68.02	66.83	65.61	64.00	62.05	60.59	60.08	59.96	59.44
22.00	DISCHG	58.60	57.95	57.44	56.71	55.41	53.62	52.23	51.76	51.65	51.13
24.00	DISCHG	50.25	48.08	42.66	35.42	28.46	21.69	15.26	9.91	6.09	3.64
26.00	DISCHG	2.14	1.25	.72	.41	.22	.11	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7264 CFS-HRS= 2282.90 ACRE-FT= 188.66

SUBROUTINE RUNOFF CROSS SECTION 7
AREA= 2.03 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.39	524.061	(RUNOFF)
21.75	26.077	(RUNOFF)
23.73	22.387	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 2.03

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.10	.65	2.21	5.35	10.77	28.73	99.23
12.00	DISCHG	279.98	470.20	523.71	451.89	346.49	261.75	201.29	160.62	132.55	113.16
14.00	DISCHG	98.46	87.61	79.12	72.72	68.12	64.43	61.38	58.38	55.54	52.75
16.00	DISCHG	49.99	47.50	45.34	43.69	42.54	41.95	41.43	40.60	39.55	38.33
18.00	DISCHG	36.96	35.60	34.17	32.83	31.89	31.34	31.08	30.95	30.81	30.31
20.00	DISCHG	29.42	28.52	27.91	27.50	26.86	25.88	25.17	25.27	25.85	26.05
22.00	DISCHG	25.46	24.73	24.23	23.90	23.28	22.26	21.51	21.64	22.23	22.34
24.00	DISCHG	21.72	19.68	15.31	9.90	5.62	3.03	1.71	.93	.51	.27
26.00	DISCHG	.14	.06	.02	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7820 CFS-HRS= 1024.53 ACRE-FT= 84.67

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	349.623	(RUNOFF)
19.32	16.706	(RUNOFF)
21.63	14.328	(RUNOFF)
23.63	12.346	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.09	.66	2.03	4.49	8.55	22.18	98.65
12.00	DISCHG	250.46	348.27	291.29	200.96	143.44	104.24	81.70	66.98	57.47	50.58
14.00	DISCHG	45.18	41.71	38.69	36.53	34.73	33.08	31.74	30.09	28.74	27.23
16.00	DISCHG	25.65	24.55	23.52	22.82	22.54	22.45	22.20	21.51	20.90	20.15
18.00	DISCHG	19.34	18.67	17.78	17.11	16.83	16.73	16.70	16.70	16.65	16.15
20.00	DISCHG	15.44	15.03	14.87	14.73	14.19	13.47	13.31	13.85	14.32	14.06
22.00	DISCHG	13.46	13.08	12.93	12.79	12.24	11.52	11.35	11.88	12.34	12.08
24.00	DISCHG	11.40	9.63	5.88	2.70	1.18	.51	.22	.09	.03	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7829 CFS-HRS= 555.80 ACRE-FT= 45.93

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.40	764.842	(NULL)
21.73	39.991	(NULL)
23.72	34.375	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.13

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.12	.96	3.22	7.74	15.67	39.22	152.32
12.00	DISCHG	411.68	684.63	764.78	691.49	560.70	427.86	328.55	258.74	211.48	178.55
14.00	DISCHG	154.69	137.49	124.14	114.05	106.32	100.25	95.38	90.63	86.32	81.98
16.00	DISCHG	77.61	73.85	70.43	67.74	65.95	64.88	64.02	62.68	61.18	59.34
18.00	DISCHG	57.27	55.23	52.96	50.91	49.43	48.50	48.00	47.76	47.56	46.78
20.00	DISCHG	45.46	44.19	43.24	42.55	41.49	40.02	39.01	39.13	39.81	39.95
22.00	DISCHG	39.27	38.31	37.54	36.94	35.94	34.46	33.41	33.51	34.20	34.31
24.00	DISCHG	33.49	30.63	24.09	16.35	9.95	5.55	3.01	1.64	.88	.47
26.00	DISCHG	.24	.12	.06	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7824 CFS-HRS= 1580.41 ACRE-FT= 130.61

SUBROUTINE REACH CROSS SECTION 105
LENGTH= 4200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .86

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.98	346.641	(RUNOFF)
16.91	14.495	(RUNOFF)
19.31	10.752	(RUNOFF)

20.31	9.485	(RUNOFF)
21.40	9.476	(RUNOFF)
22.31	8.240	(RUNOFF)
23.40	8.202	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.03	.58	1.58	3.23	4.70	8.99	12.70	54.67	229.72
12.00	DISCHG	344.43	156.66	88.02	72.38	46.68	44.23	35.57	33.04	31.05	26.45
14.00	DISCHG	26.05	23.42	22.63	21.98	20.43	20.31	18.52	17.97	17.29	15.65
16.00	DISCHG	15.51	14.59	14.32	14.32	14.36	14.39	13.46	13.18	12.82	11.99
18.00	DISCHG	11.92	10.95	10.66	10.64	10.66	10.68	10.70	10.72	10.37	9.51
20.00	DISCHG	9.43	9.43	9.45	9.10	8.22	8.15	9.13	9.48	9.16	8.28
22.00	DISCHG	8.19	8.19	8.20	7.84	6.95	6.87	7.87	8.21	7.88	6.99
24.00	DISCHG	6.90	1.78	.16	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8224 CFS-HRS= 360.89 ACRE-FT= 29.82

SUBROUTINE ADDHYD CROSS SECTION 105
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	800.220	(NULL)
21.91	48.063	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.81

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.03	.58	1.60	3.42	5.74	12.25	20.37	71.25	276.72
12.00	DISCHG	503.12	544.55	717.95	800.04	731.33	616.68	483.35	379.37	303.30	247.29
14.00	DISCHG	211.01	182.68	163.30	148.54	136.30	128.00	119.83	114.09	108.62	102.56
16.00	DISCHG	98.06	92.84	88.73	85.31	82.60	80.72	78.56	77.28	75.64	73.31
18.00	DISCHG	71.45	68.47	66.13	63.91	61.91	60.40	59.40	58.84	58.19	57.04
20.00	DISCHG	56.22	55.04	53.83	52.51	50.84	49.71	49.37	48.76	48.39	47.98
22.00	DISCHG	48.01	47.47	46.63	45.50	43.94	42.86	42.55	41.90	41.50	41.08
24.00	DISCHG	41.07	35.10	30.63	24.60	17.40	11.05	6.45	3.59	1.97	1.07
26.00	DISCHG	.57	.30	.15	.07	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7893 CFS-HRS= 1940.78 ACRE-FT= 160.39

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.77	769.203	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.81

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.21	.87	2.10	4.01	7.67	14.32	36.48	134.88
12.00	DISCHG	332.40	493.13	595.17	728.19	767.13	698.11	583.60	462.67	365.63	293.33
14.00	DISCHG	241.61	205.83	179.45	160.63	146.15	134.91	126.24	118.81	112.92	107.20
16.00	DISCHG	101.71	96.83	92.03	88.05	84.79	82.28	80.21	78.36	76.89	75.04
18.00	DISCHG	72.93	70.66	68.00	65.65	63.49	61.63	60.24	59.33	58.69	57.88
20.00	DISCHG	56.89	55.92	54.76	53.52	52.09	50.64	49.73	49.22	48.70	48.30
22.00	DISCHG	48.03	47.83	47.24	46.34	45.10	43.74	42.88	42.38	41.84	41.41
24.00	DISCHG	41.12	39.09	34.17	29.12	22.83	16.04	10.22	6.02	3.39	1.87
26.00	DISCHG	1.01	.54	.29	.15	.07	.02	.00			

HYDROGRAPH 5 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE ADDHYD CROSS SECTION 205
INPUT HYDROGRAPHS= 5,1 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.80	1554.876	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 8.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.31	1.33	3.39	6.56	12.46	23.72	60.53	244.20
12.00	DISCHG	655.93	1061.60	1290.87	1477.07	1554.77	1469.09	1274.50	1042.49	837.61	677.46
14.00	DISCHG	558.73	474.15	412.07	366.72	332.24	305.35	284.36	266.71	252.38	239.31
16.00	DISCHG	226.86	215.77	205.34	196.34	189.03	183.39	178.74	174.41	170.69	166.59
18.00	DISCHG	161.95	157.01	151.37	146.04	141.33	137.35	134.24	132.07	130.53	128.66
20.00	DISCHG	126.26	123.94	121.59	119.13	116.09	112.69	110.32	109.30	108.66	107.74
22.00	DISCHG	106.63	105.78	104.68	103.05	100.50	97.36	95.11	94.14	93.49	92.54
24.00	DISCHG	91.37	87.16	76.82	64.54	51.29	37.73	25.47	15.93	9.48	5.51
26.00	DISCHG	3.16	1.79	1.01	.55	.29	.13	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7547 CFS-HRS= 4227.64 ACRE-FT= 349.37

HYDROGRAPH 6 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 3200.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.84	1537.749	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 8.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

56

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.23	1.06	2.85	5.72	10.91	20.77	50.87	195.99
12.00	DISCHG	547.83	955.01	1230.57	1428.13	1534.32	1491.55	1325.59	1103.43	891.45	719.55
14.00	DISCHG	589.94	496.39	428.39	378.64	341.30	312.42	289.88	271.35	256.15	242.74
16.00	DISCHG	230.13	218.68	208.08	198.70	190.95	184.87	179.96	175.55	171.66	167.67
18.00	DISCHG	163.17	158.30	152.85	147.44	142.57	138.39	135.06	132.64	130.94	129.16
20.00	DISCHG	126.89	124.55	122.20	119.77	116.89	113.59	110.94	109.57	108.83	107.98
22.00	DISCHG	106.92	106.01	104.97	103.48	101.17	98.19	95.70	94.40	93.66	92.79
24.00	DISCHG	91.68	88.27	79.54	67.76	54.77	41.30	28.69	18.44	11.18	6.55
26.00	DISCHG	3.78	2.15	1.21	.67	.36	.17	.06	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7546 CFS-HRS= 4227.29 ACRE-FT= 349.34

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	112.354	(RUNOFF)
16.91	8.223	(RUNOFF)
19.37	6.208	(RUNOFF)
21.57	5.447	(RUNOFF)
23.57	4.735	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.38	23.62
12.00	DISCHG	82.50	112.30	77.30	53.62	38.35	28.81	24.17	20.34	18.54	16.56
14.00	DISCHG	15.09	14.22	13.24	12.74	12.10	11.62	11.20	10.57	10.20	9.57
16.00	DISCHG	9.05	8.74	8.39	8.23	8.20	8.21	8.08	7.78	7.59	7.27
18.00	DISCHG	7.00	6.75	6.40	6.23	6.19	6.18	6.19	6.21	6.18	5.89
20.00	DISCHG	5.63	5.54	5.52	5.48	5.18	4.91	4.98	5.30	5.44	5.20
22.00	DISCHG	4.95	4.86	4.83	4.79	4.48	4.20	4.27	4.60	4.73	4.48
24.00	DISCHG	4.21	3.25	1.42	.48	.17	.05	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5206 CFS-HRS= 174.72 ACRE-FT= 14.44

SUBROUTINE DIVERT CROSS SECTION 8
INPUT HYDROGRAPH= 6 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE PEACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	95.262	(NULL)
17.52	6.205	(NULL)
21.90	5.353	(NULL)

23.79 4.642 (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.14	3.17
12.00	DISCHG	23.01	66.87	94.72	80.41	60.47	44.31	33.19	26.61	22.12	19.46
14.00	DISCHG	17.32	15.70	14.59	13.61	12.95	12.32	11.79	11.32	10.77	10.31
16.00	DISCHG	9.75	9.24	8.86	8.52	8.32	8.24	8.21	8.09	7.86	7.65
18.00	DISCHG	7.36	7.09	6.82	6.52	6.32	6.23	6.20	6.20	6.20	6.16
20.00	DISCHG	5.95	5.72	5.60	5.54	5.47	5.24	5.02	5.03	5.23	5.35
22.00	DISCHG	5.22	5.02	4.91	4.85	4.78	4.54	4.31	4.32	4.52	4.64
24.00	DISCHG	4.51	4.21	3.37	1.94	.91	.39	.15	.06	.02	.00

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 174.22 ACRE-FT= 14.40

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	143.153	(RUNOFF)
19.33	9.431	(RUNOFF)
21.65	8.133	(RUNOFF)
23.65	7.040	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.50	19.72
12.00	DISCHG	76.97	137.51	131.68	99.35	74.33	56.13	44.35	36.77	31.73	28.02
14.00	DISCHG	24.92	22.89	21.31	20.09	19.13	18.25	17.53	16.70	15.94	15.16
16.00	DISCHG	14.34	13.70	13.15	12.76	12.57	12.51	12.39	12.08	11.75	11.36
18.00	DISCHG	10.92	10.53	10.08	9.71	9.52	9.44	9.42	9.43	9.40	9.17
20.00	DISCHG	8.81	8.56	8.45	8.37	8.11	7.73	7.60	7.84	8.12	8.03
22.00	DISCHG	7.73	7.50	7.40	7.32	7.05	6.65	6.51	6.76	7.03	6.95
24.00	DISCHG	6.61	5.74	3.74	1.88	.88	.41	.19	.08	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5208 CFS-HRS= 265.53 ACRE-FT= 21.94

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	227.509	(NULL)
19.32	15.627	(NULL)
21.71	13.429	(NULL)
23.72	11.636	(NULL)

```
 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=     .79
  .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
10.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00       1.63      22.89
12.00    DISCHG        99.98     204.39     226.40     179.76     134.80     100.44      77.54      63.38      53.85      47.48
14.00    DISCHG        42.24      38.59      35.90      33.71      32.07      30.57      29.33      28.02      26.71      25.48
16.00    DISCHG        24.09      22.94      22.01      21.28      20.89      20.75      20.59      20.17      19.61      19.00
18.00    DISCHG        18.28      17.62      16.91      16.22      15.83      15.67      15.62      15.62      15.60      15.33
20.00    DISCHG        14.76      14.28      14.05      13.91      13.58      12.97      12.62      12.86      13.35      13.39
22.00    DISCHG        12.95      12.52      12.31      12.17      11.83      11.20      10.82      11.08      11.55      11.59
24.00    DISCHG        11.11       9.94       7.11       3.82       1.78        .80        .34        .14        .05        .01
26.00    DISCHG          .00

         TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .8625        CFS-HRS=      439.75        ACRE-FT=      36.34


SUBROUTINE DIVERT    CROSS SECTION 109
         INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPHS= 2,4


SUBROUTINE REACH     CROSS SECTION 310
         LENGTH=    900.00     INPUT COEFFICIENT=   .6300     INPUT ROUTINGS=   .00

         AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=     .79
  .00    DISCHG          .00

         TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=        .00


SUBROUTINE DIVERT    CROSS SECTION 310
         INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPHS= 4,6


SUBROUTINE REACH     CROSS SECTION 410
         LENGTH=   2000.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

         AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

         TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=        .00


SUBROUTINE RUNOFF    CROSS SECTION 410
         AREA=    .43     INPUT RUNOFF CURVE=  62.0     TIME OF CONCENTRATION=   .50

         PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
            12.55                          8.330                        (RUNOFF)
            17.00                          2.735                        (RUNOFF)
            19.50                          2.209                        (RUNOFF)
            21.60                          1.997                        (RUNOFF)
            23.60                          1.779                        (RUNOFF)

 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=     .43
```

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	1.00	5.95	8.04	8.31	7.62	6.53	5.96	5.34	4.99	4.62
14.00	DISCHG	4.30	4.11	3.90	3.79	3.67	3.56	3.48	3.33	3.23	3.08
16.00	DISCHG	2.93	2.85	2.76	2.71	2.72	2.73	2.72	2.64	2.59	2.50
18.00	DISCHG	2.42	2.35	2.24	2.18	2.17	2.17	2.19	2.20	2.20	2.12
20.00	DISCHG	2.04	2.00	2.00	1.99	1.90	1.81	1.82	1.93	2.00	1.94
22.00	DISCHG	1.85	1.81	1.80	1.79	1.70	1.60	1.61	1.71	1.78	1.71
24.00	DISCHG	1.62	1.31	.66	.25	.10	.04	.01	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1336 CFS-HRS= 37.06 ACRE-FT= 3.06

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	8.330	(NULL)
17.00	2.735	(NULL)
19.50	2.209	(NULL)
21.60	1.997	(NULL)
23.60	1.779	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	1.00	5.95	8.04	8.31	7.62	6.53	5.96	5.34	4.99	4.62
14.00	DISCHG	4.30	4.11	3.90	3.79	3.67	3.56	3.48	3.33	3.23	3.08
16.00	DISCHG	2.93	2.85	2.76	2.71	2.72	2.73	2.72	2.64	2.59	2.50
18.00	DISCHG	2.42	2.35	2.24	2.18	2.17	2.17	2.19	2.20	2.20	2.12
20.00	DISCHG	2.04	2.00	2.00	1.99	1.90	1.81	1.82	1.93	2.00	1.94
22.00	DISCHG	1.85	1.81	1.80	1.79	1.70	1.60	1.61	1.71	1.78	1.71
24.00	DISCHG	1.62	1.31	.66	.25	.10	.04	.01	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0471 CFS-HRS= 37.06 ACRE-FT= 3.06

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	227.509	(NULL)
19.32	15.627	(NULL)
21.71	13.429	(NULL)
23.72	11.636	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.63	22.89
12.00	DISCHG	99.98	204.39	226.40	179.76	134.80	100.44	77.54	63.38	53.85	47.48
14.00	DISCHG	42.24	38.59	35.90	33.71	32.07	30.57	29.33	28.02	26.71	25.48
16.00	DISCHG	24.09	22.94	22.01	21.28	20.89	20.75	20.59	20.17	19.61	19.00
18.00	DISCHG	18.28	17.62	16.91	16.22	15.83	15.67	15.62	15.62	15.60	15.33
20.00	DISCHG	14.76	14.28	14.05	13.91	13.58	12.97	12.62	12.86	13.35	13.39
22.00	DISCHG	12.95	12.52	12.31	12.17	11.83	11.20	10.82	11.08	11.55	11.59
24.00	DISCHG	11.11	9.94	7.11	3.82	1.78	.80	.34	.14	.05	.01
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 439.75 ACRE-FT= 36.34

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	235.329	(NULL)
19.38	17.825	(NULL)
21.69	15.408	(NULL)
23.69	13.386	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.63	22.89
12.00	DISCHG	100.98	210.33	234.44	188.07	142.42	106.97	83.50	68.72	58.84	52.10
14.00	DISCHG	46.54	42.70	39.80	37.50	35.74	34.13	32.80	31.34	29.94	28.56
16.00	DISCHG	27.02	25.79	24.77	23.99	23.61	23.48	23.31	22.81	22.20	21.50
18.00	DISCHG	20.70	19.97	19.15	18.41	18.00	17.85	17.81	17.82	17.80	17.46
20.00	DISCHG	16.80	16.28	16.05	15.90	15.48	14.78	14.43	14.79	15.35	15.32
22.00	DISCHG	14.80	14.34	14.11	13.96	13.53	12.79	12.43	12.80	13.33	13.30

24.00	DISCHG	12.73	11.26	7.77	4.06	1.88	.83	.35	.14	.05	.01
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 476.81 ACRE-FT= 39.40

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	7.969	(RUNOFF)
19.51	2.352	(RUNOFF)
21.77	2.084	(RUNOFF)
23.75	1.848	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.51	2.42	5.28	7.29	7.96	7.56	6.99	6.40	5.91	5.48
14.00	DISCHG	5.09	4.77	4.51	4.30	4.12	3.98	3.86	3.73	3.60	3.47
16.00	DISCHG	3.33	3.20	3.08	3.00	2.95	2.94	2.92	2.89	2.84	2.77
18.00	DISCHG	2.69	2.61	2.52	2.43	2.38	2.35	2.34	2.35	2.35	2.32
20.00	DISCHG	2.26	2.21	2.17	2.15	2.11	2.04	1.99	2.00	2.06	2.08
22.00	DISCHG	2.04	1.99	1.96	1.94	1.89	1.82	1.76	1.78	1.83	1.85
24.00	DISCHG	1.80	1.63	1.27	.82	.47	.25	.14	.08	.04	.02
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1333 CFS-HRS= 39.59 ACRE-FT= 3.27

62

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

12.83	7.969	(NULL)
19.51	2.352	(NULL)
21.77	2.084	(NULL)
23.75	1.848	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.51	2.42	5.28	7.29	7.96	7.56	6.99	6.40	5.91	5.48
14.00	DISCHG	5.09	4.77	4.51	4.30	4.12	3.98	3.86	3.73	3.60	3.47
16.00	DISCHG	3.33	3.20	3.08	3.00	2.95	2.94	2.92	2.89	2.84	2.77
18.00	DISCHG	2.69	2.61	2.52	2.43	2.38	2.35	2.34	2.35	2.35	2.32
20.00	DISCHG	2.26	2.21	2.17	2.15	2.11	2.04	1.99	2.00	2.06	2.08
22.00	DISCHG	2.04	1.99	1.96	1.94	1.89	1.82	1.76	1.78	1.83	1.85
24.00	DISCHG	1.80	1.63	1.27	.82	.47	.25	.14	.08	.04	.02
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0365 CFS-HRS= 39.59 ACRE-FT= 3.27

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	235.329	(NULL)
19.38	17.825	(NULL)
21.69	15.408	(NULL)
23.69	13.386	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.63	22.89
12.00	DISCHG	100.98	210.33	234.44	188.07	142.42	106.97	83.50	68.72	58.84	52.10
14.00	DISCHG	46.54	42.70	39.80	37.50	35.74	34.13	32.80	31.34	29.94	28.56
16.00	DISCHG	27.02	25.79	24.77	23.99	23.61	23.48	23.31	22.81	22.20	21.50
18.00	DISCHG	20.70	19.97	19.15	18.41	18.00	17.85	17.81	17.82	17.80	17.46
20.00	DISCHG	16.80	16.28	16.05	15.90	15.48	14.78	14.43	14.79	15.35	15.32
22.00	DISCHG	14.80	14.34	14.11	13.96	13.53	12.79	12.43	12.80	13.33	13.30
24.00	DISCHG	12.73	11.26	7.77	4.06	1.88	.83	.35	.14	.05	.01
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 476.81 ACRE-FT= 39.40

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 . OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610

INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 710
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68
.00 DISCHG .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 711
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.38	240.257	(NULL)
19.39	20.172	(NULL)
21.70	17.476	(NULL)
23.70	15.230	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.63	22.89
12.00	DISCHG	101.50	212.76	239.72	195.36	150.38	114.54	90.49	75.12	64.75	57.58
14.00	DISCHG	51.63	47.48	44.31	41.79	39.87	38.11	36.66	35.07	33.54	32.02
16.00	DISCHG	30.35	28.99	27.85	26.99	26.56	26.42	26.24	25.70	25.03	24.27
18.00	DISCHG	23.39	22.58	21.67	20.84	20.38	20.20	20.15	20.17	20.15	19.78
20.00	DISCHG	19.06	18.49	18.22	18.05	17.58	16.82	16.42	16.80	17.41	17.40
22.00	DISCHG	16.84	16.33	16.07	15.90	15.42	14.61	14.19	14.57	15.16	15.15
24.00	DISCHG	14.53	12.89	9.04	4.89	2.35	1.08	.50	.22	.10	.03
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 516.39 ACRE-FT= 42.67

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	10.220	(RUNOFF)
16.92	.635	(RUNOFF)
19.33	.479	(RUNOFF)

20.32	.425	(RUNOFF)
21.49	.426	(RUNOFF)
22.31	.372	(RUNOFF)
23.48	.371	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.20	3.91
12.00	DISCHG	9.95	8.05	4.12	3.26	2.15	1.87	1.61	1.41	1.35	1.16
14.00	DISCHG	1.11	1.04	.98	.96	.89	.88	.83	.79	.77	.70
16.00	DISCHG	.68	.65	.63	.63	.63	.63	.61	.59	.57	.54
18.00	DISCHG	.53	.50	.48	.47	.47	.48	.48	.48	.47	.43
20.00	DISCHG	.42	.42	.42	.42	.38	.37	.40	.42	.42	.38
22.00	DISCHG	.37	.37	.37	.36	.32	.31	.34	.37	.36	.33
24.00	DISCHG	.32	.16	.03	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5183 CFS-HRS= 13.38 ACRE-FT= 1.11

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	10.220	(NULL)
16.92	.635	(NULL)
19.33	.479	(NULL)
20.32	.425	(NULL)
21.49	.426	(NULL)
22.31	.372	(NULL)
23.48	.371	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.20	3.91
12.00	DISCHG	9.95	8.05	4.12	3.26	2.15	1.87	1.61	1.41	1.35	1.16
14.00	DISCHG	1.11	1.04	.98	.96	.89	.88	.83	.79	.77	.70
16.00	DISCHG	.68	.65	.63	.63	.63	.63	.61	.59	.57	.54
18.00	DISCHG	.53	.50	.48	.47	.47	.48	.48	.48	.47	.43
20.00	DISCHG	.42	.42	.42	.42	.38	.37	.40	.42	.42	.38
22.00	DISCHG	.37	.37	.37	.36	.32	.31	.34	.37	.36	.33
24.00	DISCHG	.32	.16	.03	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

13.04	4.787	(NULL)
22.06	.405	(NULL)
24.25	.350	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.01	.31	1.40	3.07	4.33	4.77	4.60	4.09	3.49	2.92
14.00	DISCHG	2.45	2.07	1.77	1.55	1.37	1.24	1.14	1.06	1.00	.94
16.00	DISCHG	.89	.85	.81	.77	.73	.70	.68	.66	.65	.64
18.00	DISCHG	.62	.61	.59	.57	.55	.53	.51	.50	.49	.49
20.00	DISCHG	.48	.48	.47	.46	.45	.44	.43	.42	.41	.40
22.00	DISCHG	.40	.40	.40	.39	.39	.38	.37	.36	.35	.35
24.00	DISCHG	.35	.35	.35	.33	.29	.23	.16	.11	.07	.05
26.00	DISCHG	.03	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0371 CFS-HRS= 13.40 ACRE-FT= 1.11

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	38.235	(RUNOFF)
21.80	2.837	(RUNOFF)
23.77	2.451	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.37	3.51
12.00	DISCHG	12.85	26.93	37.03	37.89	33.10	26.68	21.56	17.72	14.80	12.66
14.00	DISCHG	11.01	9.79	8.85	8.11	7.52	7.03	6.65	6.33	6.03	5.74
16.00	DISCHG	5.45	5.19	4.95	4.76	4.62	4.54	4.47	4.39	4.29	4.18
18.00	DISCHG	4.04	3.91	3.76	3.62	3.51	3.43	3.39	3.37	3.35	3.31
20.00	DISCHG	3.24	3.15	3.08	3.02	2.96	2.87	2.79	2.77	2.81	2.84
22.00	DISCHG	2.81	2.74	2.68	2.64	2.58	2.49	2.41	2.39	2.43	2.45
24.00	DISCHG	2.40	2.23	1.87	1.36	.88	.54	.32	.19	.12	.07
26.00	DISCHG	.04	.02	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5201 CFS-HRS= 93.98 ACRE-FT= 7.77

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	40.989	(NULL)
21.79	3.239	(NULL)
23.76	2.799	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .84

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.37	3.51
12.00	DISCHG	12.86	27.24	38.43	40.97	37.43	31.45	26.16	21.81	18.29	15.59
14.00	DISCHG	13.46	11.86	10.62	9.66	8.89	8.27	7.79	7.39	7.03	6.68
16.00	DISCHG	6.35	6.04	5.76	5.53	5.36	5.24	5.15	5.05	4.94	4.81
18.00	DISCHG	4.66	4.51	4.35	4.19	4.06	3.96	3.90	3.87	3.84	3.80
20.00	DISCHG	3.72	3.62	3.54	3.48	3.41	3.31	3.22	3.19	3.22	3.24
22.00	DISCHG	3.21	3.15	3.09	3.03	2.97	2.87	2.79	2.76	2.78	2.80
24.00	DISCHG	2.75	2.58	2.21	1.69	1.17	.76	.49	.30	.19	.12
26.00	DISCHG	.07	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1981 CFS-HRS= 107.38 ACRE-FT= 8.87

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 1,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.84	1574.207	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.23	1.06	2.85	5.72	10.91	20.77	51.24	199.50
12.00	DISCHG	560.69	982.25	1269.00	1469.10	1571.75	1522.99	1351.75	1125.25	909.74	735.14
14.00	DISCHG	603.40	508.25	439.01	388.30	350.19	320.69	297.67	278.74	263.17	249.43
16.00	DISCHG	236.48	224.72	213.84	204.23	196.30	190.10	185.11	180.60	176.61	172.48
18.00	DISCHG	167.83	162.82	157.20	151.63	146.63	142.36	138.96	136.51	134.78	132.95
20.00	DISCHG	130.61	128.17	125.75	123.25	120.30	116.89	114.17	112.76	112.04	111.22
22.00	DISCHG	110.13	109.15	108.05	106.51	104.15	101.06	98.49	97.15	96.44	95.59
24.00	DISCHG	94.43	90.85	81.75	69.45	55.94	42.06	29.18	18.74	11.37	6.67
26.00	DISCHG	3.85	2.19	1.24	.68	.36	.17	.06	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7055 CFS-HRS= 4334.67 ACRE-FT= 358.22

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.16	1526.371	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.52

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.12	.64	1.88	4.10	8.00	15.29	35.23
12.00	DISCHG	124.38	368.23	730.32	1066.34	1320.98	1484.41	1523.87	1434.17	1255.22	1046.68
14.00	DISCHG	854.19	697.23	578.02	490.15	425.76	378.09	342.01	314.19	292.06	274.07
16.00	DISCHG	258.82	245.10	232.58	221.08	210.70	201.77	194.48	188.63	183.67	179.31
18.00	DISCHG	175.15	170.75	165.97	160.70	155.20	149.95	145.26	141.34	138.30	136.07
20.00	DISCHG	134.16	132.04	129.71	127.31	124.85	122.13	119.00	116.02	113.91	112.68
22.00	DISCHG	111.78	110.80	109.80	108.75	107.43	105.52	102.89	100.20	98.24	97.06
24.00	DISCHG	96.15	95.13	92.75	86.60	76.60	64.27	50.86	37.63	25.92	16.75
26.00	DISCHG	10.31	6.14	3.57	2.05	1.16	.64	.33	.15	.05	.01
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7055 CFS-HRS= 4334.29 ACRE-FT= 358.19

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.16	1526.371	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 11.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.12	.64	1.88	4.10	8.00	15.29	35.23
12.00	DISCHG	124.38	368.23	730.32	1066.34	1320.98	1484.41	1523.87	1434.17	1255.22	1046.68
14.00	DISCHG	854.19	697.23	578.02	490.15	425.76	378.09	342.01	314.19	292.06	274.07
16.00	DISCHG	258.82	245.10	232.58	221.08	210.70	201.77	194.48	188.63	183.67	179.31
18.00	DISCHG	175.15	170.75	165.97	160.70	155.20	149.95	145.26	141.34	138.30	136.07
20.00	DISCHG	134.16	132.04	129.71	127.31	124.85	122.13	119.00	116.02	113.91	112.68
22.00	DISCHG	111.78	110.80	109.80	108.75	107.43	105.52	102.89	100.20	98.24	97.06
24.00	DISCHG	96.15	95.13	92.75	86.60	76.60	64.27	50.86	37.63	25.92	16.75
26.00	DISCHG	10.31	6.14	3.57	2.05	1.16	.64	.33	.15	.05	.01
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5996 CFS-HRS= 4334.29 ACRE-FT= 358.19

ENDCMP

SUMMARY TABLE 1

ALT	STORM	ID	DA SQ-MI.	RATN TBLE	AMC	DELTA-T HRS.	TZERO HRS.	PRECIP IN.	PRECIP DURATION	PEAK-Q CFS	PEAK-TIME	PEAK-ELEV	RUNOFF IN.	CSM
3	1	1	3.25	2	2	.20	.00	3.70	24.00	1990.44	12.41	.00	1.87	612.44
3	1	2	.34	2	2	.20	.00	3.70	24.00	270.92	12.03	.00	1.51	796.82
3	1	102	3.59	2	2	.20	.00	3.70	24.00	1975.18	12.56	.00	1.84	550.19
3	1	3	.62	2	2	.20	.00	3.70	24.00	621.49	12.00	.00	1.80	1002.41
3	1	103	4.21	2	2	.20	.00	3.70	24.00	2062.08	12.61	.00	1.83	489.81
3	1	4	.66	2	2	.20	.00	3.70	24.00	634.87	12.11	.00	2.03	961.93
3	1	104	4.87	2	2	.20	.00	3.70	24.00	2167.52	12.68	.00	1.86	445.08
3	1	7	2.03	2	2	.20	.00	3.70	24.00	1379.60	12.34	.00	1.94	679.61
3	1	6	1.10	2	2	.20	.00	3.70	24.00	913.08	12.20	.00	1.95	830.08
3	1	106	3.13	2	2	.20	.00	3.70	24.00	2018.70	12.36	.00	1.95	644.95
3	1	5	.68	2	2	.20	.00	3.70	24.00	848.94	11.96	.00	2.00	1248.44
3	1	105	3.81	2	2	.20	.00	3.70	24.00	2089.39	12.57	.00	1.95	548.40
3	1	205	8.68	2	2	.20	.00	3.70	24.00	4162.49	12.73	.00	1.90	479.55
3	1	8	.52	2	2	.20	.00	3.70	24.00	363.38	12.14	.00	1.51	698.81
3	1	9	.79	2	2	.20	.00	3.70	24.00	481.99	12.24	.00	1.51	610.12
3	1	109	.79	2	2	.20	.00	3.70	24.00	772.99	12.29	.00	2.51	978.47
3	1	310	.79	2	2	.20	.00	3.70	24.00	330.31	12.37	.00	.35	418.11
3	1	410	.43	2	2	.20	.00	3.70	24.00	112.86	12.23	.00	.71	262.47
3	1	411	.00	2	2	.20	.00	3.70	24.00	702.41	12.36	.00	.00	.00
3	1	510	1.22	2	2	.20	.00	3.70	24.00	.56	12.63	.00	.00	.46
3	1	511	.00	2	2	.20	.00	3.70	24.00	796.91	12.34	.00	.00	.00
3	1	610	.46	2	2	.20	.00	3.70	24.00	88.14	12.47	.00	.71	191.61
3	1	611	.00	2	2	.20	.00	3.70	24.00	797.16	12.34	.00	.00	.00
3	1	710	1.68	2	2	.20	.00	3.70	24.00	.00	.00	.00	.00	.00
3	1	711	.00	2	2	.20	.00	3.70	24.00	881.16	12.36	.00	.00	.00
3	1	209	.04	2	2	.20	.00	3.70	24.00	33.26	12.01	.00	1.51	831.61
3	1	208	.28	2	2	.20	.00	3.70	24.00	130.89	12.46	.00	1.51	467.45
3	1	208	.84	2	2	.20	.00	3.70	24.00	139.83	12.49	.00	.58	166.46
3	1	211	9.52	2	2	.20	.00	3.70	24.00	4243.00	12.77	.00	1.78	445.69
3	1	712	11.20	2	2	.20	.00	3.70	24.00	4119.48	13.09	.00	1.52	367.81
3	2	1	3.25	2	2	.20	.00	2.80	24.00	1203.54	12.43	.00	1.16	370.32
3	2	2	.34	2	2	.20	.00	2.80	24.00	151.39	12.05	.00	.88	445.25
3	2	102	3.59	2	2	.20	.00	2.80	24.00	1193.66	12.58	.00	1.13	332.50
3	2	3	.62	2	2	.20	.00	2.80	24.00	374.13	12.02	.00	1.10	603.43
3	2	103	4.21	2	2	.20	.00	2.80	24.00	1246.46	12.64	.00	1.13	296.07
3	2	4	.66	2	2	.20	.00	2.80	24.00	399.43	12.12	.00	1.29	605.20
3	2	104	4.87	2	2	.20	.00	2.80	24.00	1322.75	12.72	.00	1.15	271.61
3	2	7	2.03	2	2	.20	.00	2.80	24.00	848.06	12.36	.00	1.22	417.76
3	2	6	1.10	2	2	.20	.00	2.80	24.00	563.51	12.21	.00	1.22	512.28
3	2	106	3.13	2	2	.20	.00	2.80	24.00	1239.62	12.38	.00	1.22	396.04
3	2	5	.68	2	2	.20	.00	2.80	24.00	539.42	11.97	.00	1.27	793.27
3	2	105	3.81	2	2	.20	.00	2.80	24.00	1289.49	12.59	.00	1.23	338.45
3	2	205	8.68	2	2	.20	.00	2.80	24.00	2539.29	12.76	.00	1.19	292.55
3	2	8	.52	2	2	.20	.00	2.80	24.00	204.22	12.17	.00	.88	392.74
3	2	9	.79	2	2	.20	.00	2.80	24.00	266.60	12.26	.00	.88	337.47
3	2	109	.79	2	2	.20	.00	2.80	24.00	420.29	12.32	.00	1.46	532.01
3	2	310	.79	2	2	.20	.00	2.80	24.00	8.31	12.43	.00	.00	10.52
3	2	410	.43	2	2	.20	.00	2.80	24.00	37.94	12.28	.00	.32	88.24
3	2	411	.00	2	2	.20	.00	2.80	24.00	416.66	12.32	.00	.00	.00
3	2	510	1.22	2	2	.20	.00	2.80	24.00	.00	.00	.00	.00	.00
3	2	511	.00	2	2	.20	.00	2.80	24.00	451.77	12.31	.00	.00	.00
3	2	610	.46	2	2	.20	.00	2.80	24.00	30.24	12.58	.00	.32	65.74
3	2	611	.00	2	2	.20	.00	2.80	24.00	451.77	12.31	.00	.00	.00

100-YR

25-YR

3	2	710	1.68	2	2	.20	.00	2.80	24.00	.00	.00	.00	.00	.00
3	2	711	.00	2	2	.20	.00	2.80	24.00	476.76	12.33	.00	.00	.00
3	2	209	.04	2	2	.20	.00	2.80	24.00	18.66	12.03	.00	.88	466.59
3	2	208	.28	2	2	.20	.00	2.80	24.00	72.08	12.48	.00	.88	257.45
3	2	208	.84	2	2	.20	.00	2.80	24.00	76.12	12.53	.00	.34	90.62
3	2	211	9.52	2	2	.20	.00	2.80	24.00	2580.12	12.80	.00	1.11	271.02
3	2	712	11.20	2	2	.20	.00	2.80	24.00	2502.52	13.12	.00	.94	223.44
3	3	1	3.25	2	2	.20	.00	2.20	24.00	728.44	12.45	.00	.73	224.14
3	3	2	.34	2	2	.20	.00	2.20	24.00	82.52	12.08	.00	.52	242.71
3	3	102	3.59	2	2	.20	.00	2.20	24.00	722.25	12.61	.00	.71	201.18
3	3	3	.62	2	2	.20	.00	2.20	24.00	225.12	12.03	.00	.69	363.10
3	3	103	4.21	2	2	.20	.00	2.20	24.00	754.23	12.66	.00	.71	179.15
3	3	4	.66	2	2	.20	.00	2.20	24.00	254.05	12.14	.00	.84	384.92
3	3	104	4.87	2	2	.20	.00	2.20	24.00	803.76	12.76	.00	.73	165.04
3	3	7	2.03	2	2	.20	.00	2.20	24.00	524.06	12.39	.00	.78	258.16
3	3	6	1.10	2	2	.20	.00	2.20	24.00	349.62	12.23	.00	.78	317.84
3	3	106	3.13	2	2	.20	.00	2.20	24.00	764.84	12.40	.00	.78	244.36
3	3	5	.68	2	2	.20	.00	2.20	24.00	346.64	11.98	.00	.82	509.77
3	3	105	3.81	2	2	.20	.00	2.20	24.00	800.22	12.61	.00	.79	210.03
3	3	205	8.68	2	2	.20	.00	2.20	24.00	1554.88	12.80	.00	.75	179.13
3	3	8	.52	2	2	.20	.00	2.20	24.00	112.35	12.19	.00	.52	216.06
3	3	9	.79	2	2	.20	.00	2.20	24.00	143.15	12.28	.00	.52	181.21
3	3	109	.79	2	2	.20	.00	2.20	24.00	227.51	12.36	.00	.86	287.99
3	3	310	.79	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
3	3	410	.43	2	2	.20	.00	2.20	24.00	8.33	12.55	.00	.13	19.37
3	3	411	.00	2	2	.20	.00	2.20	24.00	227.51	12.36	.00	.00	.00
3	3	510	1.22	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
3	3	511	.00	2	2	.20	.00	2.20	24.00	235.33	12.37	.00	.00	.00
3	3	610	.46	2	2	.20	.00	2.20	24.00	7.97	12.83	.00	.13	17.32
3	3	611	.00	2	2	.20	.00	2.20	24.00	235.33	12.37	.00	.00	.00
3	3	710	1.68	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
3	3	711	.00	2	2	.20	.00	2.20	24.00	240.26	12.38	.00	.00	.00
3	3	209	.04	2	2	.20	.00	2.20	24.00	10.22	12.05	.00	.52	255.50
3	3	208	.28	2	2	.20	.00	2.20	24.00	38.23	12.53	.00	.52	136.55
3	3	208	.84	2	2	.20	.00	2.20	24.00	40.99	12.58	.00	.20	48.80
3	3	211	9.52	2	2	.20	.00	2.20	24.00	1574.21	12.84	.00	.71	165.36
3	3	712	11.20	2	2	.20	.00	2.20	24.00	1526.37	13.16	.00	.60	136.28

10-1r

With New Diversion

SUMMARY TABLE 3

		DISCHARGE,CFS									
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Subarea No.1 / DESIGN	XSEC/STRUC NO. 1 ALTERNATE 3	1990.44	1203.54	728.44	.00	.00	.00	.00	.00	.00	.00
Subarea No.2 / DESIGN	XSEC/STRUC NO. 2 ALTERNATE 3	270.92	151.39	82.52	.00	.00	.00	.00	.00	.00	.00
Subarea No.3 / DESIGN	XSEC/STRUC NO. 3 ALTERNATE 3	621.49	374.13	225.12	.00	.00	.00	.00	.00	.00	.00
Subarea No.4 / DESIGN	XSEC/STRUC NO. 4 ALTERNATE 3	634.87	399.43	254.05	.00	.00	.00	.00	.00	.00	.00
Subarea No.5	XSEC/STRUC NO. 5 ALTERNATE 3	848.94	539.42	346.64	.00	.00	.00	.00	.00	.00	.00
Subarea No.6	XSEC/STRUC NO. 6 ALTERNATE 3	913.08	563.51	349.62	.00	.00	.00	.00	.00	.00	.00
Subarea No.7	XSEC/STRUC NO. 7 ALTERNATE 3	1379.60	848.06	524.06	.00	.00	.00	.00	.00	.00	.00
Subarea No.8A	XSEC/STRUC NO. 8 ALTERNATE 3	363.38	204.22	112.35	.00	.00	.00	.00	.00	.00	.00
Subarea No.9A	XSEC/STRUC NO. 9 ALTERNATE 3	481.99	266.60	143.15	.00	.00	.00	.00	.00	.00	.00
Subareas 1+2	XSEC/STRUC NO.102 ALTERNATE 3	1975.18	1193.66	722.25	.00	.00	.00	.00	.00	.00	.00
Subareas 1+2+3	XSEC/STRUC NO.103 ALTERNATE 3	2062.08	1246.46	754.23	.00	.00	.00	.00	.00	.00	.00
Subareas 1+2+3+4	XSEC/STRUC NO.104 ALTERNATE 3	2167.52	1322.75	803.76	.00	.00	.00	.00	.00	.00	.00
Subareas 1+7	← Not, USE REACH Rout @ X-Sect 205 For INLet DESIGN for New DIVERSION From Subareas 5+6+7 (Show Below in BLUE) XSEC/STRUC NO.105 ALTERNATE 3	2089.39	1289.49	800.22	.00	.00	.00	.00	.00	.00	.00
	REACH 205	2007.51	1238.23	768.26							
Subareas 6+7	XSEC/STRUC NO.106 ALTERNATE 3	2018.70	1239.62	764.84	.00	.00	.00	.00	.00	.00	.00
Subareas 8A+9A	XSEC/STRUC NO.109 ALTERNATE 3	772.99	420.29	227.51	.00	.00	.00	.00	.00	.00	.00
Subareas 2,3,4,5,6,7	XSEC/STRUC NO.205 ALTERNATE 3	4162.49	2539.29	1554.88	.00	.00	.00	.00	.00	.00	.00
	← (USE FOR INLET DESIGN @ CANAL and/or EXISTING LOWER DIVERSION)										
Subareas 8+9B	XSEC/STRUC NO.209 ALTERNATE 3	139.83	76.12	40.99	.00	.00	.00	.00	.00	.00	.00

Subarea 9B	XSEC/STRUC NO.209 ALTERNATE 3	33.26	18.66	10.22	.00	.00	.00	.00	.00	.00	.00
Subarea 3, 3+4+5+6+7+8B+9B	XSEC/STRUC NO.211 ALTERNATE 3	4243.00	2580.12	1574.21	.00	.00	.00	.00	.00	.00	.00
Low @ bldg No. 3	XSEC/STRUC NO.310 ALTERNATE 3	330.31	8.31	.00	.00	.00	.00	.00	.00	.00	.00
Subarea 10A	XSEC/STRUC NO.410 ALTERNATE 3	112.86	37.94	8.33	.00	.00	.00	.00	.00	.00	.00
In Thru bldgs 2&3	XSEC/STRUC NO.411 ALTERNATE 3	702.41	416.66	227.51	.00	.00	.00	.00	.00	.00	.00
In @ Thru No 5	XSEC/STRUC NO.510 ALTERNATE 3	.56	.00	.00	.00	.00	.00	.00	.00	.00	.00
In thru bldgs 2,3&4	XSEC/STRUC NO.511 ALTERNATE 3	796.91	451.77	235.33	.00	.00	.00	.00	.00	.00	.00
Subarea 10B	XSEC/STRUC NO.610 ALTERNATE 3	88.14	30.24	7.97	.00	.00	.00	.00	.00	.00	.00
In thru bldgs 2+3+4+5	XSEC/STRUC NO.611 ALTERNATE 3	797.16	451.77	235.33	.00	.00	.00	.00	.00	.00	.00
In @ Rwd No RR	XSEC/STRUC NO.710										
In thru bldgs 2+3+4+5+6	XSEC/STRUC NO.711 ALTERNATE 3	881.16	476.76	240.26	.00	.00	.00	.00	.00	.00	.00
D Flow all subareas - 2 R.P.	XSEC/STRUC NO.712 ALTERNATE 3	4119.48	2502.52	1526.37	.00	.00	.00	.00	.00	.00	.00

ENDJOB CARD ENCOUNTERED. END OF JOB.

Worksheet 4: Graphical Peak Discharge method

Project RWCD, REACH #2, REV. Inlet Hyd By Hem Date 11/14/86

Location Subarea #1 Checked ____ Date ____

Circle one: (Present) Developed

NOTE: D.A Revised from 3.25 mi² to 1.66 mi². Based on delineation on Aerial photo 43 Compared to 7½-min USGS quad sheet.

1. Data:

Drainage area ..... A_m = 1.66 mi^2 (acres/640)

Runoff curve number .... CN = 81 (From worksheet 2)

Time of concentration .. T_c = 0.90 hr (From worksheet 3)

Rainfall distribution type = II (I, IA, II, III)

Pond and swamp areas spread throughout watershed ..... = 0 percent of A_m (— acres or mi^2 covered)

		Storm #1	Storm #2	Storm #3
2. Frequency	yr	100	25	10
3. Rainfall, P (24-hour)	in	3.70	2.80	2.20
4. Initial abstraction, I_a ..... (Use CN with table 4-1.)	in	0.469	0.469	0.469
5. Compute I_a/P		0.127	0.168	0.213
6. Unit peak discharge, q_u ..... (Use T_c and I_a/P with exhibit 4-____)	csm/in	370	355	345
7. Runoff, Q ..... (From worksheet 2).	in	1.87	1.16	0.73
8. Pond and swamp adjustment factor, F_p .... (Use percent pond and swamp area with table 4-2. Factor is 1.0 for zero percent pond and swamp area.)		—	—	—
9. Peak discharge, q_p ..... (Where $q_p = q_u A_m Q F_p$)	cfs	1149	684	418

Worksheet 4: Graphical Peak Discharge method

Project RWCD REACH #2, REI Inlet Hyd By Hm Date 11/10/89

Location Subarea #2 Checked ____ Date ____

Circle one: Present Developed

1. Data:

NOTE: D.A REVISED FROM 2.34 mi² to 1.93 mi² BASED ON DELINEATION ON AERIAL PHOTO AS COMPARED TO 7½ min USGS QUAD SHEET.

Drainage area ..... A_m = 1.93 mi² (acres/640)

Runoff curve number .... CN_{24} = 80 (From worksheet 2) wt. CN = (0.34)(76) + (1.59)(81) = 80

Time of concentration .. T_c = 0.90 [1] hr (From worksheet 3)

Rainfall distribution type = II (I, IA, II, III)

Pond and swamp areas spread throughout watershed ..... = 0 percent of A_m (— acres or mi² covered)

		Storm #1	Storm #2	Storm #3
2. Frequency	yr	100	25	10
3. Rainfall, P (24-hour)	in	3.70	2.80	2.20
4. Initial abstraction, I_a ..... (Use CN with table 4-1.)	in	0.500	0.500	0.500
5. Compute I_a/P		0.135	0.178	0.227
6. Unit peak discharge, q_u ..... (Use T_c and I_a/P with exhibit 4-II)	csm/in	370	350	340
7. Runoff, Q ..... (From worksheet 2).	in	1.80	1.10	0.68
8. Pond and swamp adjustment factor, F_p .... (Use percent pond and swamp area with table 4-2. Factor is 1.0 for zero percent pond and swamp area.)		—	—	—
9. Peak discharge, q_p ..... (Where $q_p = q_u A_m Q F_p$)	cfs	1285	743	446

[1] Tc assumed same as Subarea #1 as calculated in Original Inlet Hydrology dated 3/89

```
 SSSSSSSS        CCCCCCCC        SSSSSSSS          0000              44  44      MM        MM
SSSSSSSSSS      CCCCCCCCCC      SSSSSSSSSS        00000000           44  44      MMM      MMM
SS        SS    CC        CC    SS        SS     000    000         44  44      MMMM    MMMM
SSS       SS    CC        CC    SSS       SS    000    00000       44    44     MMMMM  MMMMM
  SSS           CC                SSS           00    00  00     44      44     MM MMMMMM MM
    SSS         CC                  SSS         00   00   00   4444444444     MM  MMMM  MM
      SSS       CC                    SSS       00  00    00  444444444444     MM   MM   MM
        SSS     CC                      SSS     00 00     00            44     MM        MM
SS        SS    CC        CC    SS        SS    0000     000            44     MM        MM
SS        SS    CC        CC    SS        SS     000    000             44     MM        MM
SSSSSSSSSS      CCCCCCCCCC      SSSSSSSSSS        00000000               44     MM        MM
 SSSSSSSS        CCCCCCCC        SSSSSSSS          0000                  44     MM        MM
```

RWCD- REACH 2
INLET HYDROLOGY
(EXISTING CONDITIONS

* * * * * * UNIVAC 1100 TIME/SHARING EXEC --- MULTI-PROCESSOR SYSTEM --- LEV. SA-37R2A-2M SITE * SITEID * * * * * *

With Area 7

Q10, Q25 & Q100

3.25

RUNID * SCS04M USER ID * PART NUMBER * 00 INPUT DEVICE * CR0904 OUTPUT DEVICE * PR0904

FILE NAME * PR@000SCS04M CREATED AT: 16:04:03 MAR 11,1982 PRINTED AT: 07:44:26 MAR 12,1982

```
@RUN,L SCS04M,1604000101  ,SCS04,5,5000/1000 . RWCD-REACH2

@SYM PRINT$,1,FCR904

@ASG,T 25.,F///50

@ASG,T 23.,F///50

@ASG,T 22.,F///50

@XQT   SCS76*ABS.TR20
```

RWCD,REACH 2,INLET HYDROLOGY(EXISTING CONDITION) 03/10/82

TR-20 HYDROLOGY

PROGRAM DATE - FEB. 14, 1974 S/360

PASS= 1

EXECUTIVE CONTROL CARD 58 OPERATION LIST

LISTING OF DATA IN CORE

0 RWCD,REACH 2,INLET HYDROLOGY(EXISTING CONDITION)

VELOCITY INCREMENT

1 CTABLE .2000

8	.0000	.0800	.1800	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300

9 ENDTBL

TIME INCREMENT

4 DIMHYD

8	.0000	.0300	.1000	.1900	.3100
8	.4700	.6600	.8200	.9300	.9900
8	1.0000	.9900	.9300	.8600	.7800
8	.6800	.5600	.4600	.3900	.3300
8	.2800	.2410	.2070	.1740	.1470
8	.1260	.1070	.0910	.0770	.0660
8	.0550	.0470	.0400	.0340	.0290
8	.0250	.0210	.0180	.0150	.0130
8	.0110	.0090	.0080	.0070	.0060
8	.0050	.0040	.0030	.0020	.0010
8	.0000	.0000	.0000	.0000	.0000

9 ENDTBL

COMPUTED PEAK K FACTOR = 484.00

TIME INCREMENT

5 RATINFL 1 .2500

Type 1, 24 Hour

```
8                .0000       .0080       .0170       .0260       .0350
8                .0450       .0550       .0650       .0760       .0870
8                .0990       .1120       .1250       .1400       .1560
8                .1740       .1940       .2190       .2540       .3030
8                .5150       .5830       .6240       .6540       .6820
8                .7050       .7270       .7480       .7670       .7840
8                .8000       .8160       .8300       .8440       .8570
8                .8700       .8820       .8930       .9050       .9160
8                .9260       .9360       .9460       .9550       .9650
8                .9740       .9830       .9920      1.0000      1.0000
9 ENDTBL

                TIME INCREMENT
5 RAINFL 2                .5000
```

Type 2, 24-Hour

```
8                .0000       .0050       .0110       .0160       .0220
8                .0280       .0350       .0410       .0480       .0560
8                .0630       .0710       .0800       .0890       .0980
8                .1090       .1200       .1330       .1470       .1630
8                .1810       .2040       .2350       .2830       .6630
8                .7350       .7720       .7990       .8200       .8380
8                .8540       .8680       .8800       .8910       .9020
8                .9120       .9210       .9290       .9370       .9450
8                .9520       .9590       .9650       .9720       .9780
8                .9840       .9890       .9950      1.0000      1.0000
9 ENDTBL

                TIME INCREMENT
5 RAINFL 3                .0200
```

NEH 4, Type 6

```
8                .0000       .0080       .0162       .0246       .0333
8                .0425       .0524       .0630       .0743       .0863
8                .0990       .1124       .1265       .1420       .1600
8                .1800       .2050       .2550       .3450       .4370
8                .5300       .6030       .6330       .6600       .6840
8                .7050       .7240       .7420       .7590       .7750
8                .7900       .8043       .8180       .8312       .8439
8                .8561       .8678       .8790       .8898       .9002
8                .9103       .9201       .9297       .9391       .9483
8                .9573       .9661       .9747       .9832       .9916
8               1.0000      1.0000      1.0000      1.0000      1.0000
9 ENDTBL
```

STANDARD CONTROL INSTRUCTIONS

6	RUNOFF	1	1		6	3.2500	81.0000	.90001	1	0	1	0	1
6	REACH	3	102	6	5	3000.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	2		6	.3400	76.0000	.31001	1	0	1	0	1
6	ADDHYD	4	102	5 6	7			1	1	0	1	0	1
6	REACH	3	103	7	5	2000.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	3		6	.6200	80.0000	.28001	1	0	1	0	1
6	ADDHYD	4	103	5 6	7			1	1	0	1	0	1
6	REACH	3	104	7	5	2800.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	4		6	.6600	83.0000	.44001	1	0	1	0	1
6	ADDHYD	4	104	5 6	7			1	1	0	1	0	1
6	SAVMOV	5	104	7	1								
6	RUNOFF	1	5		6	.6800	83.0000	.20001	1	0	1	0	1
6	REACH	3	108	6	5	5000.0000	.6500	.00000	0	0	0	0	0
6	RUNOFF	1	8		6	.5200	76.0000	.45001	1	0	1	0	1
6	ADDHYD	4	108	5 6	7			1	1	0	1	0	1
6	DIVERT	6	108	7 2	3	2000.0000	1.0000	.00000	0	0	0	0	0
6	REACH	3	109	2	5	3000.0000	.6500	.00001	1	0	1	0	0
6	SAVMOV	5	109	5	2								
6	RUNOFF	1	6		6	1.1000	82.0000	.58001	1	0	1	0	1
6	REACH	3	109	6	5	6500.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	9		6	.7900	76.0000	.63001	1	0	1	0	1
6	ADDHYD	4	109	5 6	7			1	1	0	1	0	0
6	SAVMOV	5	109	7	5								
6	SAVMOV	5	109	2	6								
6	ADDHYD	4	109	5 6	7			1	1	0	1	0	1
6	DIVERT	6	109	7 2	4	400.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	310	4	5	900.0000	.6300	.00001	1	0	1	0	1
6	DIVERT	6	310	5 4	6	300.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	410	6	5	2000.0000	.4500	.00001	0	0	1	0	0
6	RUNOFF	1	410		6	.4300	62.0000	.50001	1	0	1	0	1
6	ADDHYD	4	410	5 6	7			1	1	0	1	0	0
6	ADDHYD	4	411	2 4	5			1	1	0	0	0	1
6	SAVMOV	5	411	5	2								
6	DIVERT	6	410	7 4	6	110.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	510	6	5	3200.0000	.4500	.00001	1	0	1	0	1
6	ADDHYD	4	511	2 4	7			1	1	0	0	0	1
6	SAVMOV	5	511	7	2								
6	DIVERT	6	510	5 4	6	120.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	610	6	5	3400.0000	.4500	.00001	1	0	1	0	0
6	RUNOFF	1	610		6	.4600	62.0000	.81001	1	0	1	0	1
6	ADDHYD	4	610	5 6	7			1	1	0	1	0	0
6	ADDHYD	4	611	2 4	5			1	1	0	1	0	1
6	SAVMOV	5	611	5	2								
6	DIVERT	6	610	7 4	6	130.0000	.0000	.00000	0	0	0	0	0
6	REACH	3	710	6	5	700.0000	.4500	.00001	1	0	1	0	1
6	ADDHYD	4	711	2 4	7			1	1	0	0	0	1
6	SAVMOV	5	711	7	2								
6	SAVMOV	5	710	5	4								
6	RUNOFF	1	209		6	.0400	76.0000	.28001	1	0	1	0	1
6	ADDHYD	4	209	3 6	7			1	1	0	0	0	0
6	REACH	3	208	7	5	5800.0000	.4700	.00001	1	0	1	0	0
6	RUNOFF	1	209		6	.2000	76.0000	.95001	1	0	1	0	1
6	ADDHYD	4	209	5 6	7			1	1	0	1	0	1

```
6 SAVMOV 5 208    7    6
6 REACH  3 211    1    5     5400.0000        .9000        .00001 1 0 0 0 0
6 ADDHYD 4 211    5 6  7                                       1 1 0 1 0 1
6 REACH  3 712    7    5     6300.0000        .7500        .00001 1 0 1 0 0
6 ADDHYD 4 712    5 4  7                                       1 1 0 1 0 1
  ENDATA
```

END OF LISTING

100-YR FREQ

PASS= 1

EXECUTIVE CONTROL CARD 59 OPERATION INCREM, MAIN TIME INCREMENT= .20
EXECUTIVE CONTROL CARD 60 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 3.70 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 1 Subarea 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.41	1990.436	(RUNOFF)
21.76	83.681	(RUNOFF)
23.75	71.626	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.04	.32	1.18	2.98	5.57	8.88	12.89	17.50
10.00	DISCHG	22.68	28.78	36.45	45.83	57.64	73.45	94.10	122.65	208.35	508.80
12.00	DISCHG	1107.22	1757.58	1990.14	1786.09	1402.70	1054.20	811.40	632.74	511.84	427.92
14.00	DISCHG	365.40	319.08	285.11	258.34	237.27	221.51	209.45	198.37	188.32	178.62
16.00	DISCHG	169.04	160.26	152.68	146.51	141.99	139.18	137.02	134.27	130.79	126.74
18.00	DISCHG	122.37	117.92	113.24	108.79	105.25	102.96	101.73	101.01	100.39	98.88
20.00	DISCHG	96.28	93.41	91.20	89.62	87.66	84.69	82.26	81.87	83.12	83.65
22.00	DISCHG	82.45	80.38	78.61	77.28	75.43	72.52	70.12	69.74	71.01	71.56
24.00	DISCHG	69.89	64.49	52.74	37.10	23.04	13.23	7.91	4.64	2.66	1.55
26.00	DISCHG	.89	.48	.24	.11	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8696 CFS-HRS= 3921.43 ACRE-FT= 324.07

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2 Subarea 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	270.919	(RUNOFF)
16.91	12.668	(RUNOFF)
19.32	9.387	(RUNOFF)
21.50	8.217	(RUNOFF)
23.50	7.126	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.19	.72	1.46	2.33	3.86	5.25	8.31	12.22	32.09	156.55

12.00	DISCHG	268.43	214.01	104.56	76.11	49.72	40.91	35.16	30.30	28.68	24.65
14.00	DISCHG	23.27	21.71	20.27	19.76	18.43	17.97	16.99	16.03	15.57	14.23
16.00	DISCHG	13.74	13.18	12.69	12.59	12.60	12.62	12.16	11.67	11.45	10.75
18.00	DISCHG	10.50	9.98	9.46	9.35	9.34	9.35	9.36	9.38	9.26	8.56
20.00	DISCHG	8.31	8.26	8.26	8.13	7.44	7.18	7.63	8.16	8.14	7.47
22.00	DISCHG	7.22	7.17	7.16	7.03	6.32	6.06	6.51	7.04	7.04	6.34
24.00	DISCHG	6.05	3.50	.79	.16	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5142 CFS-HRS= 332.25 ACRE-FT= 27.46

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.56	1975.178	(NULL)
21.78	90.666	(NULL)
23.75	77.444	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.13	.58	1.70	3.66	6.40	9.87	14.01
10.00	DISCHG	18.93	24.88	32.15	41.11	52.64	66.93	87.00	113.69	180.35	456.66
12.00	DISCHG	947.57	1478.30	1870.88	1967.05	1722.66	1365.14	1046.09	809.97	641.61	522.62
14.00	DISCHG	440.12	378.85	333.33	299.84	272.78	252.37	236.28	223.16	211.81	200.42
16.00	DISCHG	190.22	180.34	171.38	164.05	158.29	154.19	150.96	148.03	144.85	140.55
18.00	DISCHG	136.21	131.33	126.30	121.61	117.43	114.23	112.18	111.02	110.15	108.52
20.00	DISCHG	106.47	103.85	101.24	99.05	96.59	94.05	91.81	90.56	90.50	90.66
22.00	DISCHG	90.40	89.03	87.16	85.39	83.13	80.72	78.53	77.30	77.27	77.43
24.00	DISCHG	76.98	71.74	61.88	48.86	34.06	21.30	12.58	7.47	4.38	2.53
26.00	DISCHG	1.47	.83	.45	.23	.10	.03	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8357 CFS-HRS= 4253.00 ACRE-FT= 351.47

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3 Subarea 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	621.494	(RUNOFF)
16.91	25.444	(RUNOFF)
19.31	18.750	(RUNOFF)
20.30	16.500	(RUNOFF)
21.48	16.400	(RUNOFF)
23.47	14.134	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.17	.70	1.47	2.34	3.23	4.43
10.00	DISCHG	5.48	7.43	9.53	11.69	16.32	19.40	28.28	37.67	96.07	409.73
12.00	DISCHG	621.41	424.90	200.73	149.77	96.47	82.45	69.93	60.98	57.76	49.33
14.00	DISCHG	47.03	43.51	40.82	39.84	36.96	36.22	33.97	32.16	31.29	28.32
16.00	DISCHG	27.55	26.34	25.41	25.28	25.29	25.32	24.23	23.32	22.84	21.37
18.00	DISCHG	20.97	19.77	18.83	18.67	18.66	18.68	18.70	18.72	18.41	16.94
20.00	DISCHG	16.52	16.46	16.46	16.16	14.65	14.26	15.34	16.31	16.21	14.71
22.00	DISCHG	14.30	14.24	14.23	13.91	12.39	11.99	13.08	14.06	13.91	12.44
24.00	DISCHG	12.02	6.04	1.11	.19	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7961 CFS-HRS= 718.68 ACRE-FT= 59.39

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	2062.084	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.08	.54	1.89	4.22	7.46	11.47	16.48
10.00	DISCHG	22.08	29.50	38.25	48.57	63.53	79.58	105.86	138.80	245.78	740.79
12.00	DISCHG	1341.17	1650.87	1879.47	2061.21	1924.79	1614.43	1269.67	986.64	782.27	630.60
14.00	DISCHG	527.89	452.44	396.48	356.12	322.93	298.58	278.11	261.70	248.60	234.20
16.00	DISCHG	222.68	211.42	201.11	192.89	186.39	181.53	176.77	172.76	169.20	163.94
18.00	DISCHG	159.25	153.42	147.53	142.53	138.11	134.47	131.90	130.32	128.99	126.21
20.00	DISCHG	123.96	121.55	118.95	116.27	112.41	109.52	108.23	107.50	106.78	105.30
22.00	DISCHG	104.82	103.89	102.27	100.15	96.59	93.86	92.66	91.98	91.24	89.80
24.00	DISCHG	89.20	80.14	67.56	55.17	41.10	27.47	16.89	10.04	5.93	3.46
26.00	DISCHG	2.00	1.15	.64	.34	.16	.06	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8295 CFS-HRS= 4970.75 ACRE-FT= 410.78

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4 Subarea 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	634.872	(RUNOFF)
19.31	21.137	(RUNOFF)
21.56	19.225	(RUNOFF)
23.56	15.656	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8.00	DISCHG	.33	.83	1.51	2.24	3.05	3.89	4.85	6.03	7.16	8.58
10.00	DISCHG	10.01	11.98	14.83	17.50	22.23	26.99	34.45	46.52	85.44	318.96
12.00	DISCHG	597.83	608.36	366.58	233.33	158.39	114.53	93.54	77.47	70.09	61.96
14.00	DISCHG	56.13	52.55	48.58	46.52	43.96	42.04	40.29	37.82	36.38	33.99
16.00	DISCHG	32.08	30.87	29.52	28.91	28.74	28.69	28.14	27.00	26.31	25.08
18.00	DISCHG	24.11	23.21	21.94	21.35	21.17	21.12	21.11	21.12	20.98	19.95
20.00	DISCHG	19.03	18.71	18.61	18.43	17.37	16.46	16.71	17.80	18.20	17.32
22.00	DISCHG	16.46	16.16	16.07	15.87	14.81	13.88	14.14	15.24	15.63	14.75
24.00	DISCHG	13.83	10.56	4.48	1.48	.49	.16	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0310 CFS-HRS= 865.09 ACRE-FT= 71.49

SUBROUTINE ADDHYD CROSS SECTION 104 (Subareas 1, +2, +3 +4)
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.68	2167.518	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8.00	DISCHG	.33	.83	1.52	2.27	3.30	4.90	7.50	11.27	15.84	21.58
10.00	DISCHG	28.16	36.34	46.96	58.84	75.50	95.24	122.45	162.48	261.45	741.40
12.00	DISCHG	1523.63	2013.53	2072.31	2159.12	2151.56	1931.64	1604.22	1271.31	1006.12	806.67
14.00	DISCHG	662.55	562.01	487.20	433.16	391.47	358.92	333.50	311.67	294.69	278.41
16.00	DISCHG	263.25	250.39	238.09	227.88	219.95	213.86	208.34	202.70	198.11	192.64
18.00	DISCHG	186.75	180.71	173.66	167.53	162.50	158.26	154.95	152.67	150.96	148.02
20.00	DISCHG	144.63	141.97	139.40	136.61	132.43	128.12	126.02	125.89	125.51	123.61
22.00	DISCHG	121.71	120.69	119.43	117.49	113.81	109.74	107.81	107.77	107.40	105.52
24.00	DISCHG	103.52	96.42	80.62	65.48	51.50	37.39	24.77	15.31	9.16	5.41
26.00	DISCHG	3.16	1.83	1.05	.58	.30	.14	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8561 CFS-HRS= 5833.56 ACRE-FT= 482.09

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 5 Subarea 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.96	848.941	(RUNOFF)
16.90	29.804	(RUNOFF)
19.31	21.864	(RUNOFF)
20.30	19.218	(RUNOFF)
21.40	19.135	(RUNOFF)
22.32	16.596	(RUNOFF)
23.48	16.492	(RUNOFF)

TIME		HYDROGRAPH, TZERO= .00					DELTA T= .20		DRAINAGE AREA= .68		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
8.00	DISCHG	.73	1.49	2.26	3.06	3.99	4.80	6.20	7.33	8.58	10.36
10.00	DISCHG	11.56	15.34	17.79	21.40	28.31	31.48	48.48	58.08	198.33	648.64
12.00	DISCHG	832.94	358.35	194.84	157.72	100.91	94.99	76.02	70.32	65.85	55.91
14.00	DISCHG	54.90	49.23	47.47	46.01	42.66	42.34	38.54	37.32	35.85	32.41
16.00	DISCHG	32.06	30.13	29.52	29.51	29.54	29.57	27.64	27.02	26.27	24.54
18.00	DISCHG	24.36	22.36	21.75	21.71	21.72	21.74	21.76	21.78	21.06	19.31
20.00	DISCHG	19.12	19.12	19.13	18.42	16.64	16.47	18.45	19.13	18.48	16.69
22.00	DISCHG	16.51	16.50	16.51	15.78	13.99	13.81	15.82	16.49	15.81	14.03
24.00	DISCHG	13.83	3.57	.32	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0008 CFS-HRS= 878.07 ACRE-FT= 72.56

SUBROUTINE REACH CROSS SECTION 108
LENGTH= 5000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.43

SUBROUTINE RUNOFF CROSS SECTION 8 Subarea 8A
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	363.383	(RUNOFF)
19.33	14.335	(RUNOFF)
21.57	12.430	(RUNOFF)
23.57	10.716	(RUNOFF)

TIME		HYDROGRAPH, TZERO= .00					DELTA T= .20		DRAINAGE AREA= .52		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.16	.71	1.67	2.85	4.72	6.91	10.25	15.65	33.53	150.35
12.00	DISCHG	319.52	357.05	227.60	148.69	102.15	74.62	61.29	50.95	46.05	40.89
14.00	DISCHG	37.05	34.76	32.22	30.87	29.22	27.96	26.86	25.28	24.33	22.77
16.00	DISCHG	21.50	20.70	19.83	19.42	19.31	19.29	18.95	18.22	17.75	16.96
18.00	DISCHG	16.31	15.71	14.88	14.46	14.34	14.31	14.31	14.33	14.25	13.57
20.00	DISCHG	12.95	12.73	12.67	12.56	11.86	11.23	11.39	12.11	12.42	11.85
22.00	DISCHG	11.26	11.05	10.99	10.87	10.16	9.52	9.68	10.41	10.71	10.14
24.00	DISCHG	9.51	7.34	3.21	1.09	.37	.12	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5145 CFS-HRS= 508.26 ACRE-FT= 42.00

SUBROUTINE ADDHYD CROSS SECTION 108
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.24	931.325	(NULL)
21.47	70.703	(NULL)

23.67 26.340 (NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.07	.32	.81	1.46	2.19	3.01	3.86	4.87	6.03	7.22
10.00	DISCHG	8.76	10.75	13.83	17.69	22.49	29.06	37.07	50.74	79.59	248.47
12.00	DISCHG	620.12	921.26	803.50	551.07	368.02	255.16	191.21	152.80	130.26	115.03
14.00	DISCHG	102.89	94.31	87.05	81.77	77.54	73.79	70.69	66.96	63.76	60.44
16.00	DISCHG	56.96	54.24	51.83	50.10	49.28	48.98	48.55	47.18	45.75	44.12
18.00	DISCHG	42.37	40.81	38.88	37.30	36.49	36.19	36.10	36.09	36.02	35.12
20.00	DISCHG	33.66	32.55	32.05	31.78	30.79	29.29	28.56	29.48	30.62	30.41
22.00	DISCHG	29.22	28.22	27.74	27.47	26.47	24.95	24.20	25.13	26.26	26.04
24.00	DISCHG	24.81	21.84	14.02	6.63	2.64	.96	.34	.11	.04	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7984 CFS-HRS= 1392.77 ACRE-FT= 115.10

SUBROUTINE DIVERT CROSS SECTION 108
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109 Subarea 5 + 8A
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	815.089	(NULL)
21.90	30.339	(NULL)
23.90	25.972	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.29	.71	1.30	2.00	2.78	3.62	4.60	5.70
10.00	DISCHG	6.89	8.37	10.31	13.11	16.73	21.34	27.44	35.41	48.78	86.51
12.00	DISCHG	234.36	529.36	787.59	773.84	602.59	430.09	303.43	222.43	172.29	141.87
14.00	DISCHG	122.21	108.07	97.89	89.91	83.90	79.16	75.16	71.72	68.13	64.80
16.00	DISCHG	61.46	58.10	55.21	52.71	50.84	49.73	49.17	48.61	47.49	46.13
18.00	DISCHG	44.58	42.91	41.28	39.47	37.90	36.90	36.40	36.19	36.12	35.96
20.00	DISCHG	35.24	34.04	32.97	32.31	31.85	30.97	29.75	29.02	29.45	30.24
22.00	DISCHG	30.24	29.44	28.55	27.97	27.52	26.65	25.40	24.67	25.09	25.88
24.00	DISCHG	25.87	24.85	22.01	15.79	9.09	4.48	2.00	.83	.33	.13
26.00	DISCHG	.05	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7951 CFS-HRS= 1390.22 ACRE-FT= 114.89

SUBROUTINE SAVMOV CROSS SECTION 107
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE RUNOFF CROSS SECTION 6 Subarea 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.20	913.084	(RUNOFF)
21.63	29.411	(RUNOFF)
23.63	25.196	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.11	.56	1.38	2.45	3.67	5.05	6.68	8.43	10.42
10.00	DISCHG	12.61	15.28	18.99	23.16	29.01	36.21	45.90	61.21	108.16	340.66
12.00	DISCHG	726.14	913.06	725.21	483.07	334.92	238.02	183.20	148.12	125.71	109.84
14.00	DISCHG	97.68	89.84	83.07	78.22	74.16	70.47	67.48	63.84	60.85	57.55
16.00	DISCHG	54.12	51.71	49.47	47.93	47.28	47.03	46.46	44.96	43.62	42.02
18.00	DISCHG	40.29	38.84	36.95	35.54	34.93	34.67	34.58	34.56	34.43	33.36
20.00	DISCHG	31.88	31.01	30.65	30.34	29.21	27.71	27.36	28.45	29.40	28.85
22.00	DISCHG	27.60	26.81	26.48	26.17	25.04	23.54	23.19	24.26	25.18	24.64
24.00	DISCHG	23.25	19.62	11.99	5.51	2.41	1.04	.44	.18	.06	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9467 CFS-HRS= 1382.00 ACRE-FT= 114.21

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 6500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.33

SUBROUTINE RUNOFF CROSS SECTION 9 Subarea 9A
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.24	481.992	(RUNOFF)
21.65	18.565	(RUNOFF)
23.65	15.935	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.13	.65	1.70	3.22	5.43	8.35	12.43	18.82	39.63	137.86
12.00	DISCHG	334.21	478.10	414.47	293.92	209.40	152.30	116.77	94.61	80.18	69.84
14.00	DISCHG	61.56	56.19	52.05	48.86	46.33	44.06	42.17	40.04	38.11	36.16
16.00	DISCHG	34.10	32.52	31.14	30.14	29.65	29.44	29.10	28.31	27.49	26.53
18.00	DISCHG	25.48	24.53	23.45	22.54	22.07	21.87	21.80	21.78	21.69	21.14
20.00	DISCHG	20.28	19.68	19.42	19.21	18.59	17.71	17.38	17.91	18.54	18.32
22.00	DISCHG	17.61	17.08	16.84	16.64	16.02	15.10	14.76	15.33	15.91	15.72
24.00	DISCHG	14.94	12.96	8.44	4.24	1.99	.93	.42	.19	.08	.03
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5135 CFS-HRS= 771.66 ACRE-FT= 63.77

SUBROUTINE ADDHYD CROSS SECTION 109 Subareas 6 + 9
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.44	1173.841	(NULL)
21.80	47.112	(NULL)
23.80	40.307	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.89

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.05	.31	.89	1.77	2.86	4.12	5.60	7.25
10.00	DISCHG	9.22	11.78	15.22	19.84	25.81	33.61	43.94	58.48	91.30	219.32
12.00	DISCHG	548.07	971.83	1169.32	1074.25	832.64	600.97	434.66	327.01	259.24	215.18
14.00	DISCHG	184.71	163.62	148.49	137.15	128.42	121.32	115.36	109.78	104.42	99.20
16.00	DISCHG	93.93	89.00	84.72	81.25	78.81	77.38	76.43	75.15	73.32	71.08
18.00	DISCHG	68.57	65.99	63.35	60.74	58.67	57.39	56.76	56.49	56.29	55.65
20.00	DISCHG	54.22	52.47	51.12	50.23	49.19	47.57	46.04	45.70	46.54	47.11
22.00	DISCHG	46.58	45.36	44.24	43.44	42.43	40.79	39.25	38.95	39.73	40.31
24.00	DISCHG	39.70	36.96	30.13	20.71	12.03	6.13	2.90	1.31	.57	.23
26.00	DISCHG	.08	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7648 CFS-HRS= 2152.56 ACRE-FT= 177.89

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7 Subareas 5 + 8A + 6 + 9A

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	1983.624	(NULL)
21.84	77.394	(NULL)
23.84	66.220	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.08	305.83
12.00	DISCHG	782.43	1501.19	1956.92	1848.09	1435.24	1031.06	738.08	549.43	431.53	357.05
14.00	DISCHG	306.92	271.69	246.38	227.06	212.31	200.48	190.52	181.49	172.55	164.00
16.00	DISCHG	155.39	147.10	139.93	133.97	129.64	127.11	125.60	123.76	120.81	117.21
18.00	DISCHG	113.16	109.90	104.62	100.21	96.56	94.29	93.16	92.68	92.41	91.61

20.00	DISCHG	89.45	86.52	84.09	82.54	81.03	78.54	75.78	74.72	75.99	77.35
22.00	DISCHG	76.82	74.80	72.79	71.41	69.96	67.43	64.65	63.61	64.83	66.18
24.00	DISCHG	65.57	61.81	52.14	36.50	21.12	10.61	4.90	2.14	.89	.35
26.00	DISCHG	.12	.04	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7766 CFS-HRS= 3542.78 ACRE-FT= 292.78

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310 TOTAL Flow @ Bridge 3
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.54	1489.989	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	260.90	865.15	1397.28	1472.65	1167.97	767.83	439.77	215.77	73.16	12.63
14.00	DISCHG	.79	.05	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6691 CFS-HRS= 1334.41 ACRE-FT= 110.28

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410 (Flow From Subareas 5, 8A, 6, & 9A)
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.87	918.278	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4315 CFS-HRS= 860.47 ACRE-FT= 71.11

SUBROUTINE RUNOFF CROSS SECTION 410 (Subarea 10A)
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	112.862	(RUNOFF)
16.91	10.006	(RUNOFF)
19.38	7.608	(RUNOFF)
21.60	6.679	(RUNOFF)
23.79	5.813	(RUNOFF)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= .43		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.33	13.39
12.00	DISCHG	66.98	111.99	88.81	63.28	47.42	35.79	29.83	25.20	22.48	20.25
14.00	DISCHG	18.40	17.27	16.11	15.42	14.72	14.11	13.63	12.90	12.42	11.74
16.00	DISCHG	11.09	10.69	10.27	10.04	9.99	9.99	9.87	9.54	9.30	8.95
18.00	DISCHG	8.61	8.32	7.91	7.66	7.59	7.58	7.59	7.61	7.58	7.30
20.00	DISCHG	6.97	6.83	6.79	6.74	6.43	6.09	6.12	6.47	6.68	6.46
22.00	DISCHG	6.15	6.01	5.97	5.91	5.60	5.25	5.27	5.62	5.81	5.59
24.00	DISCHG	5.27	4.27	2.16	.81	.31	.12	.04	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7115 CFS-HRS= 197.45 ACRE-FT= 16.32

SUBROUTINE ADDHYD CROSS SECTION 410 Total Flow @ Bridge No. 4
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.86	961.338	(NULL)
16.91	10.006	(NULL)
19.38	7.608	(NULL)
21.60	6.679	(NULL)
23.59	5.813	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= 3.52		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.33	13.39
12.00	DISCHG	66.98	139.13	396.52	749.05	949.42	902.43	691.61	432.75	236.79	132.94
14.00	DISCHG	77.66	48.43	32.50	24.04	19.25	16.49	14.88	13.56	12.76	11.92
16.00	DISCHG	11.19	10.74	10.30	10.06	9.99	9.99	9.87	9.54	9.30	8.95
18.00	DISCHG	8.61	8.32	7.91	7.66	7.59	7.58	7.59	7.61	7.58	7.30
20.00	DISCHG	6.97	6.83	6.79	6.74	6.43	6.09	6.12	6.47	6.68	6.46
22.00	DISCHG	6.15	6.01	5.97	5.91	5.60	5.25	5.27	5.62	5.81	5.59
24.00	DISCHG	5.27	4.27	2.16	.81	.31	.12	.04	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4657 CFS-HRS= 1057.92 ACRE-FT= 87.43

SUBROUTINE ADDHYD CROSS SECTION 411 (Total Disc Thru Bridges 2 & 3)
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.10	710.555	(NULL)
21.84	77.394	(NULL)
23.84	66.220	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= .00		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

18

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.08	305.83
12.00	DISCHG	660.90	700.00	700.00	700.00	700.00	700.00	700.00	615.77	473.16	369.69
14.00	DISCHG	307.71	271.74	246.38	227.06	212.31	200.48	190.52	181.49	172.55	164.00
16.00	DISCHG	155.39	147.10	139.93	133.97	129.64	127.11	125.60	123.76	120.81	117.21
18.00	DISCHG	113.15	108.90	104.62	100.21	96.56	94.29	93.16	92.68	92.41	91.61
20.00	DISCHG	89.45	86.52	84.09	82.54	81.03	78.54	75.78	74.72	75.99	77.35
22.00	DISCHG	76.82	74.80	72.79	71.41	69.96	67.43	64.65	63.61	64.83	66.18
24.00	DISCHG	65.57	61.81	52.14	36.50	21.12	10.61	4.90	2.14	.89	.35
26.00	DISCHG	.12	.04	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 2674.52 ACRE-FT= 221.02

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510 Total Flow @ Bridge No. 5
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.42	618.550	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	4.94	56.78	195.26	388.19	551.31	617.88	575.13	458.03
14.00	DISCHG	319.28	200.85	118.79	68.08	38.35	21.39	11.86	6.56	3.62	1.99
16.00	DISCHG	1.10	.60	.33	.18	.10	.06	.03	.02	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3205 CFS-HRS= 728.18 ACRE-FT= 60.18

SUBROUTINE ADDHYD CROSS SECTION 511 (Total Disc Thru Bridge 2, 3 & 4)
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.10	820.559	(NULL)
21.82	83.810	(NULL)
23.81	71.775	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

19

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.41	319.22
12.00	DISCHG	727.88	810.00	810.00	810.00	810.00	810.00	810.00	725.77	583.16	479.69
14.00	DISCHG	385.37	320.17	278.87	251.10	231.56	216.97	205.39	195.05	185.31	175.91
16.00	DISCHG	166.58	157.84	150.22	144.03	139.63	137.10	135.47	133.30	130.11	126.16
18.00	DISCHG	121.76	117.22	112.53	107.88	104.15	101.87	100.75	100.28	99.99	98.91
20.00	DISCHG	96.43	93.35	90.88	89.28	87.47	84.63	81.90	81.19	82.67	83.80
22.00	DISCHG	82.97	80.81	78.76	77.32	75.55	72.68	69.92	69.23	70.64	71.77
24.00	DISCHG	70.84	66.08	54.30	37.31	21.43	10.73	4.94	2.15	.90	.35
26.00	DISCHG	.12	.04	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 3006.16 ACRE-FT= 248.43

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610 (Flow From Subareas 5, 8A, 6, 9A & 10A @ Bridge No. 6)
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.53

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.03	373.033	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	.00	.00	9.83	55.24	145.10	252.03	337.13
14.00	DISCHG	372.50	352.32	290.22	208.56	133.55	80.71	47.18	27.03	15.28	8.56
16.00	DISCHG	4.77	2.65	1.47	.81	.45	.25	.14	.07	.04	.02
18.00	DISCHG	.01	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2065 CFS-HRS= 469.19 ACRE-FT= 38.77

SUBROUTINE RUNOFF CROSS SECTION 610 (Subarea 10B)
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	88.140	(RUNOFF)
21.76	6.976	(RUNOFF)
23.73	6.047	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

18

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.39	5.39
12.00	DISCHG	30.19	67.05	86.85	82.76	67.86	53.82	43.22	35.68	30.32	26.47
14.00	DISCHG	23.44	21.18	19.37	17.96	16.93	16.09	15.39	14.70	14.04	13.38
16.00	DISCHG	12.72	12.12	11.60	11.21	10.94	10.82	10.71	10.51	10.26	9.97
18.00	DISCHG	9.63	9.29	8.93	8.60	8.37	8.24	8.18	8.16	8.13	8.01
20.00	DISCHG	7.79	7.56	7.41	7.31	7.15	6.89	6.71	6.75	6.91	6.97
22.00	DISCHG	6.82	6.63	6.51	6.42	6.26	5.99	5.79	5.84	6.00	6.04
24.00	DISCHG	5.87	5.32	4.14	2.68	1.52	.82	.46	.25	.14	.07
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7100 CFS-HRS= 210.78 ACRE-FT= 17.42

SUBROUTINE ADDHYD CROSS SECTION 610 Total Flow @ Bridge No. 6
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	88.140	(NULL)
14.02	396.180	(NULL)
21.76	6.976	(NULL)
23.73	6.047	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.39	5.39
12.00	DISCHG	30.19	67.05	86.85	82.76	67.86	63.65	98.46	180.78	282.35	363.59
14.00	DISCHG	395.94	373.50	309.59	226.52	150.48	96.80	62.58	41.73	29.32	21.94
16.00	DISCHG	17.49	14.77	13.07	12.02	11.39	11.06	10.84	10.59	10.30	9.99
18.00	DISCHG	9.64	9.29	8.93	8.60	8.37	8.24	8.18	8.16	8.13	8.01
20.00	DISCHG	7.79	7.56	7.41	7.31	7.15	6.89	6.71	6.75	6.91	6.97
22.00	DISCHG	6.82	6.63	6.51	6.42	6.26	5.99	5.79	5.84	6.00	6.04
24.00	DISCHG	5.87	5.32	4.14	2.68	1.52	.82	.46	.25	.14	.07
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2647 CFS-HRS= 679.98 ACRE-FT= 56.19

SUBROUTINE ADDHYD CROSS SECTION 611 (Total Disc Thru Bridges 2, 3, 4 & 5)
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.10	940.564	(NULL)
21.82	83.810	(NULL)
23.81	71.775	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.41	319.22
12.00	DISCHG	727.88	810.00	814.94	866.78	930.00	930.00	930.00	845.77	703.16	599.69
14.00	DISCHG	505.37	440.17	397.66	319.18	269.91	238.36	217.26	201.61	188.93	177.91
16.00	DISCHG	167.67	158.45	150.56	144.21	139.73	137.16	135.50	133.32	130.12	126.16
18.00	DISCHG	121.76	117.22	112.53	107.88	104.15	101.87	100.75	100.28	99.99	98.91
20.00	DISCHG	96.43	93.35	90.88	89.28	87.47	84.63	81.90	81.19	82.67	83.80
22.00	DISCHG	82.97	80.81	78.76	77.32	75.55	72.68	69.92	69.23	70.64	71.77
24.00	DISCHG	70.84	66.08	54.30	37.31	21.43	10.73	4.94	2.15	.90	.35
26.00	DISCHG	.12	.04	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 3263.56 ACRE-FT= 269.70

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

USE FOR INLET DESIGN (100-YR Freq)

SUBROUTINE REACH CROSS SECTION 710 (Total Flow above R.R. @ RWCD From Subarea 5, 8A, 6, 9A, 10A & 10b)
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.14	250.034	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	26.77	98.80	182.83
14.00	DISCHG	238.94	247.87	210.81	142.99	67.15	20.45	4.72	1.09	.25	.06
16.00	DISCHG	.01	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0968 CFS-HRS= 248.64 ACRE-FT= 20.55

SUBROUTINE ADDHYD CROSS SECTION 711 (Total Disc Thru Bridge 2, 3, 4, 5 & 6)
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.88	1002.526	(NULL)
13.18	1028.951	(NULL)
21.81	90.778	(NULL)
23.80	77.810	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.80	324.60
12.00	DISCHG	758.07	877.05	901.79	949.54	997.86	993.65	1028.46	975.77	833.16	729.69
14.00	DISCHG	635.37	570.17	527.66	449.18	399.91	335.16	279.84	243.34	218.25	199.85
16.00	DISCHG	185.16	173.21	163.62	156.23	151.12	148.22	146.34	143.91	140.43	136.15
18.00	DISCHG	131.40	126.51	121.46	116.48	112.52	110.11	108.93	108.44	108.12	106.92
20.00	DISCHG	104.21	100.91	98.29	96.59	94.61	91.53	88.61	87.94	89.58	90.78
22.00	DISCHG	89.79	87.45	85.27	83.75	81.81	78.68	75.72	75.07	76.64	77.81
24.00	DISCHG	76.71	71.41	58.44	39.99	22.95	11.55	5.40	2.41	1.03	.43
26.00	DISCHG	.16	.05	.01	.00						

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 3694.58 ACRE-FT= 305.32

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209 (Subarea 9B)
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	33.265	(RUNOFF)
16.91	1.492	(RUNOFF)
19.32	1.105	(RUNOFF)
20.30	.974	(RUNOFF)
21.48	.970	(RUNOFF)
22.30	.845	(RUNOFF)
23.47	.838	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.03	.09	.18	.29	.48	.64	1.03	1.49	4.24	20.27
12.00	DISCHG	33.21	23.45	11.27	8.51	5.51	4.73	4.02	3.52	3.34	2.85
14.00	DISCHG	2.72	2.52	2.37	2.32	2.15	2.11	1.98	1.88	1.83	1.65
16.00	DISCHG	1.61	1.54	1.49	1.48	1.48	1.48	1.42	1.37	1.34	1.26
18.00	DISCHG	1.23	1.16	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.00
20.00	DISCHG	.98	.97	.97	.95	.87	.84	.91	.96	.96	.87
22.00	DISCHG	.85	.84	.84	.82	.73	.71	.78	.83	.82	.74
24.00	DISCHG	.71	.36	.07	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5106 CFS-HRS= 39.00 ACRE-FT= 3.22

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	33.265	(NULL)
16.91	1.492	(NULL)
19.32	1.105	(NULL)
20.30	.974	(NULL)
21.48	.970	(NULL)
22.30	.845	(NULL)
23.47	.838	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.03	.09	.18	.29	.48	.64	1.03	1.49	4.24	20.27
12.00	DISCHG	33.21	23.45	11.27	8.51	5.51	4.73	4.02	3.52	3.34	2.85
14.00	DISCHG	2.72	2.52	2.37	2.32	2.15	2.11	1.98	1.88	1.83	1.65
16.00	DISCHG	1.61	1.54	1.49	1.49	1.48	1.48	1.42	1.37	1.34	1.26
18.00	DISCHG	1.23	1.16	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.00
20.00	DISCHG	.98	.97	.97	.95	.87	.84	.91	.96	.96	.87
22.00	DISCHG	.85	.84	.84	.82	.73	.71	.78	.83	.82	.74
24.00	DISCHG	.71	.36	.07	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.95	16.168	(NULL)
22.13	.924	(NULL)
24.13	.792	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.01	.03	.07	.14	.23	.36	.55
12.00	DISCHG	.97	2.77	7.13	12.42	15.65	16.11	14.75	12.57	10.33	8.36
14.00	DISCHG	6.78	5.58	4.66	3.98	3.48	3.10	2.82	2.60	2.43	2.28
16.00	DISCHG	2.16	2.04	1.93	1.83	1.74	1.67	1.60	1.56	1.53	1.50
18.00	DISCHG	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.16	1.14	1.12
20.00	DISCHG	1.11	1.10	1.08	1.05	1.03	1.01	.99	.96	.93	.92
22.00	DISCHG	.92	.92	.91	.90	.88	.87	.85	.82	.80	.79
24.00	DISCHG	.79	.79	.78	.74	.65	.51	.37	.26	.17	.11
26.00	DISCHG	.07	.04	.02	.01	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5079 CFS-HRS= 38.92 ACRE-FT= 3.22

SUBROUTINE RUNOFF CROSS SECTION 208 Subarea 8B
AREA= .08 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	130.887	(RUNOFF)
21.79	6.480	(RUNOFF)
23.76	5.552	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.11	.31	.67	1.22	1.98	3.05	4.56	9.47	26.57
12.00	DISCHG	62.76	106.44	129.74	123.02	101.53	78.44	61.18	48.82	39.71	33.20
14.00	DISCHG	28.31	24.81	22.13	20.06	18.41	17.09	16.10	15.26	14.48	13.75
16.00	DISCHG	13.02	12.36	11.77	11.28	10.93	10.70	10.53	10.33	10.08	9.78
18.00	DISCHG	9.45	9.12	8.77	8.43	8.16	7.97	7.86	7.80	7.75	7.64
20.00	DISCHG	7.46	7.25	7.08	6.95	6.80	6.58	6.40	6.35	6.42	6.48
22.00	DISCHG	6.41	6.25	6.11	6.01	5.88	5.66	5.48	5.43	5.50	5.55
24.00	DISCHG	5.44	5.05	4.22	3.07	2.00	1.21	.73	.43	.26	.16
26.00	DISCHG	.09	.05	.03	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5115 CFS-HRS= 273.13 ACRE-FT= 22.57

USE FOR INLET DESIGN - (100-YR Freq)

SUBROUTINE ADDHYD CROSS SECTION 208 (Subareas 9B + 8B or DISC @ RWCD above Inner Diversion or Canal)
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	139.827	(NULL)
21.78	7.400	(NULL)
23.75	6.341	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.11	.31	.68	1.25	2.06	3.19	4.79	9.83	27.12
12.00	DISCHG	63.73	109.21	136.87	135.44	117.18	94.55	75.93	61.39	50.04	41.56
14.00	DISCHG	35.10	30.38	26.79	24.04	21.89	20.19	18.92	17.86	16.91	16.03
16.00	DISCHG	15.18	14.40	13.70	13.11	12.68	12.37	12.13	11.89	11.60	11.27
18.00	DISCHG	10.91	10.54	10.14	9.76	9.44	9.21	9.05	8.96	8.89	8.77
20.00	DISCHG	8.58	8.35	8.15	8.00	7.83	7.59	7.38	7.30	7.35	7.40
22.00	DISCHG	7.33	7.18	7.03	6.91	6.76	6.53	6.33	6.25	6.30	6.34
24.00	DISCHG	6.23	5.84	5.00	3.82	2.65	1.72	1.10	.69	.43	.26
26.00	DISCHG	.16	.09	.05	.03	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5110 CFS-HRS= 312.05 ACRE-FT= 25.79

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 211 (Subareas 1, 2, 3 + 4)
LENGTH= 5480.00 INPUT COEFFICIENT= .2000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.74	2160.745	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
8.00	DISCHG	.21	.61	1.21	1.93	2.83	4.17	6.32	9.56	13.76	18.97
10.00	DISCHG	25.16	32.62	42.14	53.44	67.94	86.26	110.10	144.33	216.73	525.18
12.00	DISCHG	1169.18	1788.41	2042.69	2119.70	2154.39	2030.46	1752.70	1422.97	1127.41	898.00
14.00	DISCHG	728.59	608.11	521.46	457.92	410.55	373.81	345.13	321.64	302.46	285.84
16.00	DISCHG	270.17	256.26	243.70	232.54	223.58	216.65	210.86	205.27	200.21	195.13
18.00	DISCHG	189.43	183.46	176.87	170.33	164.80	160.20	156.47	153.72	151.74	149.35
20.00	DISCHG	146.17	143.19	140.57	137.88	134.33	130.09	126.99	125.96	125.68	124.47
22.00	DISCHG	122.58	121.16	120.00	118.37	115.47	111.59	108.70	107.80	107.57	106.37
24.00	DISCHG	104.43	99.63	87.77	72.38	57.88	43.82	30.53	19.64	11.98	7.13
26.00	DISCHG	4.19	2.44	1.41	.79	.43	.22	.09	.00		

SUBROUTINE ADDHYD CROSS SECTION 211 Total Flow @ X Sect 211 From Subareas 1, 2, 3, 4, 9B + 8B)
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.72	2284.642	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
8.00	DISCHG	.21	.61	1.21	1.93	2.83	4.17	6.32	9.56	13.76	18.97
10.00	DISCHG	25.19	32.73	42.45	54.12	69.19	88.32	113.29	149.11	226.56	552.30
12.00	DISCHG	1232.90	1897.62	2179.55	2255.14	2271.57	2125.01	1828.63	1484.36	1177.45	939.56
14.00	DISCHG	763.69	638.49	548.25	481.96	432.44	394.00	364.05	339.50	319.37	301.87
16.00	DISCHG	285.34	270.67	257.40	245.66	236.26	229.02	223.00	217.16	211.81	206.40
18.00	DISCHG	200.34	194.00	187.01	180.09	174.24	169.40	165.52	162.68	160.63	158.12
20.00	DISCHG	154.75	151.54	148.73	145.88	142.16	137.68	134.37	133.27	133.03	131.86
22.00	DISCHG	129.90	128.33	127.03	125.28	122.24	118.13	115.03	114.05	113.87	112.70
24.00	DISCHG	110.66	105.46	92.77	76.20	60.52	45.55	31.63	20.33	12.41	7.40
26.00	DISCHG	4.35	2.53	1.46	.82	.44	.22	.09	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8341 CFS-HRS= 6143.41 ACRE-FT= 507.69

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.02	2239.546	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.02	.12	.37	.86	1.49	2.29	3.39	5.09	7.69	11.27
10.00	DISCHG	15.83	21.40	28.14	36.61	47.02	60.13	76.82	98.35	128.09	184.04
12.00	DISCHG	385.35	863.62	1483.28	1937.15	2156.66	2238.61	2186.80	1986.73	1690.34	1377.82
14.00	DISCHG	1105.29	890.68	731.19	615.35	530.99	468.79	421.78	385.55	356.80	333.48
16.00	DISCHG	313.89	296.36	280.54	266.30	253.58	242.80	234.17	227.21	221.04	215.38
18.00	DISCHG	209.91	204.15	198.02	191.40	184.54	178.19	172.74	168.24	164.74	162.14
20.00	DISCHG	159.71	156.77	153.60	150.61	147.73	144.42	140.41	136.66	134.39	133.43
22.00	DISCHG	132.53	131.01	129.37	127.92	126.35	123.97	120.54	117.14	115.07	114.22
24.00	DISCHG	113.35	111.81	108.25	99.57	85.90	70.55	55.31	40.82	28.12	18.21
26.00	DISCHG	11.30	6.81	4.04	2.36	1.36	.76	.41	.20	.07	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8340 CFS-HRS= 6143.08 ACRE-FT= 507.66

SUBROUTINE ADDHYD CROSS SECTION 712 (Total RWCD @ RR From all Subareas)
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.02	2239.546	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.02	.12	.39	.86	1.49	2.29	3.39	5.09	7.69	11.27
10.00	DISCHG	15.83	21.40	28.14	36.61	47.02	60.13	76.82	98.35	128.09	184.04
12.00	DISCHG	385.35	863.62	1483.28	1937.15	2156.66	2238.61	2186.80	2013.51	1789.14	1560.65
14.00	DISCHG	1344.23	1138.56	942.00	758.34	598.14	489.24	426.50	386.64	357.05	333.53
16.00	DISCHG	313.90	296.36	280.54	266.30	253.58	242.80	234.17	227.21	221.04	215.38
18.00	DISCHG	209.91	204.15	198.02	191.40	184.54	178.19	172.74	168.24	164.74	162.14
20.00	DISCHG	159.71	156.77	153.60	150.61	147.73	144.42	140.41	136.66	134.39	133.43
22.00	DISCHG	132.53	131.01	129.37	127.92	126.35	123.97	120.54	117.14	115.07	114.22
24.00	DISCHG	113.35	111.81	108.25	99.57	85.90	70.55	55.31	40.82	28.12	18.21
26.00	DISCHG	11.30	6.81	4.04	2.36	1.36	.76	.41	.20	.07	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0800 CFS-HRS= 6391.72 ACRE-FT= 528.21

ENDCMP

25-YEAR FREQ

PASS= 2

EXECUTIVE CONTROL CARD 62 OPERATION COMPUT. FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 2.80 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 2

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	1203.543	(RUNOFF)
21.76	57.343	(RUNOFF)
23.75	49.226	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
10.00	DISCHG	.45	1.63	4.09	7.83	13.10	20.64	30.95	45.57	91.34	261.56
12.00	DISCHG	619.13	1030.67	1201.30	1099.94	877.55	666.93	518.71	408.43	333.20	280.54
14.00	DISCHG	241.00	211.50	189.76	172.59	158.98	148.69	140.79	133.50	126.88	120.46
16.00	DISCHG	114.11	108.28	103.24	99.14	96.16	94.33	92.93	91.12	88.81	86.12
18.00	DISCHG	83.19	80.21	77.07	74.08	71.70	70.18	69.37	68.91	68.52	67.51
20.00	DISCHG	65.77	63.83	62.34	61.29	59.97	57.96	56.32	56.07	56.94	57.33
22.00	DISCHG	56.52	55.12	53.92	53.02	51.77	49.79	48.15	47.91	48.79	49.18
24.00	DISCHG	48.05	44.34	36.27	25.52	15.85	9.10	5.44	3.19	1.83	1.07
26.00	DISCHG	.61	.33	.17	.07	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1603 CFS-HRS= 2433.62 ACRE-FT= 201.11

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	151.386	(RUNOFF)
16.91	8.215	(RUNOFF)
19.33	6.137	(RUNOFF)
20.30	5.427	(RUNOFF)
21.50	5.411	(RUNOFF)
23.50	4.702	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.84	2.48	11.04	73.77

12.00	DISCHG	147.96	125.26	62.93	46.85	30.94	25.64	22.13	19.13	18.17	15.65
14.00	DISCHG	14.81	13.85	12.95	12.64	11.81	11.54	10.92	10.31	10.03	9.18
16.00	DISCHG	8.87	8.52	8.21	8.16	8.17	8.19	7.90	7.59	7.44	6.99
18.00	DISCHG	6.84	6.50	6.17	6.10	6.10	6.11	6.12	6.13	6.06	5.61
20.00	DISCHG	5.44	5.42	5.42	5.34	4.88	4.72	5.01	5.36	5.35	4.92
22.00	DISCHG	4.75	4.72	4.72	4.63	4.16	4.00	4.29	4.64	4.64	4.19
24.00	DISCHG	3.99	2.31	.52	.11	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8828 CFS-HRS= 193.70 ACRE-FT= 16.01

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	1193.662	(NULL)
21.80	61.911	(NULL)
23.77	53.040	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10.00	DISCHG	.19	.81	2.34	5.09	9.20	15.12	24.14	37.24	70.36	217.37
12.00	DISCHG	512.25	846.02	1107.26	1192.49	1063.14	854.55	662.24	518.01	414.14	340.05
14.00	DISCHG	288.28	249.54	220.58	199.17	181.81	168.62	158.15	149.57	142.13	134.64
16.00	DISCHG	127.91	121.38	115.44	110.59	106.77	104.08	101.98	100.07	97.99	95.15
18.00	DISCHG	92.26	89.01	85.65	82.51	79.71	77.57	76.21	75.45	74.90	73.83
20.00	DISCHG	72.47	70.71	68.96	67.50	65.85	64.15	62.63	61.77	61.76	61.91
22.00	DISCHG	61.76	60.84	59.58	58.38	56.87	55.24	53.74	52.90	52.90	53.03
24.00	DISCHG	52.75	49.23	42.53	33.60	23.43	14.65	8.65	5.14	3.01	1.74
26.00	DISCHG	1.01	.57	.31	.16	.07	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1338 CFS-HRS= 2626.97 ACRE-FT= 217.09

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	374.126	(RUNOFF)
16.91	17.121	(RUNOFF)
19.32	12.698	(RUNOFF)
20.31	11.197	(RUNOFF)
21.48	11.153	(RUNOFF)
22.30	9.720	(RUNOFF)
23.47	9.641	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.01	.35	1.22	2.35	4.33	6.14	10.35	15.33	45.32	223.57
12.00	DISCHG	373.26	265.57	128.06	97.03	62.94	54.04	45.98	40.20	38.16	32.65
14.00	DISCHG	31.18	28.90	27.15	26.53	24.65	24.18	22.70	21.51	20.95	18.98
16.00	DISCHG	18.47	17.68	17.07	16.99	17.01	17.04	16.32	15.72	15.40	14.42
18.00	DISCHG	14.16	13.36	12.72	12.62	12.62	12.64	12.66	12.68	12.47	11.48
20.00	DISCHG	11.21	11.17	11.17	10.97	9.95	9.69	10.42	11.09	11.02	10.01
22.00	DISCHG	9.74	9.69	9.69	9.48	8.45	8.17	8.92	9.59	9.49	8.49
24.00	DISCHG	8.20	4.12	.76	.13	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1008 CFS-HRS= 440.45 ACRE-FT= 36.40

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.64	1246.458	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.12	.88	2.85	6.16	11.61	18.49	30.27	46.44	100.46	374.19
12.00	DISCHG	749.24	953.36	1108.10	1243.06	1180.89	1005.49	800.60	628.78	503.39	409.19
14.00	DISCHG	345.01	297.44	261.93	236.21	214.91	199.25	185.96	175.25	166.68	157.21
16.00	DISCHG	149.63	142.19	135.37	129.94	125.64	122.45	119.33	116.71	114.38	110.90
18.00	DISCHG	107.80	103.91	99.98	96.64	93.68	91.25	89.54	88.51	87.64	85.81
20.00	DISCHG	84.32	82.71	80.97	79.18	76.59	74.65	73.79	73.30	72.82	71.85
22.00	DISCHG	71.56	70.95	69.86	68.44	66.03	64.19	63.38	62.91	62.41	61.47
24.00	DISCHG	61.08	54.93	46.39	37.93	28.26	18.89	11.62	6.91	4.08	2.38
26.00	DISCHG	1.38	.79	.44	.23	.11	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1288 CFS-HRS= 3067.06 ACRE-FT= 253.46

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	399.431	(RUNOFF)
19.32	14.661	(RUNOFF)
21.56	12.686	(RUNOFF)
23.86	10.925	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.07	.40	.95	1.66
10.00	DISCHG	2.46	3.49	4.90	6.39	8.83	11.47	15.61	22.27	44.37	182.85
12.00	DISCHG	366.02	387.38	237.65	153.68	105.45	76.86	63.15	52.47	47.59	42.14
14.00	DISCHG	38.23	35.84	33.18	31.91	30.09	28.80	27.63	25.96	24.99	23.37
16.00	DISCHG	22.07	21.25	20.33	19.93	19.82	19.80	19.43	18.65	18.18	17.34
18.00	DISCHG	16.68	16.06	15.19	14.72	14.67	14.64	14.64	14.65	14.56	13.85
20.00	DISCHG	13.21	13.00	12.93	12.81	12.08	11.45	11.63	12.39	12.67	12.06
22.00	DISCHG	11.47	11.26	11.20	11.06	10.32	9.68	9.87	10.63	10.91	10.30
24.00	DISCHG	9.65	7.37	3.13	1.04	.34	.11	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2891 CFS-HRS= 549.08 ACRE-FT= 45.38

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.72	1322.746	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.07	.40	.95	1.67
10.00	DISCHG	2.51	3.88	6.46	10.32	16.76	25.20	37.92	57.60	109.64	381.43
12.00	DISCHG	858.69	1180.95	1228.96	1297.71	1312.82	1195.37	1006.04	806.53	645.08	522.03
14.00	DISCHG	432.24	369.17	321.81	287.44	260.75	239.82	223.38	209.13	198.02	187.30
16.00	DISCHG	177.28	168.79	160.64	153.88	148.65	144.64	141.01	137.28	134.26	130.63
18.00	DISCHG	126.72	122.69	117.97	113.87	110.50	107.68	105.48	103.97	102.85	100.88
20.00	DISCHG	98.62	96.85	95.14	93.27	90.44	87.53	86.13	86.08	85.84	84.56
22.00	DISCHG	83.29	82.63	81.79	80.48	77.98	75.22	73.92	73.92	73.68	72.40
24.00	DISCHG	71.05	66.19	55.35	44.99	35.41	25.72	17.04	10.53	6.30	3.72
26.00	DISCHG	2.17	1.26	.72	.40	.21	.08	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1503 CFS-HRS= 3615.30 ACRE-FT= 298.77

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.97	539.425	(RUNOFF)
16.90	20.571	(RUNOFF)
19.31	15.170	(RUNOFF)
20.31	13.356	(RUNOFF)
21.40	13.320	(RUNOFF)
22.30	11.767	(RUNOFF)

23.40 11.507 (RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.27	.89	1.60	2.50
10.00	DISCHG	3.30	5.00	6.42	8.39	11.93	14.07	22.96	28.93	107.06	387.32
12.00	DISCHG	532.89	235.25	129.89	105.92	68.03	64.23	51.52	47.75	44.80	38.09
14.00	DISCHG	37.45	33.62	32.46	31.49	29.23	29.03	26.45	25.64	24.65	22.30
16.00	DISCHG	22.07	20.76	20.35	20.35	20.38	20.42	19.09	18.68	18.16	16.97
18.00	DISCHG	16.86	15.48	15.06	15.04	15.06	15.08	15.10	15.11	14.62	13.41
20.00	DISCHG	13.28	13.29	13.30	12.80	11.57	11.46	12.84	13.32	12.87	11.63
22.00	DISCHG	11.50	11.50	11.51	11.00	9.75	9.63	11.03	11.51	11.04	9.79
24.00	DISCHG	9.66	2.50	.22	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2689 CFS-HRS= 556.88 ACRE-FT= 46.02

SUBROUTINE REACH CROSS SECTION 108
LENGTH= 5000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.43

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.17	204.224	(RUNOFF)
19.35	9.370	(RUNOFF)
21.57	8.169	(RUNOFF)
23.57	7.071	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.71	2.58	10.48	67.25
12.00	DISCHG	168.09	202.78	133.46	89.47	62.57	46.29	38.38	32.09	29.11	25.92
14.00	DISCHG	23.55	22.13	20.56	19.73	18.71	17.93	17.25	16.26	15.67	14.68
16.00	DISCHG	13.87	13.37	12.82	12.57	12.51	12.51	12.30	11.83	11.54	11.03
18.00	DISCHG	10.61	10.24	9.70	9.43	9.36	9.34	9.35	9.37	9.32	8.88
20.00	DISCHG	8.48	8.34	8.30	8.23	7.78	7.37	7.48	7.96	8.16	7.79
22.00	DISCHG	7.41	7.28	7.23	7.16	6.70	6.28	6.38	6.87	7.06	6.69
24.00	DISCHG	6.28	4.85	2.12	.72	.25	.08	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8837 CFS-HRS= 296.57 ACRE-FT= 24.51

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

12.26	560.172	(NULL)
19.33	24.461	(NULL)
21.67	20.893	(NULL)
23.67	17.977	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.09	.39	.91
10.00	DISCHG	1.61	2.40	3.48	4.84	6.42	8.78	12.03	18.41	32.43	118.36
12.00	DISCHG	341.47	548.41	497.24	348.48	236.53	165.92	125.27	100.64	86.03	76.20
14.00	DISCHG	68.29	62.68	57.95	54.49	51.74	49.29	47.27	44.84	42.72	40.55
16.00	DISCHG	38.25	36.44	34.85	33.70	33.16	32.98	32.72	31.83	30.87	29.80
18.00	DISCHG	28.64	27.60	26.31	25.24	24.70	24.50	24.45	24.46	24.42	23.84
20.00	DISCHG	22.85	22.11	21.77	21.59	20.94	19.93	19.42	20.04	20.83	20.71
22.00	DISCHG	19.92	19.23	18.91	18.72	18.06	17.03	16.51	17.13	17.92	17.79
24.00	DISCHG	16.96	14.97	9.67	4.59	1.83	.67	.23	.08	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1080 CFS-HRS= 858.07 ACRE-FT= 70.91

SUBROUTINE DIVERT CROSS SECTION 108
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.52	481.126	(NULL)
21.91	20.647	(NULL)
23.90	17.747	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.35
10.00	DISCHG	.80	1.44	2.20	3.22	4.49	6.05	8.25	11.47	17.62	36.22
12.00	DISCHG	114.59	291.01	463.17	472.07	376.04	273.10	195.35	144.70	112.94	93.46
14.00	DISCHG	80.80	71.64	65.01	59.81	55.88	52.79	50.19	47.94	45.60	43.41
16.00	DISCHG	41.22	39.00	37.08	35.43	34.19	33.46	33.10	32.75	32.02	31.13
18.00	DISCHG	30.10	28.99	27.91	26.70	25.64	24.98	24.64	24.51	24.47	24.38
20.00	DISCHG	23.91	23.11	22.39	21.94	21.64	21.06	20.23	19.73	20.02	20.57
22.00	DISCHG	20.59	20.06	19.46	19.06	18.76	18.18	17.34	16.83	17.11	17.65
24.00	DISCHG	17.67	16.98	15.08	10.86	6.27	3.10	1.38	.58	.23	.09
26.00	DISCHG	.03	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1062 CFS-HRS= 856.68 ACRE-FT= 70.80

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	563.508	(RUNOFF)
21.63	20.316	(RUNOFF)
23.63	17.452	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.16	.69
10.00	DISCHG	1.61	2.89	4.64	6.76	9.72	13.48	18.69	26.90	52.77	187.34
12.00	DISCHG	428.61	563.05	457.74	309.84	217.73	156.36	121.38	98.78	84.27	73.88
14.00	DISCHG	65.84	60.67	56.18	52.97	50.28	47.83	45.85	43.42	41.42	39.21
16.00	DISCHG	36.90	35.29	33.78	32.75	32.33	32.18	31.81	30.80	29.90	28.81
18.00	DISCHG	27.64	26.66	25.37	24.42	24.00	23.84	23.79	23.78	23.70	22.97
20.00	DISCHG	21.96	21.37	21.13	20.93	20.15	19.12	18.88	19.65	20.31	19.94
22.00	DISCHG	19.07	18.53	18.31	18.10	17.32	16.29	16.05	16.80	17.44	17.07
24.00	DISCHG	16.11	13.60	8.31	3.82	1.67	.72	.31	.12	.04	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2220 CFS-HRS= 867.52 ACRE-FT= 71.69

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 6500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.33

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	266.599	(RUNOFF)
21.65	12.200	(RUNOFF)
23.65	10.513	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.04	.59	2.41	11.11	58.85
12.00	DISCHG	168.19	261.73	236.22	171.92	125.09	92.50	71.89	58.85	50.29	44.07
14.00	DISCHG	39.01	35.71	33.15	31.18	29.62	28.22	27.05	25.72	24.51	23.29
16.00	DISCHG	21.99	20.99	20.12	19.49	19.19	19.07	18.87	18.38	17.86	17.25
18.00	DISCHG	16.58	15.97	15.28	14.69	14.40	14.28	14.24	14.24	14.18	13.83
20.00	DISCHG	13.28	12.89	12.72	12.60	12.19	11.62	11.41	11.77	12.18	12.05
22.00	DISCHG	11.59	11.24	11.09	10.96	10.55	9.95	9.73	10.11	10.50	10.37

24.00	DISCHG	9.86	8.56	5.58	2.80	1.31	.61	.28	.12	.05	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8835 CFS-HRS= 450.46 ACRE-FT= 37.23

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	699.898	(NULL)
21.81	31.927	(NULL)
23.80	27.400	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.89

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
10.00	DISCHG	.39	1.05	2.08	3.53	5.37	7.87	11.63	17.77	32.89	96.94
12.00	DISCHG	282.35	546.54	691.69	655.54	518.50	380.02	278.25	211.38	168.86	141.00
14.00	DISCHG	121.56	107.97	98.17	90.81	85.15	80.55	76.68	73.07	69.58	66.17
16.00	DISCHG	62.72	59.48	56.66	54.38	52.77	51.84	51.24	50.42	49.24	47.76
18.00	DISCHG	46.11	44.40	42.65	40.92	39.53	38.68	38.27	38.10	37.99	37.58
20.00	DISCHG	36.64	35.48	34.56	33.97	33.29	32.21	31.18	30.94	31.51	31.93
22.00	DISCHG	31.59	30.78	30.02	29.49	28.82	27.72	26.67	26.46	26.99	27.40
24.00	DISCHG	27.01	25.19	20.61	14.22	8.27	4.22	2.00	.90	.39	.16
26.00	DISCHG	.05	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0800 CFS-HRS= 1317.30 ACRE-FT= 108.86

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	1185.417	(NULL)
21.85	52.535	(NULL)
23.84	45.087	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.43
10.00	DISCHG	1.20	2.49	4.28	6.74	9.86	13.92	19.88	29.25	50.51	133.16
12.00	DISCHG	396.95	837.55	1154.86	1127.60	894.54	653.13	473.59	356.07	281.80	234.45

14.00	DISCHG	202.36	179.61	163.18	150.62	141.03	133.34	126.87	121.01	115.18	109.58
16.00	DISCHG	103.94	98.48	93.74	89.81	86.95	85.30	84.34	83.18	81.26	78.89
18.00	DISCHG	76.21	73.40	70.56	67.62	65.17	63.66	62.91	62.61	62.46	61.96
20.00	DISCHG	60.55	58.58	56.95	55.92	54.93	53.27	51.41	50.68	51.54	52.49
22.00	DISCHG	52.18	50.84	49.48	48.55	47.58	45.90	44.01	43.28	44.10	45.06
24.00	DISCHG	44.68	42.17	35.68	25.07	14.54	7.32	3.38	1.48	.62	.24
26.00	DISCHG	.09	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0902 CFS-HRS= 2173.98 ACRE-FT= 179.66

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	732.400	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	298.50	645.29	729.38	568.71	334.50	135.75	27.29	1.71	.11
14.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2762 CFS-HRS= 550.81 ACRE-FT= 45.52

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.87	296.561	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1093 CFS-HRS= 218.06 ACRE-FT= 18.02

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.29	37.944	(RUNOFF)
16.94	5.283	(RUNOFF)

19.43	4.182	(RUNOFF)
21.60	3.720	(RUNOFF)
23.60	3.267	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83
12.00	DISCHG	13.99	36.00	33.49	26.55	21.24	16.73	14.39	12.42	11.25	10.23
14.00	DISCHG	9.37	8.85	8.30	7.99	7.66	7.38	7.15	6.80	6.56	6.22
16.00	DISCHG	5.90	5.70	5.49	5.38	5.36	5.38	5.32	5.16	5.04	4.86
18.00	DISCHG	4.68	4.53	4.31	4.19	4.16	4.15	4.17	4.18	4.17	4.02
20.00	DISCHG	3.85	3.78	3.76	3.73	3.57	3.38	3.40	3.60	3.72	3.60
22.00	DISCHG	3.43	3.36	3.34	3.31	3.13	2.94	2.96	3.15	3.27	3.14
24.00	DISCHG	2.96	2.41	1.21	.46	.18	.07	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3218 CFS-HRS= 89.30 ACRE-FT= 7.38

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.86	316.244	(NULL)
16.94	5.383	(NULL)
19.43	4.182	(NULL)
21.60	3.720	(NULL)
23.60	3.267	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83
12.00	DISCHG	13.99	36.00	50.08	203.03	309.92	284.70	169.99	94.25	54.28	32.85
14.00	DISCHG	21.26	15.10	11.59	9.72	8.57	7.85	7.40	6.93	6.63	6.26
16.00	DISCHG	5.92	5.71	5.49	5.38	5.36	5.38	5.32	5.16	5.04	4.86
18.00	DISCHG	4.68	4.53	4.31	4.19	4.16	4.15	4.17	4.18	4.17	4.02
20.00	DISCHG	3.85	3.78	3.76	3.73	3.57	3.38	3.40	3.60	3.72	3.60
22.00	DISCHG	3.43	3.36	3.34	3.31	3.13	2.94	2.96	3.15	3.27	3.14
24.00	DISCHG	2.96	2.41	1.21	.46	.18	.07	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1353 CFS-HRS= 307.36 ACRE-FT= 25.40

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.90	720.555	(NULL)
21.85	52.535	(NULL)
23.94	45.097	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.43
10.00	DISCHG	1.20	2.49	4.28	6.74	9.86	13.92	19.88	29.25	50.51	133.16
12.00	DISCHG	396.95	698.50	700.00	700.00	700.00	700.00	535.75	383.36	283.51	234.56
14.00	DISCHG	202.36	179.61	163.19	150.62	141.03	133.34	126.87	121.01	115.18	109.58
16.00	DISCHG	103.94	98.48	93.74	89.81	86.35	85.30	84.34	83.18	81.26	78.89
18.00	DISCHG	76.21	73.40	70.56	67.62	65.17	63.66	62.91	62.61	62.46	61.96
20.00	DISCHG	60.55	58.58	56.95	55.92	54.93	53.27	51.41	50.68	51.54	52.49
22.00	DISCHG	52.18	50.84	49.48	48.55	47.58	45.90	44.01	43.28	44.10	45.06
24.00	DISCHG	44.68	42.17	35.68	25.07	14.54	7.32	3.38	1.48	.62	.24
26.00	DISCHG	.09	.02	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1964.61 ACRE-FT= 162.36

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.36	116.482	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	.00	15.77	60.06	106.00	115.60	90.40	58.57
14.00	DISCHG	35.13	20.28	11.47	6.41	3.56	1.97	1.09	.60	.33	.18
16.00	DISCHG	.10	.05	.03	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0464 CFS-HRS= 105.52 ACRE-FT= 8.72

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	830.559	(NULL)
21.83	56.105	(NULL)
23.82	48.206	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.43
10.00	DISCHG	1.20	2.49	4.28	6.74	9.86	13.92	19.88	29.25	50.51	133.99
12.00	DISCHG	410.93	734.51	750.08	810.00	810.00	810.00	645.75	477.61	337.79	267.42
14.00	DISCHG	223.62	194.71	174.77	160.34	149.60	141.20	134.27	127.94	121.81	115.84
16.00	DISCHG	109.86	104.19	99.23	95.19	92.32	90.68	89.67	88.34	86.30	83.75
18.00	DISCHG	80.90	77.93	74.87	71.81	69.33	67.81	67.08	66.79	66.63	65.98
20.00	DISCHG	64.40	62.36	60.71	59.65	58.49	56.65	54.81	54.28	55.26	56.09
22.00	DISCHG	55.61	54.20	52.82	51.86	50.72	48.84	46.97	46.44	47.37	48.20
24.00	DISCHG	47.64	44.58	36.90	25.53	14.72	7.38	3.40	1.49	.62	.24
26.00	DISCHG	.09	.02	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 2165.92 ACRE-FT= 178.99

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

.00 DISCHG .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	30.241	(RUNOFF)
21.76	3.883	(RUNOFF)
23.74	3.397	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
12.00	DISCHG	6.00	18.10	28.01	30.22	27.09	22.78	19.20	16.45	14.41	12.86
14.00	DISCHG	11.69	10.63	9.84	9.22	8.74	8.35	8.03	7.70	7.38	7.06
16.00	DISCHG	6.73	6.44	6.18	5.99	5.86	5.80	5.76	5.67	5.55	5.40
18.00	DISCHG	5.22	5.05	4.96	4.69	4.57	4.51	4.48	4.48	4.47	4.41

20.00	DISCHG	4.29	4.17	4.09	4.04	3.96	3.82	3.73	3.75	3.84	3.88
22.00	DISCHG	3.80	3.70	3.63	3.59	3.50	3.36	3.25	3.27	3.37	3.39
24.00	DISCHG	3.30	3.00	2.33	1.51	.86	.46	.26	.14	.08	.04
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3211 CFS-HRS= 95.32 ACRE-FT= 7.88

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	30.241	(NULL)
21.76	3.883	(NULL)
23.74	3.397	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
12.00	DISCHG	6.00	18.10	28.01	30.22	27.09	22.78	19.20	16.45	14.41	12.86
14.00	DISCHG	11.60	10.63	9.84	9.22	8.74	8.35	8.03	7.70	7.38	7.06
16.00	DISCHG	6.73	6.44	6.18	5.99	5.86	5.80	5.76	5.67	5.55	5.40
18.00	DISCHG	5.22	5.05	4.86	4.69	4.57	4.51	4.48	4.48	4.47	4.41
20.00	DISCHG	4.29	4.17	4.09	4.04	3.96	3.82	3.73	3.75	3.84	3.88
22.00	DISCHG	3.80	3.70	3.63	3.59	3.50	3.36	3.25	3.27	3.37	3.39
24.00	DISCHG	3.30	3.00	2.33	1.51	.86	.46	.26	.14	.08	.04
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0371 CFS-HRS= 95.32 ACRE-FT= 7.88

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.95	874.300	(NULL)
21.83	56.105	(NULL)
23.82	48.206	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.43
10.00	DISCHG	1.20	2.49	4.28	6.74	9.86	13.92	19.88	29.25	50.51	133.99
12.00	DISCHG	410.93	734.51	750.08	810.00	825.77	870.06	751.75	593.21	428.19	325.98
14.00	DISCHG	258.75	214.99	186.24	166.76	153.16	143.17	135.36	128.54	122.14	116.02
16.00	DISCHG	109.96	104.24	99.26	95.21	92.33	90.68	89.67	88.34	86.30	83.75
18.00	DISCHG	80.90	77.93	74.87	71.81	69.33	67.81	67.08	66.79	66.63	65.98
20.00	DISCHG	64.40	62.36	60.71	59.65	58.49	56.65	54.81	54.28	55.26	56.09
22.00	DISCHG	55.51	54.20	52.82	51.86	50.72	48.84	46.97	46.44	47.37	48.20
24.00	DISCHG	47.64	44.58	36.90	25.53	14.72	7.38	3.40	1.49	.62	.24

```
 26.00    DISCHG          .03        .02        .00

    TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     2271.44        ACRE-FT=     187.71


SUBROUTINE SAVMOV    CROSS SECTION 611
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 2


SUBROUTINE DIVERT    CROSS SECTION 610
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPHS= 4,6


SUBROUTINE REACH     CROSS SECTION 710
           LENGTH=    700.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=   3.98
    .00    DISCHG          .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=        .00


SUBROUTINE ADDHYD    CROSS SECTION 711
           INPUT HYDROGRAPHS= 2,4     OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.95                         898.045                       (NULL)
              21.82                          59.983                       (NULL)
              23.81                          51.595                       (NULL)

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=    .00
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .01        .09        .43
  10.00    DISCHG         1.20       2.49       4.28       6.74       9.86      13.92      19.88      29.25      50.51     134.39
  12.00    DISCHG       416.93     752.61     778.09     840.22     852.86     892.83     770.95     609.66     442.60     338.84
  14.00    DISCHG       270.35     225.62     196.09     175.98     161.90     151.52     143.39     136.24     129.52     123.08
  16.00    DISCHG       116.69     110.68     105.44     101.19      98.19      96.48      95.43      94.00      91.85      89.15
  18.00    DISCHG        86.12      82.98      79.73      76.50      73.90      72.32      71.56      71.27      71.10      70.39
  20.00    DISCHG        68.69      66.53      64.80      63.69      62.45      60.47      58.54      58.03      59.10      59.97
  22.00    DISCHG        59.41      57.90      56.45      55.45      54.22      52.20      50.22      49.71      50.74      51.59
  24.00    DISCHG        50.95      47.57      39.23      27.04      15.57       7.84       3.66       1.63        .70        .29
  26.00    DISCHG          .11        .02        .00

    TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     2366.76        ACRE-FT=     195.59


SUBROUTINE SAVMOV    CROSS SECTION 711
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 2


SUBROUTINE SAVMOV    CROSS SECTION 710
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 4
```

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	18.664	(RUNOFF)
16.91	.967	(RUNOFF)
19.32	.723	(RUNOFF)
20.31	.639	(RUNOFF)
21.49	.639	(RUNOFF)
22.30	.556	(RUNOFF)
23.48	.553	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.11	.31	1.49	9.69
12.00	DISCHG	18.51	13.82	6.82	5.26	3.44	2.97	2.53	2.22	2.11	1.81
14.00	DISCHG	1.73	1.61	1.51	1.48	1.38	1.35	1.27	1.21	1.18	1.07
16.00	DISCHG	1.04	1.00	.96	.96	.96	.96	.92	.89	.87	.82
18.00	DISCHG	.80	.76	.72	.72	.72	.72	.72	.72	.71	.65
20.00	DISCHG	.64	.64	.64	.63	.57	.55	.60	.63	.63	.57
22.00	DISCHG	.56	.55	.55	.54	.48	.47	.51	.55	.54	.49
24.00	DISCHG	.47	.24	.04	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8807 CFS-HRS= 22.74 ACRE-FT= 1.88

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	18.664	(NULL)
16.91	.967	(NULL)
19.32	.723	(NULL)
20.31	.639	(NULL)
21.49	.639	(NULL)
22.30	.556	(NULL)
23.48	.553	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.11	.31	1.49	9.69
12.00	DISCHG	18.51	13.82	6.82	5.26	3.44	2.97	2.53	2.22	2.11	1.81
14.00	DISCHG	1.73	1.61	1.51	1.48	1.38	1.35	1.27	1.21	1.18	1.07
16.00	DISCHG	1.04	1.00	.96	.96	.96	.96	.92	.89	.87	.82
18.00	DISCHG	.80	.76	.72	.72	.72	.72	.72	.72	.71	.65
20.00	DISCHG	.64	.64	.64	.63	.57	.55	.60	.63	.63	.57
22.00	DISCHG	.56	.55	.55	.54	.48	.47	.51	.55	.54	.49

24.00	DISCHG	.47	.24	.04	.01	.00

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.99	8.898	(NULL)
22.14	.607	(NULL)
24.13	.522	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04
12.00	DISCHG	.18	1.01	3.32	6.36	8.40	8.90	8.33	7.23	6.03	4.96
14.00	DISCHG	4.08	3.40	2.87	2.48	2.18	1.95	1.79	1.65	1.55	1.46
16.00	DISCHG	1.38	1.31	1.24	1.18	1.12	1.07	1.04	1.01	.99	.97
18.00	DISCHG	.95	.92	.89	.87	.83	.80	.78	.76	.74	.73
20.00	DISCHG	.73	.72	.70	.69	.67	.66	.65	.63	.61	.60
22.00	DISCHG	.61	.61	.60	.59	.58	.57	.56	.54	.53	.52
24.00	DISCHG	.52	.52	.52	.49	.43	.34	.25	.17	.11	.07
26.00	DISCHG	.04	.03	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8803 CFS-HRS= 22.72 ACRE-FT= 1.88

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	72.085	(RUNOFF)
21.79	4.257	(RUNOFF)
23.76	3.662	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.39	2.29	10.53
12.00	DISCHG	29.86	55.21	70.65	69.13	58.43	45.96	36.41	29.44	24.23	20.47
14.00	DISCHG	17.61	15.54	13.94	12.70	11.71	10.91	10.30	9.78	9.29	8.84
16.00	DISCHG	8.38	7.96	7.59	7.29	7.07	6.93	6.82	6.70	6.54	6.35
18.00	DISCHG	6.14	5.93	5.71	5.49	5.32	5.20	5.13	5.09	5.06	5.00
20.00	DISCHG	4.88	4.74	4.63	4.55	4.46	4.32	4.20	4.17	4.22	4.26
22.00	DISCHG	4.21	4.11	4.02	3.95	3.87	3.73	3.61	3.58	3.63	3.66
24.00	DISCHG	3.59	3.33	2.78	2.03	1.32	.80	.48	.29	.17	.10
26.00	DISCHG	.06	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= [illegible] CFS-HRS= 159.43 ACRE-FT= 13.18

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	76.118	(NULL)
21.78	4.861	(NULL)
23.75	4.182	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.39	2.30	10.57
12.00	DISCHG	30.04	56.22	73.97	75.49	66.82	54.86	44.73	36.66	30.26	25.43
14.00	DISCHG	21.69	18.93	16.81	15.18	13.89	12.86	12.09	11.43	10.84	10.30
16.00	DISCHG	9.76	9.27	8.83	8.46	8.19	8.00	7.86	7.71	7.53	7.32
18.00	DISCHG	7.09	6.85	6.60	6.36	6.15	6.00	5.91	5.85	5.80	5.73
20.00	DISCHG	5.61	5.46	5.34	5.24	5.13	4.98	4.84	4.79	4.83	4.86
22.00	DISCHG	4.82	4.72	4.62	4.55	4.45	4.30	4.17	4.12	4.15	4.18
24.00	DISCHG	4.11	3.85	3.30	2.52	1.75	1.14	.73	.45	.28	.17
26.00	DISCHG	.11	.06	.03	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8820 CFS-HRS= 182.15 ACRE-FT= 15.05

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 5400.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.78	1306.077	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.04	.25	.70	1.34
10.00	DISCHG	2.13	3.26	5.30	8.57	13.84	21.36	32.15	48.68	86.14	259.01
12.00	DISCHG	642.56	1033.11	1205.28	1266.49	1305.59	1248.03	1091.84	897.37	718.90	578.36
14.00	DISCHG	473.37	398.09	343.50	303.19	272.97	249.40	230.90	215.64	203.11	192.19
16.00	DISCHG	181.85	172.67	164.36	156.97	151.04	146.48	142.67	138.98	135.64	132.28
18.00	DISCHG	128.50	124.52	120.12	115.74	112.04	108.97	106.48	104.66	103.36	101.77
20.00	DISCHG	99.65	97.66	95.92	94.12	91.72	88.86	86.78	86.11	85.95	85.14
22.00	DISCHG	83.87	82.93	82.17	81.09	79.12	76.48	74.52	73.93	73.79	72.98
24.00	DISCHG	71.67	69.38	60.25	49.71	39.78	30.13	21.00	13.51	8.24	4.91
26.00	DISCHG	[illegible]	1.60	.97	.55	.30	.14	.00			

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.76	1374.374	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.04	.25	.70	1.34
10.00	DISCHG	2.13	3.26	5.30	8.57	13.84	21.38	32.25	49.07	88.44	269.58
12.00	DISCHG	672.61	1089.33	1279.25	1341.98	1372.41	1302.88	1136.57	934.04	749.16	603.78
14.00	DISCHG	495.06	417.02	360.31	318.37	286.86	262.26	242.98	227.07	213.95	202.48
16.00	DISCHG	191.61	181.94	173.19	165.43	159.23	154.48	150.52	146.68	143.17	139.60
18.00	DISCHG	135.59	131.38	126.72	122.10	118.19	114.97	112.39	110.51	109.17	107.50
20.00	DISCHG	105.26	103.12	101.26	99.36	96.85	93.84	91.62	90.91	90.78	90.00
22.00	DISCHG	88.69	87.65	86.79	85.62	83.57	80.78	78.70	78.05	77.94	77.16
24.00	DISCHG	75.78	72.24	63.55	52.23	41.52	31.27	21.72	13.96	8.53	5.08
26.00	DISCHG	2.99	1.74	1.00	.56	.30	.14	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1333 CFS-HRS= 3796.05 ACRE-FT= 313.71

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.07	1344.825	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.02	.14	.46
10.00	DISCHG	.97	1.66	2.60	4.15	6.70	10.83	16.99	25.91	39.37	67.08
12.00	DISCHG	177.34	455.65	833.35	1121.93	1271.48	1339.84	1327.82	1222.78	1053.46	868.67
14.00	DISCHG	704.31	573.08	474.51	402.28	349.27	309.91	279.98	256.78	238.25	223.12
16.00	DISCHG	210.34	198.85	188.44	179.06	170.66	163.55	157.87	153.29	149.24	145.51
18.00	DISCHG	141.92	138.11	134.05	129.64	125.07	120.83	117.20	114.20	111.88	110.16
20.00	DISCHG	108.56	106.60	104.49	102.50	100.59	98.37	95.67	93.16	91.65	91.03
22.00	DISCHG	90.43	89.43	88.34	87.38	86.34	84.74	82.42	80.12	78.73	78.17
24.00	DISCHG	77.59	76.55	74.13	68.20	58.86	48.37	37.95	28.02	19.31	12.51
26.00	DISCHG	7.76	4.68	2.77	1.62	.93	.52	.27	.10	.03	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1333 CFS-HRS= 3795.85 ACRE-FT= 313.69

45

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

13.07 1344.825 (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.02	.14	.46
10.00	DISCHG	.97	1.66	2.60	4.15	6.70	10.83	16.99	25.91	39.37	67.08
12.00	DISCHG	177.34	455.65	833.35	1121.93	1271.48	1339.84	1327.82	1222.78	1053.46	868.67
14.00	DISCHG	704.31	573.08	474.51	402.28	349.27	309.91	279.98	256.78	238.25	223.12
16.00	DISCHG	210.34	198.85	188.44	179.06	170.66	163.55	157.87	153.29	149.24	145.51
18.00	DISCHG	141.92	138.11	134.05	129.64	125.07	120.83	117.20	114.20	111.88	110.16
20.00	DISCHG	108.56	106.60	104.49	102.50	100.59	98.37	95.67	93.16	91.65	91.03
22.00	DISCHG	90.43	89.43	88.34	87.38	86.34	84.74	82.42	80.12	78.73	78.17
24.00	DISCHG	77.59	76.55	74.13	68.20	58.86	48.37	37.95	28.02	19.31	12.51
26.00	DISCHG	7.76	4.68	2.77	1.62	.93	.52	.27	.10	.03	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6414 CFS-HRS= 3795.85 ACRE-FT= 313.69

ENDCMP.

10-YEAR FREQ

PASS= 3

EXECUTIVE CONTROL CARD 64 OPERATION COMPUT. FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 2.20 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 3

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.45	728.440	(RUNOFF)
21.77	40.082	(RUNOFF)
23.75	34.521	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.07	.75	3.08	8.18	30.08	123.31
12.00	DISCHG	335.23	597.36	723.47	679.44	552.68	425.73	335.21	266.93	219.89	186.62
14.00	DISCHG	161.40	142.44	128.38	117.25	108.34	101.54	96.29	91.43	87.01	82.70
16.00	DISCHG	78.42	74.49	71.09	68.33	66.33	65.12	64.20	63.00	61.45	59.62
18.00	DISCHG	57.63	55.60	53.45	51.41	49.79	48.76	48.22	47.93	47.67	47.00
20.00	DISCHG	45.80	44.47	43.46	42.74	41.84	40.45	39.32	39.16	39.79	40.07
22.00	DISCHG	39.52	38.56	37.73	37.12	36.25	34.88	33.74	33.58	34.21	34.49
24.00	DISCHG	33.71	31.11	25.45	17.91	11.12	6.39	3.82	2.24	1.29	.75
26.00	DISCHG	.43	.23	.12	.05	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7338 CFS-HRS= 1539.36 ACRE-FT= 127.21

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	82.521	(RUNOFF)
16.92	5.393	(RUNOFF)
19.34	4.068	(RUNOFF)
20.31	3.608	(RUNOFF)
21.50	3.608	(RUNOFF)
22.30	3.159	(RUNOFF)
23.50	3.149	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.44	28.80
12.00	DISCHG	78.24	72.33	37.71	28.89	19.33	16.16	14.02	12.17	11.60	10.02
14.00	DISCHG	9.51	8.91	8.35	8.17	7.65	7.48	7.10	6.71	6.54	5.99
16.00	DISCHG	5.79	5.57	5.37	5.34	5.36	5.38	5.19	4.99	4.90	4.61
18.00	DISCHG	4.51	4.29	4.07	4.03	4.03	4.04	4.05	4.07	4.02	3.72
20.00	DISCHG	3.62	3.60	3.60	3.55	3.25	3.14	3.34	3.57	3.57	3.28
22.00	DISCHG	3.17	3.15	3.15	3.10	2.79	2.67	2.87	3.11	3.11	2.81
24.00	DISCHG	2.68	1.55	.35	.07	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5125 CFS-HRS= 113.98 ACRE-FT= 9.42

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	722.250	(NULL)
21.82	43.111	(NULL)
23.78	37.056	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.02	.29	1.46	4.55	16.41	87.84
12.00	DISCHG	263.22	473.97	649.82	722.16	658.46	538.58	423.06	334.92	270.63	224.28
14.00	DISCHG	191.57	166.87	148.27	134.45	123.19	114.56	107.66	101.98	97.03	92.04
16.00	DISCHG	87.54	83.15	79.16	75.89	73.33	71.53	70.15	68.90	67.51	65.61
18.00	DISCHG	63.66	61.46	59.18	57.04	55.13	53.67	52.75	52.25	51.90	51.20
20.00	DISCHG	50.28	49.08	47.88	46.88	45.77	44.61	43.55	42.97	42.97	43.11
22.00	DISCHG	43.03	42.40	41.53	40.71	39.68	38.56	37.51	36.92	36.93	37.05
24.00	DISCHG	36.87	34.46	29.83	23.57	16.44	10.28	6.07	3.61	2.11	1.22
26.00	DISCHG	.71	.40	.22	.11	.05	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7135 CFS-HRS= 1653.18 ACRE-FT= 136.62

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	225.124	(RUNOFF)
16.91	11.724	(RUNOFF)
19.32	8.759	(RUNOFF)
20.31	7.742	(RUNOFF)
21.48	7.729	(RUNOFF)
22.30	6.746	(RUNOFF)
23.49	6.705	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.06	1.20	3.58	17.56	116.22
12.00	DISCHG	223.15	166.92	82.49	63.63	41.61	35.92	30.67	26.89	25.60	21.95
14.00	DISCHG	21.00	19.50	18.35	17.96	16.70	16.41	15.42	14.63	14.27	12.94
16.00	DISCHG	12.60	12.07	11.66	11.62	11.64	11.67	11.19	10.78	10.57	9.91
18.00	DISCHG	9.73	9.19	8.76	8.69	8.69	8.71	8.73	8.75	8.61	7.93
20.00	DISCHG	7.74	7.72	7.73	7.59	6.89	6.71	7.22	7.69	7.64	6.94
22.00	DISCHG	6.75	6.73	6.73	6.58	5.87	5.68	6.20	6.67	6.60	5.91
24.00	DISCHG	5.71	2.87	.53	.09	.01					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6864 CFS-HRS= 274.66 ACRE-FT= 22.70

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.66	754.228	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.01	.23	2.13	6.72	28.57	171.76
12.00	DISCHG	405.81	541.34	647.13	747.84	726.07	629.82	509.03	404.86	327.81	269.03
14.00	DISCHG	228.70	198.48	175.73	159.18	145.37	135.18	126.44	119.37	113.69	107.37
16.00	DISCHG	102.31	97.32	92.75	89.10	86.22	84.09	82.01	80.28	78.74	76.41
18.00	DISCHG	74.32	71.69	69.02	66.76	64.74	63.09	61.94	61.25	60.68	59.45
20.00	DISCHG	58.46	57.37	56.18	54.96	53.19	51.87	51.28	50.95	50.63	49.99
22.00	DISCHG	49.81	49.41	48.67	47.69	46.04	44.77	44.21	43.88	43.55	42.91
24.00	DISCHG	42.66	38.42	32.50	26.60	19.83	13.26	8.15	4.85	2.86	1.67
26.00	DISCHG	.97	.56	.31	.16	.08	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7095 CFS-HRS= 1927.80 ACRE-FT= 159.31

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	254.046	(RUNOFF)
19.34	10.388	(RUNOFF)
21.56	9.024	(RUNOFF)
23.56	7.793	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.18	.76	1.84	3.23	5.43	8.95	21.16	102.54
12.00	DISCHG	224.33	249.09	156.05	102.77	71.37	52.49	43.40	36.20	32.91	29.20
14.00	DISCHG	26.54	24.92	23.10	22.18	21.00	20.13	19.33	18.18	17.52	16.39
16.00	DISCHG	15.49	14.93	14.29	14.02	13.95	13.94	13.69	13.15	12.83	12.24
18.00	DISCHG	11.78	11.35	10.74	10.46	10.38	10.36	10.37	10.38	10.32	9.82
20.00	DISCHG	9.38	9.23	9.18	9.10	8.58	8.14	8.27	8.81	9.01	8.58
22.00	DISCHG	8.16	8.02	7.97	7.88	7.36	6.90	7.03	7.58	7.78	7.35
24.00	DISCHG	6.89	5.26	2.23	.74	.25	.08	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8361 CFS-HRS= 356.12 ACRE-FT= 29.43

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.76	803.760	(NULL)
23.32	51.746	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.18	.76	1.85	3.32	6.35	12.64	35.68	182.98
12.00	DISCHG	472.31	685.90	723.93	777.70	801.93	743.07	635.59	516.62	418.37	342.22
14.00	DISCHG	285.97	246.15	215.91	193.85	176.58	162.96	152.20	142.78	135.41	128.24
16.00	DISCHG	121.53	115.84	110.35	105.81	102.31	99.64	97.21	94.71	92.70	90.25
18.00	DISCHG	87.61	84.88	81.66	78.88	76.59	74.67	73.18	72.18	71.43	70.10
20.00	DISCHG	68.56	67.36	66.20	64.93	62.98	60.98	60.04	60.03	59.88	59.00
22.00	DISCHG	58.14	57.70	57.14	56.25	54.51	52.60	51.71	51.73	51.57	50.69
24.00	DISCHG	49.76	46.36	38.77	31.54	24.84	18.05	11.96	7.39	4.42	2.61
26.00	DISCHG	1.52	.88	.51	.28	.15	.06	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7266 CFS-HRS= 2283.82 ACRE-FT= 188.73

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.98	346.641	(RUNOFF)
16.91	14.485	(RUNOFF)
19.31	10.752	(RUNOFF)
20.31	9.485	(RUNOFF)
21.49	8.476	(RUNOFF)

22.31	8.240	(RUNOFF)
23.40	8.209	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.03	.58	1.58	3.23	4.70	8.99	12.70	54.67	229.72
12.00	DISCHG	344.43	156.66	88.02	72.38	46.68	44.23	35.57	33.04	31.05	26.45
14.00	DISCHG	26.05	23.42	22.63	21.98	20.43	20.31	18.52	17.97	17.29	15.65
16.00	DISCHG	15.51	14.59	14.32	14.32	14.36	14.39	13.46	13.18	12.82	11.99
18.00	DISCHG	11.92	10.95	10.66	10.64	10.66	10.68	10.70	10.72	10.37	9.51
20.00	DISCHG	9.43	9.43	9.45	9.10	8.22	8.15	9.13	9.48	9.16	8.28
22.00	DISCHG	8.19	8.19	8.20	7.84	6.95	6.87	7.87	8.21	7.88	6.99
24.00	DISCHG	6.90	1.78	.16	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8224 CFS-HRS= 360.89 ACRE-FT= 29.82

SUBROUTINE REACH CROSS SECTION 108
LENGTH= 5000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.43

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	112.354	(RUNOFF)
16.91	8.223	(RUNOFF)
19.37	6.208	(RUNOFF)
21.57	5.447	(RUNOFF)
23.57	4.735	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.38	23.62
12.00	DISCHG	82.50	112.30	77.30	53.62	38.35	28.81	24.17	20.34	18.54	16.56
14.00	DISCHG	15.09	14.22	13.24	12.74	12.10	11.62	11.20	10.57	10.20	9.57
16.00	DISCHG	9.05	8.74	8.39	8.23	8.20	8.21	8.08	7.78	7.59	7.27
18.00	DISCHG	7.00	6.75	6.40	6.23	6.19	6.18	6.19	6.21	6.18	5.89
20.00	DISCHG	5.63	5.54	5.52	5.48	5.18	4.91	4.98	5.30	5.44	5.20
22.00	DISCHG	4.95	4.86	4.83	4.79	4.48	4.20	4.27	4.60	4.73	4.48
24.00	DISCHG	4.21	3.25	1.42	.40	.17	.05	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5206 CFS-HRS= 174.72 ACRE-FT= 14.44

SUBROUTINE ADDHYD CROSS SECTION 108
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	337.291	(NULL)
19.39	16.896	(NULL)
21.68	14.501	(NULL)
23.68	12.519	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.01	.20	.74	1.76	3.10	5.43	10.10	48.13
12.00	DISCHG	180.58	324.32	309.02	222.33	153.82	109.36	83.27	67.31	57.73	51.30
14.00	DISCHG	46.08	42.36	39.23	36.93	35.13	33.50	32.17	30.56	29.14	27.70
16.00	DISCHG	26.15	24.93	23.86	23.09	22.73	22.62	22.47	21.87	21.23	20.51
18.00	DISCHG	19.72	19.02	18.14	17.41	17.04	16.91	16.88	16.90	16.88	16.49
20.00	DISCHG	15.82	15.31	15.08	14.96	14.52	13.83	13.47	13.89	14.45	14.39
22.00	DISCHG	13.84	13.37	13.14	13.02	12.57	11.86	11.49	11.92	12.47	12.40
24.00	DISCHG	11.83	10.47	6.81	3.24	1.29	.47	.17	.05	.02	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6960 CFS-HRS= 538.99 ACRE-FT= 44.54

SUBROUTINE DIVERT CROSS SECTION 108
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	290.282	(NULL)
21.92	14.333	(NULL)
23.91	12.360	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.20	.67	1.55	2.85	5.08	12.26
12.00	DISCHG	49.91	153.92	269.71	288.28	236.18	175.14	127.31	95.44	75.14	62.52
14.00	DISCHG	54.28	48.27	43.90	40.46	37.85	35.82	34.10	32.61	31.06	29.60
16.00	DISCHG	28.14	26.65	25.36	24.25	23.42	22.93	22.70	22.48	22.00	21.40
18.00	DISCHG	20.71	19.96	19.23	18.41	17.69	17.23	17.01	16.92	16.90	16.85
20.00	DISCHG	16.54	16.00	15.50	15.20	14.99	14.60	14.03	13.69	13.88	14.27
22.00	DISCHG	14.30	13.94	13.52	13.25	13.05	12.65	12.07	11.71	11.91	12.29
24.00	DISCHG	12.31	11.85	10.54	7.62	4.42	2.19	.98	.41	.16	.06
26.00	DISCHG	.02	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6950 CFS-HRS= 538.27 ACRE-FT= 44.48

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	349.623	(RUNOFF)
19.32	16.706	(RUNOFF)
21.63	14.328	(RUNOFF)
23.63	12.346	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.08	.66	2.03	4.49	8.55	22.18	98.65
12.00	DISCHG	250.46	348.27	291.29	200.96	143.44	104.24	81.70	66.98	57.47	50.58
14.00	DISCHG	45.18	41.71	38.69	36.53	34.73	33.08	31.74	30.09	28.74	27.23
16.00	DISCHG	25.65	24.55	23.52	22.82	22.54	22.45	22.20	21.51	20.90	20.15
18.00	DISCHG	19.34	18.67	17.78	17.11	16.83	16.73	16.70	16.70	16.65	16.15
20.00	DISCHG	15.44	15.03	14.87	14.73	14.19	13.47	13.31	13.85	14.32	14.06
22.00	DISCHG	13.46	13.08	12.93	12.79	12.24	11.52	11.35	11.88	12.34	12.08
24.00	DISCHG	11.40	9.63	5.88	2.70	1.18	.51	.22	.09	.03	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7829 CFS-HRS= 555.80 ACRE-FT= 45.93

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 6500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.33

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	143.153	(RUNOFF)
19.33	9.431	(RUNOFF)
21.65	8.133	(RUNOFF)
23.65	7.040	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.50	19.72
12.00	DISCHG	76.97	137.51	131.68	99.35	74.33	56.13	44.35	36.77	31.73	28.02
14.00	DISCHG	24.92	22.89	21.31	20.09	19.13	18.25	17.53	16.70	15.94	15.16
16.00	DISCHG	14.34	13.70	13.15	12.76	12.57	12.51	12.39	12.08	11.75	11.36
18.00	DISCHG	10.92	10.63	10.08	9.71	9.52	9.44	9.42	9.43	9.40	9.17

20.00	DISCHG	8.81	8.56	8.45	8.37	8.11	7.73	7.60	7.84	8.12	8.03
22.00	DISCHG	7.73	7.50	7.40	7.32	7.05	6.65	6.51	6.76	7.03	6.95
24.00	DISCHG	6.61	5.74	3.74	1.88	.88	.41	.19	.08	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5208 CFS-HRS= 265.53 ACRE-FT= 21.94

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	417.273	(NULL)
21.82	22.052	(NULL)
23.81	18.991	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.89

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.04	.35	1.24	3.01	7.56	34.22
12.00	DISCHG	134.22	298.73	405.77	400.39	324.74	242.45	180.10	138.36	111.50	93.73
14.00	DISCHG	81.21	72.35	65.93	61.10	57.38	54.36	51.82	49.45	47.15	44.89
16.00	DISCHG	42.60	40.44	38.55	37.03	35.95	35.34	34.96	34.44	33.66	32.68
18.00	DISCHG	31.57	30.42	29.24	28.07	27.13	26.55	26.28	26.17	26.11	25.85
20.00	DISCHG	25.23	24.43	23.81	23.41	22.96	22.23	21.52	21.35	21.74	22.05
22.00	DISCHG	21.84	21.29	20.77	20.40	19.95	19.21	18.48	18.32	18.69	18.99
24.00	DISCHG	18.74	17.50	14.38	9.96	5.81	2.96	1.40	.63	.27	.11
26.00	DISCHG	.04	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6730 CFS-HRS= 820.91 ACRE-FT= 67.84

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.52	700.338	(NULL)
21.86	36.356	(NULL)
23.85	31.308	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	104.13	452.65	675.49	688.68	560.92	417.59	307.41	233.80	186.64	156.26
14.00	DISCHG	135.49	120.62	109.82	101.56	95.23	90.18	85.92	82.06	78.21	74.49
16.00	DISCHG	70.74	67.09	63.92	61.28	59.37	58.27	57.66	56.92	55.66	54.08
18.00	DISCHG	52.28	50.38	48.47	46.48	44.81	43.78	43.28	43.10	43.01	42.70
20.00	DISCHG	41.76	40.43	39.31	38.61	37.95	36.83	35.56	35.04	35.63	36.32
22.00	DISCHG	36.14	35.23	34.29	33.65	33.00	31.86	30.55	30.03	30.60	31.28
24.00	DISCHG	31.05	29.35	24.92	17.58	10.22	5.15	2.38	1.04	.44	.17
26.00	DISCHG	.06	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6816 CFS-HRS= 1359.18 ACRE-FT= 112.32

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	279.983	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	35.92	203.62	279.97	200.97	65.65	8.61	.54	.03	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0787 CFS-HRS= 156.99 ACRE-FT= 12.97

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	8.330	(RUNOFF)
17.00	2.735	(RUNOFF)
19.50	2.209	(RUNOFF)
21.50	1.997	(RUNOFF)

23.60 1.779 (RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	1.00	5.95	8.04	8.31	7.62	6.53	5.96	5.34	4.99	4.62
14.00	DISCHG	4.30	4.11	3.90	3.79	3.67	3.56	3.48	3.33	3.23	3.08
16.00	DISCHG	2.93	2.85	2.76	2.71	2.72	2.73	2.72	2.64	2.59	2.50
18.00	DISCHG	2.42	2.35	2.24	2.18	2.17	2.17	2.19	2.20	2.20	2.12
20.00	DISCHG	2.04	2.00	2.00	1.99	1.90	1.81	1.82	1.93	2.00	1.94
22.00	DISCHG	1.85	1.81	1.80	1.79	1.70	1.60	1.61	1.71	1.78	1.71
24.00	DISCHG	1.62	1.31	.66	.25	.10	.04	.01	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1336 CFS-HRS= 37.06 ACRE-FT= 3.06

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	8.330	(NULL)
17.00	2.735	(NULL)
19.50	2.209	(NULL)
21.60	1.997	(NULL)
23.60	1.779	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	1.00	5.95	8.04	8.31	7.62	6.53	5.96	5.34	4.99	4.62
14.00	DISCHG	4.30	4.11	3.90	3.79	3.67	3.56	3.48	3.33	3.23	3.08
16.00	DISCHG	2.93	2.85	2.76	2.71	2.72	2.73	2.72	2.64	2.59	2.50
18.00	DISCHG	2.42	2.35	2.24	2.18	2.17	2.17	2.19	2.20	2.20	2.12
20.00	DISCHG	2.04	2.00	2.00	1.99	1.90	1.81	1.82	1.93	2.00	1.94
22.00	DISCHG	1.85	1.81	1.80	1.79	1.70	1.60	1.61	1.71	1.78	1.71
24.00	DISCHG	1.62	1.31	.66	.25	.10	.04	.01	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0163 CFS-HRS= 37.06 ACRE-FT= 3.06

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	679.998	(NULL)
21.86	36.356	(NULL)
23.85	31.308	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	184.13	435.92	603.62	679.97	600.97	465.65	316.01	234.34	186.67	156.26
14.00	DISCHG	135.49	120.62	109.82	101.56	95.23	90.18	85.92	82.06	78.21	74.49
16.00	DISCHG	70.74	67.09	63.92	61.28	59.37	58.27	57.66	56.92	55.66	54.08
18.00	DISCHG	52.28	50.38	48.47	46.48	44.81	43.78	43.28	43.10	43.01	42.70
20.00	DISCHG	41.76	40.43	39.31	38.61	37.95	36.83	35.56	35.04	35.63	36.32
22.00	DISCHG	36.14	35.23	34.29	33.65	33.00	31.86	30.55	30.03	30.60	31.28
24.00	DISCHG	31.05	29.35	24.92	17.58	10.22	5.15	2.38	1.04	.44	.17
26.00	DISCHG	.06	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1362.27 ACRE-FT= 112.58

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	688.306	(NULL)
21.84	38.272	(NULL)
23.83	33.005	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	185.13	441.87	611.66	688.28	608.59	472.18	321.97	239.68	191.66	160.88
14.00	DISCHG	139.79	124.73	113.73	105.35	98.90	93.74	89.39	85.39	81.44	77.57
16.00	DISCHG	73.68	69.94	66.67	63.99	62.08	61.00	60.38	59.56	58.25	56.58
18.00	DISCHG	54.70	52.73	50.71	48.66	46.98	45.96	45.47	45.30	45.21	44.83
20.00	DISCHG	43.80	42.43	41.31	40.60	39.85	38.64	37.37	36.97	37.63	38.25

22.00	DISCHG	37.99	37.04	36.03	35.44	34.70	33.45	32.16	31.75	32.37	32.99
24.00	DISCHG	32.67	30.66	25.58	17.83	10.32	5.19	2.39	1.04	.44	.17
26.00	DISCHG	.05	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1399.33 ACRE-FT= 115.64

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	7.969	(RUNOFF)
19.51	2.352	(RUNOFF)
21.77	2.084	(RUNOFF)
23.75	1.848	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.51	2.42	5.28	7.29	7.96	7.56	6.99	6.40	5.91	5.48
14.00	DISCHG	5.09	4.77	4.51	4.30	4.12	3.98	3.86	3.73	3.60	3.47
16.00	DISCHG	3.33	3.20	3.08	3.00	2.95	2.94	2.92	2.89	2.84	2.77
18.00	DISCHG	2.69	2.61	2.52	2.43	2.38	2.35	2.34	2.35	2.35	2.32
20.00	DISCHG	2.26	2.21	2.17	2.15	2.11	2.04	1.99	2.00	2.06	2.08
22.00	DISCHG	2.04	1.99	1.96	1.94	1.89	1.82	1.76	1.78	1.83	1.85
24.00	DISCHG	1.80	1.63	1.27	.82	.47	.25	.14	.08	.04	.02
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1333 CFS-HRS= 39.59 ACRE-FT= 3.27

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	7.969	(NULL)
19.51	2.352	(NULL)
21.77	2.084	(NULL)
23.75	1.848	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.51	2.42	5.28	7.29	7.96	7.56	6.99	6.40	5.91	5.48
14.00	DISCHG	5.09	4.77	4.51	4.30	4.12	3.98	3.86	3.73	3.60	3.47
16.00	DISCHG	3.33	3.20	3.08	3.00	2.95	2.94	2.92	2.89	2.84	2.77
18.00	DISCHG	2.69	2.61	2.52	2.43	2.38	2.35	2.34	2.35	2.35	2.32
20.00	DISCHG	2.26	2.21	2.17	2.15	2.11	2.04	1.99	2.00	2.06	2.08
22.00	DISCHG	2.04	1.99	1.96	1.94	1.89	1.82	1.76	1.78	1.83	1.85
24.00	DISCHG	1.80	1.63	1.27	.82	.47	.25	.14	.08	.04	.02
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0154 CFS-HRS= 39.59 ACRE-FT= 3.27

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	688.306	(NULL)
21.84	38.272	(NULL)
23.83	33.005	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	185.13	441.87	611.66	688.28	608.59	472.18	321.97	239.68	191.66	160.88
14.00	DISCHG	139.79	124.73	113.73	105.35	98.90	93.74	89.39	85.39	81.44	77.57
16.00	DISCHG	73.68	69.94	66.67	63.99	62.08	61.00	60.38	59.56	58.25	56.58
18.00	DISCHG	54.70	52.73	50.71	48.66	46.98	45.96	45.47	45.30	45.21	44.83
20.00	DISCHG	43.80	42.43	41.31	40.60	39.85	38.64	37.37	36.97	37.63	38.25
22.00	DISCHG	37.99	37.04	36.09	35.44	34.70	33.45	32.16	31.75	32.37	32.99
24.00	DISCHG	32.67	30.66	25.58	17.83	10.32	5.19	2.39	1.04	.44	.17
26.00	DISCHG	.06	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1399.33 ACRE-FT= 115.64

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 612

INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 710
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98
.00 DISCHG .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 711
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	695.591	(NULL)
21.84	40.352	(NULL)
23.83	34.848	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	185.64	444.29	616.94	695.57	616.55	479.75	328.96	246.08	197.57	166.36
14.00	DISCHG	144.88	129.50	118.24	109.65	103.02	97.72	93.25	89.12	85.04	81.04
16.00	DISCHG	77.00	73.14	69.76	66.99	65.03	63.94	63.30	62.45	61.08	59.35
18.00	DISCHG	57.39	55.34	53.23	51.09	49.36	48.31	47.81	47.64	47.56	47.15
20.00	DISCHG	46.07	44.64	43.48	42.74	41.95	40.68	39.36	38.97	39.68	40.34
22.00	DISCHG	40.03	39.03	38.05	37.38	36.59	35.27	33.92	33.53	34.21	34.84
24.00	DISCHG	34.47	32.30	26.86	18.66	10.79	5.44	2.53	1.12	.48	.19
26.00	DISCHG	.07	.02	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1438.91 ACRE-FT= 118.91

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	10.220	(RUNOFF)
16.92	.635	(RUNOFF)
12.33	.479	(RUNOFF)
20.32	.425	(RUNOFF)

21.49	.426	(RUNOFF)
22.31	.372	(RUNOFF)
23.48	.371	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.20	3.91
12.00	DISCHG	9.95	8.05	4.12	3.26	2.15	1.87	1.61	1.41	1.35	1.16
14.00	DISCHG	1.11	1.04	.98	.96	.89	.88	.83	.79	.77	.70
16.00	DISCHG	.68	.65	.63	.63	.63	.63	.61	.59	.57	.54
18.00	DISCHG	.53	.50	.48	.47	.47	.48	.48	.48	.47	.43
20.00	DISCHG	.42	.42	.42	.42	.38	.37	.40	.42	.42	.38
22.00	DISCHG	.37	.37	.37	.36	.32	.31	.34	.37	.36	.33
24.00	DISCHG	.32	.16	.03	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5183 CFS-HRS= 13.38 ACRE-FT= 1.11

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	10.220	(NULL)
16.92	.635	(NULL)
19.33	.479	(NULL)
20.32	.425	(NULL)
21.49	.426	(NULL)
22.31	.372	(NULL)
23.48	.371	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.20	3.91
12.00	DISCHG	9.95	8.05	4.12	3.26	2.15	1.87	1.61	1.41	1.35	1.16
14.00	DISCHG	1.11	1.04	.98	.96	.89	.88	.83	.79	.77	.70
16.00	DISCHG	.68	.65	.63	.63	.63	.63	.61	.59	.57	.54
18.00	DISCHG	.53	.50	.48	.47	.47	.48	.48	.48	.47	.43
20.00	DISCHG	.42	.42	.42	.42	.38	.37	.40	.42	.42	.38
22.00	DISCHG	.37	.37	.37	.36	.32	.31	.34	.37	.36	.33
24.00	DISCHG	.32	.16	.03	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.34	4.787	(NULL)

12

22.06	.405	(NULL)
24.25	.350	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.01	.31	1.40	3.07	4.33	4.77	4.60	4.09	3.49	2.92
14.00	DISCHG	2.45	2.07	1.77	1.55	1.37	1.24	1.14	1.06	1.00	.94
16.00	DISCHG	.89	.85	.81	.77	.73	.70	.68	.66	.65	.64
18.00	DISCHG	.62	.61	.59	.57	.55	.53	.51	.50	.49	.49
20.00	DISCHG	.48	.48	.47	.46	.45	.44	.43	.42	.41	.40
22.00	DISCHG	.40	.40	.40	.39	.39	.38	.37	.36	.35	.35
24.00	DISCHG	.35	.35	.35	.33	.29	.23	.16	.11	.07	.05
26.00	DISCHG	.03	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5190 CFS-HRS= 13.40 ACRE-FT= 1.11

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	38.235	(RUNOFF)
21.80	2.837	(RUNOFF)
23.77	2.451	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.37	3.51
12.00	DISCHG	12.85	26.93	37.03	37.89	33.10	26.68	21.56	17.72	14.80	12.66
14.00	DISCHG	11.01	9.79	8.85	8.11	7.52	7.03	6.65	6.33	6.03	5.74
16.00	DISCHG	5.45	5.19	4.95	4.76	4.62	4.54	4.47	4.39	4.29	4.18
18.00	DISCHG	4.04	3.91	3.76	3.62	3.51	3.43	3.39	3.37	3.35	3.31
20.00	DISCHG	3.24	3.15	3.08	3.02	2.96	2.87	2.79	2.77	2.81	2.84
22.00	DISCHG	2.81	2.74	2.68	2.64	2.58	2.49	2.41	2.39	2.43	2.45
24.00	DISCHG	2.40	2.23	1.87	1.36	.88	.54	.32	.19	.12	.07
26.00	DISCHG	.04	.02	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5201 CFS-HRS= 93.98 ACRE-FT= 7.77

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	40.989	(NULL)
21.79	3.239	(NULL)
23.76	2.799	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.37	3.51
12.00	DISCHG	12.86	27.24	38.43	40.97	37.43	31.45	26.16	21.81	18.29	15.59
14.00	DISCHG	13.46	11.86	10.62	9.66	8.89	8.27	7.79	7.39	7.03	6.68
16.00	DISCHG	6.35	6.04	5.76	5.53	5.36	5.24	5.15	5.05	4.94	4.81
18.00	DISCHG	4.66	4.51	4.35	4.19	4.06	3.96	3.90	3.87	3.84	3.80
20.00	DISCHG	3.72	3.62	3.54	3.48	3.41	3.31	3.22	3.19	3.22	3.24
22.00	DISCHG	3.21	3.15	3.09	3.03	2.97	2.87	2.79	2.76	2.78	2.80
24.00	DISCHG	2.75	2.58	2.21	1.69	1.17	.76	.49	.30	.19	.12
26.00	DISCHG	.07	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5199 CFS-HRS= 107.38 ACRE-FT= 8.87

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 5400.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	791.273	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.10	.50	1.35	2.65	4.98	9.79	25.29	116.67
12.00	DISCHG	341.40	588.09	705.45	753.20	790.70	769.35	684.24	570.76	463.28	377.07
14.00	DISCHG	311.74	264.41	229.75	203.95	184.48	169.19	157.12	147.08	138.78	131.51
16.00	DISCHG	124.59	118.44	112.85	107.89	103.91	100.86	98.32	95.85	93.62	91.36
18.00	DISCHG	88.81	86.12	83.13	80.15	77.63	75.55	73.86	72.64	71.77	70.70
20.00	DISCHG	69.26	67.91	66.73	65.51	63.87	61.90	60.48	60.04	59.94	59.40
22.00	DISCHG	58.53	57.90	57.39	56.65	55.30	53.47	52.12	51.73	51.64	51.09
24.00	DISCHG	50.18	47.89	42.20	34.83	27.89	21.14	14.74	9.48	5.78	3.44
26.00	DISCHG	2.02	1.18	.68	.38	.21	.10	.00			

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.81	828.246	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.10	.50	1.35	2.65	4.98	9.79	25.66	120.18
12.00	DISCHG	354.26	615.33	743.88	794.25	828.13	800.80	710.40	592.57	481.57	392.65
14.00	DISCHG	325.19	276.27	240.37	213.61	193.37	177.46	164.92	154.47	145.81	138.19
16.00	DISCHG	130.94	124.48	118.61	113.41	109.27	106.10	103.46	100.90	98.56	96.18
18.00	DISCHG	93.48	90.64	87.48	84.34	81.69	79.51	77.77	76.51	75.61	74.50
20.00	DISCHG	72.98	71.53	70.27	68.99	67.27	65.20	63.70	63.23	63.16	62.64
22.00	DISCHG	61.74	61.05	60.48	59.69	58.27	56.35	54.91	54.49	54.42	53.88
24.00	DISCHG	52.94	50.47	44.41	36.52	29.06	21.90	15.22	9.79	5.97	3.56
26.00	DISCHG	2.10	1.22	.70	.39	.21	.10	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7136 CFS-HRS= 2390.30 ACRE-FT= 197.53

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.13	810.509	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.05	.30	.89	1.91	3.67	7.15	17.38
12.00	DISCHG	72.79	229.86	457.96	641.49	743.78	798.99	806.39	755.21	660.68	552.40
14.00	DISCHG	453.56	373.22	312.09	266.79	233.23	208.12	188.88	173.87	161.78	151.84
16.00	DISCHG	143.40	135.75	128.81	122.54	116.92	112.16	108.36	105.31	102.60	100.12
18.00	DISCHG	97.72	95.17	92.43	89.45	86.35	83.48	81.02	78.99	77.43	76.28
20.00	DISCHG	75.20	73.89	72.46	71.12	69.82	68.31	66.46	64.75	63.72	63.32
22.00	DISCHG	62.93	62.25	61.51	60.87	60.17	59.07	57.47	55.89	54.94	54.57
24.00	DISCHG	54.18	53.47	51.79	47.66	41.14	33.83	26.57	19.63	13.53	8.77
26.00	DISCHG	5.44	3.28	1.94	1.14	.65	.36	.19	.07	.02	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7136 CFS-HRS= 2390.17 ACRE-FT= 197.52

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.13	810.509	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.05	.30	.89	1.91	3.67	7.15	17.38
12.00	DISCHG	72.79	229.86	457.96	641.49	743.78	798.99	806.39	755.21	660.68	552.40

14.00	DISCHG	453.56	373.22	312.09	266.79	233.23	208.12	188.88	173.87	161.78	151.84
16.00	DISCHG	143.40	135.75	128.81	122.54	116.92	112.16	108.36	105.31	102.60	100.12
18.00	DISCHG	97.72	95.17	92.43	89.45	86.35	83.48	81.02	78.99	77.43	76.28
20.00	DISCHG	75.20	73.89	72.46	71.12	69.82	68.31	66.46	64.75	63.72	63.32
22.00	DISCHG	62.93	62.25	61.51	60.87	60.17	59.07	57.47	55.89	54.94	54.57
24.00	DISCHG	54.18	53.47	51.79	47.66	41.14	33.83	26.57	19.63	13.53	8.77
26.00	DISCHG	5.44	3.28	1.94	1.14	.65	.36	.19	.07	.02	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4039 CFS-HRS= 2390.17 ACRE-FT= 197.52

ENDCMP

SUMMARY TABLE 1

ALT	STORM	ID	DA SQ-MI.	RAIN TBLE	AMC	DELTA-T HRS.	TZERO HRS.	PRECIP IN.	PRECIP DURATION	PEAK-Q CFS	PEAK-TIME	PEAK-ELEV	RUNOFF IN.	CSM
3	1	1	3.25	2	2	.20	.00	3.70	24.00	1990.44	12.41	.00	1.87	612.44
3	1	2	.34	2	2	.20	.00	3.70	24.00	270.92	12.03	.00	1.51	796.82
3	1	102	3.59	2	2	.20	.00	3.70	24.00	1975.18	12.56	.00	1.84	550.19
3	1	3	.62	2	2	.20	.00	3.70	24.00	621.49	12.00	.00	1.80	1002.41
3	1	103	4.21	2	2	.20	.00	3.70	24.00	2062.08	12.61	.00	1.83	489.81
3	1	4	.66	2	2	.20	.00	3.70	24.00	634.87	12.11	.00	2.03	961.93
3	1	104	4.87	2	2	.20	.00	3.70	24.00	2167.52	12.68	.00	1.86	445.08
3	1	5	.68	2	2	.20	.00	3.70	24.00	848.94	11.96	.00	2.00	1248.44
3	1	8	.52	2	2	.20	.00	3.70	24.00	363.38	12.14	.00	1.51	698.81
3	1	108	1.20	2	2	.20	.00	3.70	24.00	931.32	12.24	.00	1.80	776.10
3	1	6	1.10	2	2	.20	.00	3.70	24.00	913.08	12.20	.00	1.95	830.08
3	1	9	.79	2	2	.20	.00	3.70	24.00	481.99	12.24	.00	1.51	610.12
3	1	109	3.09	2	2	.20	.00	3.70	24.00	1983.62	12.46	.00	1.78	641.95
3	1	310	3.09	2	2	.20	.00	3.70	24.00	1489.99	12.54	.00	.67	482.20
3	1	410	.43	2	2	.20	.00	3.70	24.00	112.86	12.23	.00	.71	262.47
3	1	411	.00	2	2	.20	.00	3.70	24.00	710.55	13.10	.00	.00	.00
3	1	510	3.52	2	2	.20	.00	3.70	24.00	618.55	13.42	.00	.32	175.72
3	1	511	.00	2	2	.20	.00	3.70	24.00	820.56	13.10	.00	.00	.00
3	1	610	.46	2	2	.20	.00	3.70	24.00	88.14	12.47	.00	.71	191.61
3	1	611	.00	2	2	.20	.00	3.70	24.00	940.56	13.10	.00	.00	.00
3	1	710	3.98	2	2	.20	.00	3.70	24.00	250.03	14.14	.00	.10	62.82
3	1	711	.00	2	2	.20	.00	3.70	24.00	1028.95	13.18	.00	.00	.00
3	1	209	.04	2	2	.20	.00	3.70	24.00	33.26	12.01	.00	1.51	831.61
3	1	208	.28	2	2	.20	.00	3.70	24.00	130.89	12.46	.00	1.51	467.45
3	1	208	.32	2	2	.20	.00	3.70	24.00	139.83	12.49	.00	1.51	436.96
3	1	211	5.19	2	2	.20	.00	3.70	24.00	2284.64	12.72	.00	1.83	440.20
3	1	712	9.17	2	2	.20	.00	3.70	24.00	2239.55	13.02	.00	1.08	244.23
3	2	1	3.25	2	2	.20	.00	2.80	24.00	1203.54	12.43	.00	1.16	370.32
3	2	2	.34	2	2	.20	.00	2.80	24.00	151.39	12.05	.00	.88	445.25
3	2	102	3.59	2	2	.20	.00	2.80	24.00	1193.66	12.58	.00	1.13	332.50
3	2	3	.62	2	2	.20	.00	2.80	24.00	374.13	12.02	.00	1.10	603.43
3	2	103	4.21	2	2	.20	.00	2.80	24.00	1246.46	12.64	.00	1.13	296.07
3	2	4	.66	2	2	.20	.00	2.80	24.00	399.43	12.12	.00	1.29	605.20
3	2	104	4.87	2	2	.20	.00	2.80	24.00	1322.75	12.72	.00	1.15	271.61
3	2	5	.68	2	2	.20	.00	2.80	24.00	539.42	11.97	.00	1.27	793.27
3	2	8	.52	2	2	.20	.00	2.80	24.00	204.22	12.17	.00	.88	392.74
3	2	108	1.20	2	2	.20	.00	2.80	24.00	560.17	12.26	.00	1.11	466.81
3	2	6	1.10	2	2	.20	.00	2.80	24.00	563.51	12.21	.00	1.22	512.28
3	2	9	.79	2	2	.20	.00	2.80	24.00	266.60	12.26	.00	.88	337.47
3	2	109	3.09	2	2	.20	.00	2.80	24.00	1185.42	12.48	.00	1.09	383.63
3	2	310	3.09	2	2	.20	.00	2.80	24.00	732.40	12.57	.00	.28	237.02
3	2	410	.43	2	2	.20	.00	2.80	24.00	37.94	12.28	.00	.32	88.24
3	2	411	.00	2	2	.20	.00	2.80	24.00	720.55	12.90	.00	.00	.00
3	2	510	3.52	2	2	.20	.00	2.80	24.00	116.48	13.36	.00	.05	33.09
3	2	511	.00	2	2	.20	.00	2.80	24.00	830.56	12.90	.00	.00	.00
3	2	610	.46	2	2	.20	.00	2.80	24.00	30.24	12.58	.00	.32	65.74
3	2	611	.00	2	2	.20	.00	2.80	24.00	874.30	12.95	.00	.00	.00
3	2	710	3.98	2	2	.20	.00	2.80	24.00	.00	.00	.00	.00	.00
3	2	711	.00	2	2	.20	.00	2.80	24.00	898.05	12.95	.00	.00	.00
3	2	209	.04	2	2	.20	.00	2.80	24.00	18.66	12.03	.00	.88	466.59
3	2	209	.28	2	2	.20	.00	2.80	24.00	72.08	12.48	.00	.88	257.45
3	2	209	.32	2	2	.20	.00	2.80	24.00	76.12	12.53	.00	.88	237.87
3	2	211	5.19	2	2	.20	.00	2.80	24.00	1374.37	12.76	.00	1.13	264.81

100-YR

25-YR

	3	2	712	9.17	2	2	.20	.00	2.80	24.00	1344.83	13.07	.00	.64	146.65
	3	3	1	3.25	2	2	.20	.00	2.20	24.00	728.44	12.45	.00	.73	224.14
	3	3	2	.34	2	2	.20	.00	2.20	24.00	82.52	12.08	.00	.52	242.71
	3	3	102	3.59	2	2	.20	.00	2.20	24.00	722.25	12.61	.00	.71	201.18
	3	3	3	.62	2	2	.20	.00	2.20	24.00	225.12	12.03	.00	.69	363.10
	3	3	103	4.21	2	2	.20	.00	2.20	24.00	754.23	12.66	.00	.71	179.15
	3	3	4	.66	2	2	.20	.00	2.20	24.00	254.05	12.14	.00	.84	384.92
	3	3	104	4.87	2	2	.20	.00	2.20	24.00	803.76	12.76	.00	.73	165.04
	3	3	5	.68	2	2	.20	.00	2.20	24.00	346.64	11.98	.00	.82	509.77
	3	3	8	.52	2	2	.20	.00	2.20	24.00	112.35	12.19	.00	.52	216.06
	3	3	108	1.20	2	2	.20	.00	2.20	24.00	337.29	12.28	.00	.70	281.08
	3	3	6	1.10	2	2	.20	.00	2.20	24.00	349.62	12.23	.00	.78	317.84
10-4R	3	3	9	.79	2	2	.20	.00	2.20	24.00	143.15	12.28	.00	.52	181.21
	3	3	109	3.09	2	2	.20	.00	2.20	24.00	700.34	12.52	.00	.68	226.65
	3	3	310	3.09	2	2	.20	.00	2.20	24.00	279.98	12.60	.00	.08	90.61
	3	3	410	.43	2	2	.20	.00	2.20	24.00	8.33	12.55	.00	.13	19.37
	3	3	411	.00	2	2	.20	.00	2.20	24.00	680.00	12.60	.00	.00	.00
	3	3	510	3.52	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
	3	3	511	.00	2	2	.20	.00	2.20	24.00	688.31	12.60	.00	.00	.00
	3	3	610	.46	2	2	.20	.00	2.20	24.00	7.97	12.83	.00	.13	17.32
	3	3	611	.00	2	2	.20	.00	2.20	24.00	688.31	12.60	.00	.00	.00
	3	3	710	3.98	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
	3	3	711	.00	2	2	.20	.00	2.20	24.00	695.59	12.60	.00	.00	.00
	3	3	209	.04	2	2	.20	.00	2.20	24.00	10.22	12.05	.00	.52	255.50
	3	3	208	.28	2	2	.20	.00	2.20	24.00	38.23	12.53	.00	.52	136.55
	3	3	208	.32	2	2	.20	.00	2.20	24.00	40.99	12.58	.00	.52	128.09
	3	3	211	5.19	2	2	.20	.00	2.20	24.00	828.25	12.81	.00	.71	159.58
	3	3	712	9.17	2	2	.20	.00	2.20	24.00	810.51	13.13	.00	.40	88.39

EXIS-NG

SUMMARY TABLE 3

		Q1 (100-yr)	Q2 (25-yr)	Q3 (5-yr)	Q4	Q5	Q6	Q7	Q8	Q9	Q10
		DISCHARGE,CFS									
Subarea No.1 (DESIGN)	XSEC/STRUC NO. 1 ALTERNATE 3	1990.44	1203.54	728.44	.00	.00	.00	.00	.00	.00	.00
Subarea No.2 (DESIGN)	XSEC/STRUC NO. 2 ALTERNATE 3	270.92	151.39	82.52	.00	.00	.00	.00	.00	.00	.00
Subarea No.3 (DESIGN)	XSEC/STRUC NO. 3 ALTERNATE 3	621.49	374.13	225.12	.00	.00	.00	.00	.00	.00	.00
Subarea No.4 (DESIGN)	XSEC/STRUC NO. 4 ALTERNATE 3	634.87	399.43	254.05	.00	.00	.00	.00	.00	.00	.00
Subarea No.5	XSEC/STRUC NO. 5 ALTERNATE 3	848.94	539.42	346.64	.00	.00	.00	.00	.00	.00	.00
Subarea No.6	XSEC/STRUC NO. 6 ALTERNATE 3	913.08	563.51	349.62	.00	.00	.00	.00	.00	.00	.00
Subarea No.8A	XSEC/STRUC NO. 8 ALTERNATE 3	363.38	204.22	112.35	.00	.00	.00	.00	.00	.00	.00
Subarea No.9A	XSEC/STRUC NO. 9 ALTERNATE 3	481.99	266.60	143.15	.00	.00	.00	.00	.00	.00	.00
Subareas 1+2	XSEC/STRUC NO.102 ALTERNATE 3	1975.18	1193.66	722.25	.00	.00	.00	.00	.00	.00	.00
Subareas 1+2+3	XSEC/STRUC NO.103 ALTERNATE 3	2062.08	1246.46	754.23	.00	.00	.00	.00	.00	.00	.00
Subareas 1+2+3+4	XSEC/STRUC NO.104 ALTERNATE 3	2167.52	1322.75	803.76	.00	.00	.00	.00	.00	.00	.00
Subareas 5+8A	XSEC/STRUC NO.108 ALTERNATE 3	931.32	560.17	337.29	.00	.00	.00	.00	.00	.00	.00
Subareas 1+2+3+4+5+8A+9A (For Flow At Bldg No. 2)	XSEC/STRUC NO.109 ALTERNATE 3	1983.62	1185.42	700.34	.00	.00	.00	.00	.00	.00	.00
Subareas 2+3+4+9B (USE For DESIGN @ RWCD @ Canal &/or Existing Lower Diversion)	XSEC/STRUC NO.208 ALTERNATE 3	139.83	76.12	40.99	.00	.00	.00	.00	.00	.00	.00
Subarea No.9B	XSEC/STRUC NO.209 ALTERNATE 3	33.26	18.66	10.22	.00	.00	.00	.00	.00	.00	.00
Subareas 1+2+3+4+5+8A+9B	XSEC/STRUC NO.211 ALTERNATE 3	2284.64	1374.37	828.25	.00	.00	.00	.00	.00	.00	.00
Flow @ Bldg No. 3	XSEC/STRUC NO.310 ALTERNATE 3	1499.99	732.40	279.98	.00	.00	.00	.00	.00	.00	.00

XSEC/STRUC NO.410											
ALTERNATE	3	112.86	37.94	8.33	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.411											
ALTERNATE	3	710.55	720.55	680.00	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.510											
ALTERNATE	3	618.55	116.48	.00	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.511											
ALTERNATE	3	820.56	830.56	688.31	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.610											
ALTERNATE	3	88.14	30.24	7.97	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.611											
ALTERNATE	3	940.56	874.30	688.31	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.710											
ALTERNATE	3	250.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.711											
ALTERNATE	3	1028.95	898.05	695.59	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.712											
ALTERNATE	3	2239.55	1344.83	810.51	.00	.00	.00	.00	.00	.00	.00

USE FOR INLET DESIGN AT. RR.

ENDJOB CARD ENCOUNTERED. END OF JOB.

RWCD,REACH 2,INLET HYDROLOGY(EXISTING CONDITION) 03/15/82

TR-20 HYDROLOGY

Without Area 7
Without Diversion
Q_{100}, Q_{50}, Q_{25} & Q_{10}

EXECUTIVE CONTROL CARD 58 OPERATION LIST

LISTING OF DATA IN CORE

0 RWCD,REACH 2,INLET HYDROLOGY(EXISTING CONDITION)

VELOCITY INCREMENT

1 CTABLE .2000

8	.0000	.0800	.1800	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300

9 ENDTBL

TIME INCREMENT

4 DIMHYD

8	.0000	.0300	.1000	.1900	.3100
8	.4700	.6600	.8200	.9300	.9900
8	1.0000	.9900	.9300	.8600	.7800
8	.6800	.5600	.4600	.3900	.3300
8	.2800	.2410	.2070	.1740	.1470
8	.1260	.1070	.0910	.0770	.0660
8	.0550	.0470	.0400	.0340	.0290
8	.0250	.0210	.0180	.0150	.0130
8	.0110	.0090	.0080	.0070	.0060
8	.0050	.0040	.0030	.0020	.0010
8	.0000	.0000	.0000	.0000	.0000

9 ENDTBL

COMPUTED PEAK K FACTOR = 484.00

TIME INCREMENT

5 RAINFL 1 .5000

```
8                .0000       .0080       .0170       .0260       .0350
8                .0450       .0550       .0650       .0760       .0870
8                .0990       .1120       .1250       .1400       .1560
8                .1740       .1940       .2190       .2540       .3030
8                .5150       .5830       .6240       .6540       .6820
8                .7050       .7270       .7480       .7670       .7840
8                .8000       .8160       .8300       .8440       .8570
8                .8700       .8820       .8930       .9050       .9160
8                .9260       .9360       .9460       .9550       .9650
8                .9740       .9830       .9920      1.0000      1.0000
9 ENDTBL

                   TIME INCREMENT
5 RAINFL 2                   .5000

8                .0000       .0050       .0110       .0160       .0220
8                .0280       .0350       .0410       .0480       .0560
8                .0630       .0710       .0800       .0890       .0980
8                .1090       .1200       .1330       .1470       .1630
8                .1810       .2040       .2350       .2830       .6630
8                .7350       .7720       .7990       .8200       .8380
8                .8540       .8680       .8800       .8910       .9020
8                .9120       .9210       .9290       .9370       .9450
8                .9520       .9590       .9650       .9720       .9780
8                .9840       .9890       .9950      1.0000      1.0000
9 ENDTBL

                   TIME INCREMENT
5 RAINFL 3                   .0200

8                .0000       .0080       .0162       .0246       .0333
8                .0425       .0524       .0630       .0743       .0863
8                .0990       .1124       .1265       .1420       .1600
8                .1800       .2050       .2550       .3450       .4370
8                .5300       .6030       .6330       .6600       .6840
8                .7050       .7240       .7420       .7590       .7750
8                .7900       .8043       .8180       .8312       .8439
8                .8561       .8678       .8790       .8898       .9002
8                .9103       .9201       .9297       .9391       .9483
8                .9573       .9661       .9747       .9832       .9916
8               1.0000      1.0000      1.0000      1.0000      1.0000
9 ENDTBL
```

STANDARD CONTROL INSTRUCTIONS

```
6 RUNOFF 1   1        6      3.2500     81.0000      .90001 1 0 1 0 1
6 REACH  3 102   6    5   3000.0000       .7500      .00000 0 0 0 0 0
6 RUNOFF 1   2        6       .3400     76.0000      .31001 1 0 1 0 1
6 ADDHYD 4 102   5 6 7                                     1 1 0 1 0 1
6 REACH  3 103   7    5   2000.0000       .7500      .00000 0 0 0 0 0
6 RUNOFF 1   3        6       .6200     80.0000      .28001 1 0 1 0 1
6 ADDHYD 4 103   5 6 7                                     1 1 0 1 0 1
6 REACH  3 104   7    5   2800.0000       .7500      .00000 0 0 0 0 0
6 RUNOFF 1   4        6       .6600     83.0000      .44001 1 0 1 0 1
6 ADDHYD 4 104   5 6 7                                     1 1 0 1 0 1
6 SAVMOV 5 104   7    1
6 RUNOFF 1   5        6       .6800     83.0000      .20001 1 0 1 0 1
6 REACH  3 108   6    5   5000.0000       .6500      .00000 0 0 0 0 0
6 RUNOFF 1   8        6       .5200     76.0000      .45001 1 0 1 0 1
6 ADDHYD 4 108   5 6 7                                     1 1 0 1 0 1
6 DIVERT 6 108   7 2 3   2000.0000      1.0000      .00000 0 0 0 0 0
6 REACH  3 109   2    5   3000.0000       .6500      .00001 1 0 1 0 0
6 SAVMOV 5 109   5    2
6 RUNOFF 1   6        6      1.1000     82.0000      .58001 1 0 1 0 1
6 REACH  3 109   6    5   6500.0000       .7500      .00000 0 0 0 0 0
6 RUNOFF 1   9        6       .7900     76.0000      .63001 1 0 1 0 1
6 ADDHYD 4 109   5 6 7                                     1 1 0 1 0 0
6 SAVMOV 5 109   7    5
6 SAVMOV 5 109   2    6
6 ADDHYD 4 109   5 6 7                                     1 1 0 1 0 1
6 DIVERT 6 109   7 2 4    400.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 310   4    5    900.0000       .6300      .00001 1 0 1 0 1
6 DIVERT 6 310   5 4 6    300.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 410   6    5   2000.0000       .4500      .00001 0 0 1 0 0
6 RUNOFF 1 410        6       .4300     62.0000      .50001 1 0 1 0 1
6 ADDHYD 4 410   5 6 7                                     1 1 0 1 0 0
6 ADDHYD 4 411   2 4 5                                     1 1 0 0 0 1
6 SAVMOV 5 411   5    2
6 DIVERT 6 410   7 4 6    110.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 510   6    5   3200.0000       .4500      .00001 1 0 1 0 1
6 ADDHYD 4 511   2 4 7                                     1 1 0 0 0 1
6 SAVMOV 5 511   7    2
6 DIVERT 6 510   5 4 6    120.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 610   6    5   3400.0000       .4500      .00001 1 0 1 0 0
6 RUNOFF 1 610        6       .4600     62.0000      .81001 1 0 1 0 1
6 ADDHYD 4 610   5 6 7                                     1 1 0 1 0 0
6 ADDHYD 4 611   2 4 5                                     1 1 0 1 0 1
6 SAVMOV 5 611   5    2
6 DIVERT 6 610   7 4 6    130.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 710   6    5    700.0000       .4500      .00001 1 0 1 0 1
6 ADDHYD 4 711   2 4 7                                     1 1 0 0 0 1
6 SAVMOV 5 711   7    2
6 SAVMOV 5 710   5    4
6 RUNOFF 1 209        6       .0400     76.0000      .28001 1 0 1 0 1
6 ADDHYD 4 209   3 6 7                                     1 1 0 0 0 0
6 REACH  3 208   7    5   5800.0000       .4700      .00001 1 0 1 0 0
6 RUNOFF 1 208        6       .2800     76.0000      .95001 1 0 1 0 1
6 ADDHYD 4 208   5 6 7                                     1 1 0 1 0 1
```

```
6 SAVMOV 5 208    7    6
6 REACH  3 211    1    5    5400.0000        .9000        .00001 1 0 0 0 0
6 ADDHYD 4 211    5 6 7                                       1 1 0 1 0 1
6 REACH  3 712    7    5    6300.0000        .7500        .00001 1 0 1 0 0
6 ADDHYD 4 712    5 4 7                                       1 1 0 1 0 1
  ENDATA

END OF LISTING
```

PASS= 1

EXECUTIVE CONTROL CARD 59 OPERATION INCREM, MAIN TIME INCREMENT= .20
EXECUTIVE CONTROL CARD 60 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 3.70 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.41	1990.436	(RUNOFF)
21.76	83.681	(RUNOFF)
23.75	71.626	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.04	.32	1.18	2.98	5.57	8.88	12.89	17.50
10.00	DISCHG	22.68	28.78	36.45	45.83	57.64	73.45	94.10	122.65	208.35	508.80
12.00	DISCHG	1107.22	1757.58	1990.14	1786.09	1402.70	1054.20	811.40	632.74	511.84	427.92
14.00	DISCHG	365.40	319.08	285.11	258.34	237.27	221.51	209.45	198.37	188.32	178.62
16.00	DISCHG	189.04	160.26	152.68	146.51	141.99	139.18	137.02	134.27	130.79	126.74
18.00	DISCHG	122.37	117.92	113.24	108.79	105.25	102.96	101.73	101.01	100.39	98.88
20.00	DISCHG	96.28	93.41	91.20	89.62	87.66	84.69	82.26	81.87	83.12	83.65
22.00	DISCHG	82.45	80.38	78.61	77.28	75.43	72.52	70.12	69.74	71.01	71.56
24.00	DISCHG	69.89	64.49	52.74	37.10	23.04	13.23	7.91	4.64	2.66	1.55
26.00	DISCHG	.89	.48	.24	.11	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8696 CFS-HRS= 3921.43 ACRE-FT= 324.07

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	270.919	(RUNOFF)
16.91	12.668	(RUNOFF)
19.32	9.387	(RUNOFF)
21.50	8.217	(RUNOFF)
23.50	7.126	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.19	.72	1.46	2.33	3.86	5.25	8.31	12.22	32.09	156.55

12.00	DISCHG	268.43	214.01	104.56	76.11	49.72	40.91	35.16	30.30	28.68	24.65
14.00	DISCHG	23.27	21.71	20.27	19.76	18.43	17.97	16.99	16.03	15.57	14.23
16.00	DISCHG	13.74	13.18	12.69	12.59	12.60	12.62	12.16	11.67	11.45	10.75
18.00	DISCHG	10.50	9.98	9.46	9.35	9.34	9.35	9.36	9.38	9.26	8.56
20.00	DISCHG	8.31	8.26	8.26	8.13	7.44	7.18	7.63	8.16	8.14	7.47
22.00	DISCHG	7.22	7.17	7.16	7.03	6.32	6.06	6.51	7.04	7.04	6.34
24.00	DISCHG	6.05	3.50	.79	.16	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5142 CFS-HRS= 332.25 ACRE-FT= 27.46

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.56	1975.178	(NULL)
21.78	90.666	(NULL)
23.75	77.444	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.13	.58	1.70	3.66	6.40	9.87	14.01
10.00	DISCHG	18.93	24.88	32.15	41.11	52.64	66.93	87.00	113.69	180.35	456.66
12.00	DISCHG	947.57	1478.30	1870.88	1967.05	1722.66	1365.14	1046.09	809.97	641.61	522.62
14.00	DISCHG	440.12	378.85	333.33	299.84	272.78	252.37	236.28	223.16	211.81	200.42
16.00	DISCHG	190.22	180.34	171.38	164.05	158.29	154.19	150.96	148.03	144.85	140.55
18.00	DISCHG	136.21	131.33	126.30	121.61	117.43	114.23	112.18	111.02	110.15	108.52
20.00	DISCHG	106.47	103.85	101.24	99.05	96.59	94.05	91.81	90.56	90.50	90.66
22.00	DISCHG	90.40	89.03	87.16	85.39	83.13	80.72	78.53	77.30	77.27	77.43
24.00	DISCHG	76.98	71.74	61.88	48.86	34.06	21.30	12.58	7.47	4.38	2.53
26.00	DISCHG	1.47	.83	.45	.23	.10	.03	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8357 CFS-HRS= 4253.00 ACRE-FT= 351.47

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	621.494	(RUNOFF)
16.91	25.444	(RUNOFF)
19.31	18.750	(RUNOFF)
20.30	16.500	(RUNOFF)
21.48	16.400	(RUNOFF)
23.47	14.134	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

		0	.2	.4	.6	.8	1.0	1.2	1.4	1.6	1.8
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.17	.70	1.47	2.34	3.23	4.43
10.00	DISCHG	5.48	7.43	9.53	11.69	16.32	19.40	28.28	37.67	96.07	409.73
12.00	DISCHG	621.41	424.90	200.73	149.77	96.47	82.45	69.93	60.98	57.76	49.33
14.00	DISCHG	47.03	43.51	40.82	39.84	36.96	36.22	33.97	32.16	31.29	28.32
16.00	DISCHG	27.55	26.34	25.41	25.28	25.29	25.32	24.23	23.32	22.84	21.37
18.00	DISCHG	20.97	19.77	18.83	18.67	18.66	18.68	18.70	18.72	18.41	16.94
20.00	DISCHG	16.52	16.46	16.46	16.16	14.65	14.26	15.34	16.31	16.21	14.71
22.00	DISCHG	14.30	14.24	14.23	13.91	12.39	11.99	13.08	14.06	13.91	12.44
24.00	DISCHG	12.02	6.04	1.11	.19	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7961 CFS-HRS= 718.68 ACRE-FT= 59.39

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	2062.084	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME		0	.2	.4	.6	.8	1.0	1.2	1.4	1.6	1.8
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.08	.54	1.89	4.22	7.46	11.47	16.48
10.00	DISCHG	22.08	29.50	38.25	48.57	63.53	79.58	105.86	138.80	245.78	740.79
12.00	DISCHG	1341.17	1650.87	1879.47	2061.21	1924.79	1614.43	1269.67	986.64	782.27	630.60
14.00	DISCHG	527.89	452.44	396.48	356.12	322.93	298.58	278.11	261.70	248.60	234.20
16.00	DISCHG	222.68	211.42	201.11	192.89	186.39	181.53	176.77	172.76	169.20	163.94
18.00	DISCHG	159.25	153.42	147.53	142.53	138.11	134.47	131.90	130.32	128.99	126.21
20.00	DISCHG	123.96	121.55	118.95	116.27	112.41	109.52	108.23	107.50	106.78	105.30
22.00	DISCHG	104.82	103.89	102.27	100.15	96.59	93.86	92.66	91.98	91.24	89.80
24.00	DISCHG	89.20	80.14	67.56	55.17	41.10	27.47	16.89	10.04	5.93	3.46
26.00	DISCHG	2.00	1.15	.64	.34	.16	.06	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8295 CFS-HRS= 4970.75 ACRE-FT= 410.78

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	634.872	(RUNOFF)
19.31	21.137	(RUNOFF)
21.56	18.225	(RUNOFF)
23.56	15.656	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

		0	.2	.4	.6	.8	1.0	1.2	1.4	1.6	1.8
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8.00	DISCHG	.33	.83	1.51	2.24	3.05	3.89	4.85	6.03	7.16	8.58
10.00	DISCHG	10.01	11.98	14.83	17.50	22.23	26.99	34.45	46.52	85.44	318.96
12.00	DISCHG	597.33	608.36	366.58	233.33	158.39	114.53	93.54	77.47	70.09	61.96
14.00	DISCHG	56.13	52.55	48.58	46.52	43.96	42.04	40.29	37.82	36.38	33.99
16.00	DISCHG	32.08	30.87	29.52	28.91	28.74	28.69	28.14	27.00	26.31	25.08
18.00	DISCHG	24.11	23.21	21.94	21.35	21.17	21.12	21.11	21.12	20.98	19.95
20.00	DISCHG	19.03	18.71	18.61	18.43	17.37	16.46	16.71	17.80	18.20	17.32
22.00	DISCHG	16.46	16.16	16.07	15.87	14.81	13.88	14.14	15.24	15.63	14.75
24.00	DISCHG	13.83	10.56	4.48	1.48	.49	.16	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0310 CFS-HRS= 865.09 ACRE-FT= 71.49

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.68	2167.518	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8.00	DISCHG	.33	.83	1.52	2.27	3.30	4.90	7.50	11.27	15.84	21.58
10.00	DISCHG	28.16	36.34	46.96	58.84	75.50	95.24	122.45	162.48	261.45	741.40
12.00	DISCHG	1523.63	2013.53	2072.31	2159.12	2151.56	1931.64	1604.22	1271.31	1006.12	806.67
14.00	DISCHG	662.55	562.01	487.20	433.16	391.47	358.92	333.50	311.67	294.69	278.41
16.00	DISCHG	263.25	250.39	238.09	227.88	219.95	213.86	208.34	202.70	198.11	192.64
18.00	DISCHG	186.75	180.71	173.66	167.53	162.50	158.26	154.95	152.67	150.96	148.02
20.00	DISCHG	144.63	141.97	139.40	136.61	132.43	128.12	126.02	125.89	125.51	123.61
22.00	DISCHG	121.71	120.69	119.43	117.49	113.81	109.74	107.81	107.77	107.40	105.52
24.00	DISCHG	103.52	96.42	80.62	65.48	51.50	37.39	24.77	15.31	9.16	5.41
26.00	DISCHG	3.16	1.83	1.05	.58	.30	.14	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8561 CFS-HRS= 5833.56 ACRE-FT= 482.09

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.96	848.941	(RUNOFF)
16.90	29.804	(RUNOFF)
19.31	21.864	(RUNOFF)
20.30	19.218	(RUNOFF)
21.40	19.135	(RUNOFF)
22.30	16.596	(RUNOFF)
23.40	16.489	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
8.00	DISCHG	.73	1.49	2.26	3.06	3.99	4.80	6.20	7.33	8.58	10.36
10.00	DISCHG	11.56	15.34	17.79	21.40	28.31	31.48	48.48	58.08	198.33	648.64
12.00	DISCHG	832.94	358.35	194.84	157.72	100.91	94.99	76.02	70.32	65.85	55.91
14.00	DISCHG	54.90	49.23	47.47	46.01	42.66	42.34	38.54	37.32	35.85	32.41
16.00	DISCHG	32.06	30.13	29.52	29.51	29.54	29.57	27.64	27.02	26.27	24.54
18.00	DISCHG	24.36	22.36	21.75	21.71	21.72	21.74	21.76	21.78	21.06	19.31
20.00	DISCHG	19.12	19.12	19.13	18.42	16.64	16.47	18.45	19.13	18.48	16.69
22.00	DISCHG	16.51	16.50	16.51	15.78	13.99	13.81	15.82	16.49	15.81	14.03
24.00	DISCHG	13.83	3.57	.32	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0008 CFS-HRS= 878.07 ACRE-FT= 72.56

SUBROUTINE REACH CROSS SECTION 108
LENGTH= 5000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.43

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	363.383	(RUNOFF)
19.33	14.335	(RUNOFF)
21.57	12.430	(RUNOFF)
23.57	10.716	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.16	.71	1.67	2.65	4.72	6.91	10.25	15.65	33.53	150.35
12.00	DISCHG	319.52	357.05	227.60	148.69	102.15	74.62	61.29	50.95	46.05	40.89
14.00	DISCHG	37.05	34.76	32.22	30.87	29.22	27.96	26.86	25.28	24.33	22.77
16.00	DISCHG	21.50	20.70	19.83	19.42	19.31	19.29	18.95	18.22	17.75	16.96
18.00	DISCHG	16.31	15.71	14.88	14.46	14.34	14.31	14.31	14.33	14.25	13.57
20.00	DISCHG	12.95	12.73	12.67	12.56	11.86	11.23	11.39	12.11	12.42	11.85
22.00	DISCHG	11.26	11.05	10.99	10.87	10.16	9.52	9.68	10.41	10.71	10.14
24.00	DISCHG	9.51	7.34	3.21	1.09	.37	.12	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5145 CFS-HRS= 508.26 ACRE-FT= 42.00

SUBROUTINE ADDHYD CROSS SECTION 108
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.24	931.325	(NULL)
21.67	30.703	(NULL)

23.67	26.340	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.07	.32	.81	1.46	2.19	3.01	3.86	4.87	6.03	7.22
10.00	DISCHG	8.76	10.75	13.83	17.69	22.49	29.06	37.07	50.74	79.59	248.47
12.00	DISCHG	620.12	921.26	803.50	551.07	368.02	255.16	191.21	152.80	130.26	115.03
14.00	DISCHG	102.89	94.31	87.05	81.77	77.54	73.79	70.69	66.96	63.76	60.44
16.00	DISCHG	56.96	54.24	51.83	50.10	49.28	48.98	48.55	47.18	45.75	44.12
18.00	DISCHG	42.37	40.81	38.88	37.30	36.49	36.19	36.10	36.09	36.02	35.12
20.00	DISCHG	33.66	32.55	32.05	31.78	30.79	29.29	28.56	29.48	30.62	30.41
22.00	DISCHG	29.22	28.22	27.74	27.47	26.47	24.95	24.20	25.13	26.26	26.04
24.00	DISCHG	24.81	21.84	14.02	6.63	2.64	.96	.34	.11	.04	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7984 CFS-HRS= 1392.77 ACRE-FT= 115.10

SUBROUTINE DIVERT CROSS SECTION 108
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	815.089	(NULL)
21.90	30.339	(NULL)
23.90	25.972	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.29	.71	1.30	2.00	2.78	3.62	4.60	5.70
10.00	DISCHG	6.89	8.37	10.31	13.11	16.73	21.34	27.44	35.41	48.78	86.51
12.00	DISCHG	234.36	529.36	787.59	773.84	602.59	430.09	303.43	222.43	172.29	141.87
14.00	DISCHG	122.21	108.07	97.89	89.91	83.90	79.16	75.16	71.72	68.13	64.80
16.00	DISCHG	61.46	58.10	55.21	52.71	50.84	49.73	49.17	48.61	47.49	46.13
18.00	DISCHG	44.58	42.91	41.28	39.47	37.90	36.90	36.40	36.19	36.12	35.96
20.00	DISCHG	35.24	34.04	32.97	32.31	31.85	30.97	29.75	29.02	29.45	30.24
22.00	DISCHG	30.24	29.44	28.55	27.97	27.52	26.65	25.40	24.67	25.09	25.88
24.00	DISCHG	25.87	24.85	22.01	15.79	9.09	4.48	2.00	.83	.33	.13
26.00	DISCHG	.05	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7951 CFS-HRS= 1390.22 ACRE-FT= 114.89

14

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.20	913.084	(RUNOFF)
21.63	29.411	(RUNOFF)
23.63	25.196	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.11	.56	1.39	2.45	3.67	5.05	6.68	8.43	10.42
10.00	DISCHG	12.61	15.28	18.99	23.16	29.01	36.21	45.90	61.21	108.16	340.66
12.00	DISCHG	726.14	913.06	725.21	483.07	334.92	238.02	183.20	148.12	125.71	109.84
14.00	DISCHG	97.63	89.84	83.07	78.22	74.16	70.47	67.48	63.84	60.85	57.55
16.00	DISCHG	54.12	51.71	49.47	47.93	47.28	47.03	46.46	44.96	43.62	42.02
18.00	DISCHG	40.29	38.84	36.95	35.54	34.93	34.67	34.58	34.56	34.43	33.36
20.00	DISCHG	31.88	31.01	30.65	30.34	29.21	27.71	27.36	28.45	29.40	28.85
22.00	DISCHG	27.60	26.81	26.48	26.17	25.04	23.54	23.19	24.26	25.18	24.64
24.00	DISCHG	23.25	19.62	11.99	5.51	2.41	1.04	.44	.18	.06	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9467 CFS-HRS= 1382.00 ACRE-FT= 114.21

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 6500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.33

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.24	481.992	(RUNOFF)
21.65	18.565	(RUNOFF)
23.65	15.935	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.13	.65	1.70	3.22	5.43	8.35	12.43	18.82	39.63	137.86
12.00	DISCHG	334.21	478.10	414.47	293.92	209.40	152.30	116.77	94.61	80.18	69.84
14.00	DISCHG	61.56	56.19	52.05	48.86	46.33	44.06	42.17	40.04	38.11	36.16
16.00	DISCHG	34.10	32.52	31.14	30.14	29.65	29.44	29.10	28.31	27.49	26.53
18.00	DISCHG	25.48	24.53	23.45	22.54	22.07	21.87	21.80	21.78	21.69	21.14
20.00	DISCHG	20.28	19.68	19.42	19.21	18.59	17.71	17.38	17.91	18.54	18.32
22.00	DISCHG	17.61	17.08	16.84	16.64	16.02	15.10	14.76	15.33	15.91	15.72
24.00	DISCHG	14.94	12.96	8.44	4.24	1.98	.93	.42	.19	.08	.03
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5135 CFS-HRS= 771.66 ACRE-FT= 63.77

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.44	1173.841	(NULL)
21.80	47.112	(NULL)
23.80	40.307	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.89

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.05	.31	.89	1.77	2.86	4.12	5.60	7.25
10.00	DISCHG	9.22	11.78	15.22	19.84	25.81	33.61	43.94	58.48	91.30	219.32
12.00	DISCHG	548.07	971.83	1169.32	1074.25	832.64	600.97	434.66	327.01	259.24	215.18
14.00	DISCHG	184.71	163.62	148.49	137.15	128.42	121.32	115.36	109.78	104.42	99.20
16.00	DISCHG	93.93	89.00	84.72	81.25	78.81	77.38	76.43	75.15	73.32	71.08
18.00	DISCHG	68.57	65.99	63.35	60.74	58.67	57.39	56.76	56.49	56.29	55.65
20.00	DISCHG	54.22	52.47	51.12	50.23	49.19	47.57	46.04	45.70	46.54	47.11
22.00	DISCHG	46.58	45.36	44.24	43.44	42.43	40.79	39.25	38.95	39.73	40.31
24.00	DISCHG	39.70	36.96	30.13	20.71	12.03	6.13	2.90	1.31	.57	.23
26.00	DISCHG	.08	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7648 CFS-HRS= 2152.56 ACRE-FT= 177.89

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	1983.624	(NULL)
21.84	77.394	(NULL)
23.84	66.220	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.08	305.83
12.00	DISCHG	782.43	1501.19	1956.92	1848.09	1435.24	1031.06	738.08	549.43	431.53	357.05
14.00	DISCHG	306.92	271.69	246.38	227.06	212.31	200.48	190.52	181.49	172.55	164.00
16.00	DISCHG	155.39	147.10	139.93	133.97	129.64	127.11	125.60	123.76	120.81	117.21
18.00	DISCHG	113.15	108.90	104.62	100.21	96.56	94.29	93.16	92.68	92.41	91.61

20.00	DISCHG	89.45	86.52	84.09	82.54	81.03	78.54	75.78	74.72	75.99	77.35
22.00	DISCHG	76.82	74.80	72.79	71.41	69.96	67.43	64.65	63.61	64.83	66.18
24.00	DISCHG	65.57	61.81	52.14	36.50	21.12	10.61	4.90	2.14	.89	.35
26.00	DISCHG	.12	.04	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7766 CFS-HRS= 3542.78 ACRE-FT= 292.78

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.54	1489.989	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	260.90	865.15	1397.29	1472.65	1167.97	767.83	439.77	215.77	73.16	12.63
14.00	DISCHG	.79	.05	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6691 CFS-HRS= 1334.41 ACRE-FT= 110.28

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.87	918.278	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4315 CFS-HRS= 860.47 ACRE-FT= 71.11

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	112.862	(RUNOFF)
16.91	10.006	(RUNOFF)
19.38	7.608	(RUNOFF)
21.60	6.679	(RUNOFF)
23.59	5.813	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.33	13.39
12.00	DISCHG	66.98	111.99	88.81	63.28	47.42	35.79	29.83	25.20	22.48	20.25
14.00	DISCHG	18.40	17.27	16.11	15.42	14.72	14.11	13.63	12.90	12.42	11.74
16.00	DISCHG	11.09	10.69	10.27	10.04	9.99	9.99	9.87	9.54	9.30	8.95
18.00	DISCHG	8.61	8.32	7.91	7.66	7.59	7.58	7.59	7.61	7.58	7.30
20.00	DISCHG	6.97	6.83	6.79	6.74	6.43	6.09	6.12	6.47	6.68	6.46
22.00	DISCHG	6.15	6.01	5.97	5.91	5.60	5.25	5.27	5.62	5.81	5.59
24.00	DISCHG	5.27	4.27	2.16	.81	.31	.12	.04	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7115 CFS-HRS= 197.45 ACRE-FT= 16.32

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.86	961.338	(NULL)
16.91	10.006	(NULL)
19.38	7.608	(NULL)
21.60	6.679	(NULL)
23.59	5.813	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.33	13.39
12.00	DISCHG	66.98	139.13	396.62	749.05	949.42	902.43	691.61	432.75	236.79	132.94
14.00	DISCHG	77.66	48.43	32.50	24.04	19.25	16.49	14.88	13.56	12.76	11.92
16.00	DISCHG	11.19	10.74	10.30	10.06	9.99	9.99	9.87	9.54	9.30	8.95
18.00	DISCHG	8.61	8.32	7.91	7.66	7.59	7.58	7.59	7.61	7.58	7.30
20.00	DISCHG	6.97	6.83	6.79	6.74	6.43	6.09	6.12	6.47	6.68	6.46
22.00	DISCHG	6.15	6.01	5.97	5.91	5.60	5.25	5.27	5.62	5.81	5.59
24.00	DISCHG	5.27	4.27	2.16	.81	.31	.12	.04	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4657 CFS-HRS= 1057.92 ACRE-FT= 87.43

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.10	710.555	(NULL)
21.84	77.394	(NULL)
23.84	66.220	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.08	305.83
12.00	DISCHG	660.90	700.00	700.00	700.00	700.00	700.00	700.00	615.77	473.16	369.69
14.00	DISCHG	307.71	271.74	246.38	227.06	212.31	200.48	190.52	181.49	172.55	164.00
16.00	DISCHG	155.39	147.10	139.93	133.97	129.64	127.11	125.60	123.76	120.81	117.21
18.00	DISCHG	113.15	108.90	104.62	100.21	96.56	94.29	93.16	92.68	92.41	91.61
20.00	DISCHG	89.45	86.52	84.09	82.54	81.03	78.54	75.78	74.72	75.99	77.35
22.00	DISCHG	76.82	74.80	72.79	71.41	69.96	67.43	64.65	63.61	64.83	66.18
24.00	DISCHG	65.57	61.81	52.14	36.50	21.12	10.61	4.90	2.14	.89	.35
26.00	DISCHG	.12	.04	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 2674.52 ACRE-FT= 221.02

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.42	618.550	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	4.94	56.78	195.26	388.19	551.31	617.88	575.13	458.03
14.00	DISCHG	319.28	200.85	118.79	68.08	38.35	21.39	11.86	6.56	3.62	1.99
16.00	DISCHG	1.10	.60	.33	.18	.10	.06	.03	.02	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3205 CFS-HRS= 728.18 ACRE-FT= 60.18

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.10	820.559	(NULL)
21.82	83.810	(NULL)
23.81	71.775	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.41	319.22
12.00	DISCHG	727.88	810.00	810.00	810.00	810.00	810.00	810.00	725.77	583.16	479.69
14.00	DISCHG	385.37	320.17	278.87	251.10	231.56	216.97	205.39	195.05	185.31	175.91
16.00	DISCHG	166.58	157.84	150.22	144.03	139.63	137.10	135.47	133.30	130.11	126.16
18.00	DISCHG	121.76	117.22	112.53	107.88	104.15	101.87	100.75	100.28	99.99	98.91
20.00	DISCHG	96.43	93.35	90.88	89.28	87.47	84.63	81.90	81.19	82.67	83.80
22.00	DISCHG	82.97	80.81	78.76	77.32	75.55	72.68	69.92	69.23	70.64	71.77
24.00	DISCHG	70.84	66.08	54.30	37.31	21.43	10.73	4.94	2.15	.90	.35
26.00	DISCHG	.12	.04	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 3006.16 ACRE-FT= 248.43

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.53

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.03	373.033	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	.00	.00	9.83	55.24	145.10	252.03	337.13
14.00	DISCHG	372.50	352.32	290.22	208.56	133.55	80.71	47.18	27.03	15.28	8.56
16.00	DISCHG	4.77	2.65	1.47	.81	.45	.25	.14	.07	.04	.02
18.00	DISCHG	.01	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2065 CFS-HRS= 469.19 ACRE-FT= 38.77

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	88.140	(RUNOFF)
21.76	6.976	(RUNOFF)
23.73	6.047	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.39	5.39
12.00	DISCHG	30.19	67.05	86.85	82.76	67.86	53.82	43.22	35.68	30.32	26.47
14.00	DISCHG	23.44	21.18	19.37	17.96	16.93	16.09	15.39	14.70	14.04	13.38
16.00	DISCHG	12.72	12.12	11.60	11.21	10.94	10.82	10.71	10.51	10.26	9.97
18.00	DISCHG	9.63	9.29	8.93	8.60	8.37	8.24	8.18	8.16	8.13	8.01
20.00	DISCHG	7.79	7.56	7.41	7.31	7.15	6.89	6.71	6.75	6.91	6.97
22.00	DISCHG	6.82	6.63	6.51	6.42	6.26	5.99	5.79	5.84	6.00	6.04
24.00	DISCHG	5.87	5.32	4.14	2.68	1.52	.82	.46	.25	.14	.07
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7100 CFS-HRS= 210.78 ACRE-FT= 17.42

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	88.140	(NULL)
14.02	396.180	(NULL)
21.76	6.976	(NULL)
23.73	6.047	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.39	5.39
12.00	DISCHG	30.19	67.05	86.85	82.76	67.86	63.65	98.46	180.78	282.35	363.59
14.00	DISCHG	395.94	373.50	309.59	226.52	150.48	96.80	62.58	41.73	29.32	21.94
16.00	DISCHG	17.49	14.77	13.07	12.02	11.39	11.06	10.84	10.59	10.30	9.99
18.00	DISCHG	9.64	9.29	8.93	8.60	8.37	8.24	8.18	8.16	8.13	8.01
20.00	DISCHG	7.79	7.56	7.41	7.31	7.15	6.89	6.71	6.75	6.91	6.97
22.00	DISCHG	6.82	6.63	6.51	6.42	6.26	5.99	5.79	5.84	6.00	6.04
24.00	DISCHG	5.87	5.32	4.14	2.68	1.52	.82	.46	.25	.14	.07
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2647 CFS-HRS= 679.98 ACRE-FT= 56.19

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.10	940.564	(NULL)
21.82	83.310	(NULL)
23.81	71.775	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.41	319.22
12.00	DISCHG	727.88	810.00	814.94	866.78	930.00	930.00	930.00	845.77	703.16	599.69
14.00	DISCHG	505.37	440.17	397.66	319.18	269.91	238.36	217.26	201.61	188.93	177.91
16.00	DISCHG	167.67	158.45	150.56	144.21	139.73	137.16	135.50	133.32	130.12	126.16
18.00	DISCHG	121.76	117.22	112.53	107.88	104.15	101.87	100.75	100.28	99.99	98.91
20.00	DISCHG	96.43	93.35	90.88	89.28	87.47	84.63	81.90	81.19	82.67	83.80
22.00	DISCHG	82.97	80.81	78.76	77.32	75.55	72.68	69.92	69.23	70.64	71.77
24.00	DISCHG	70.84	66.08	54.30	37.31	21.43	10.73	4.94	2.15	.90	.35
26.00	DISCHG	.12	.04	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 3263.56 ACRE-FT= 269.70

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 710
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.14	250.034	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	26.77	98.80	182.83
14.00	DISCHG	238.94	247.87	210.81	142.99	67.15	20.45	4.72	1.09	.25	.06
16.00	DISCHG	.01	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0968 CFS-HRS= 248.64 ACRE-FT= 20.55

SUBROUTINE ADDHYD CROSS SECTION 711
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.88	1002.526	(NULL)
13.18	1028.951	(NULL)
21.81	90.778	(NULL)
23.80	77.810	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.08	.35	1.02	2.19	3.76	5.64	7.74	10.19	12.95
10.00	DISCHG	16.11	20.15	25.52	32.95	42.54	54.95	71.38	93.89	140.80	324.60
12.00	DISCHG	758.07	877.05	901.79	949.54	997.86	993.65	1028.46	975.77	833.16	729.69
14.00	DISCHG	635.37	570.17	527.66	449.18	399.91	335.16	279.84	243.34	218.25	199.85
16.00	DISCHG	185.16	173.21	163.62	156.23	151.12	148.22	146.34	143.91	140.43	136.15
18.00	DISCHG	131.40	126.51	121.46	116.48	112.52	110.11	108.93	108.44	108.12	106.92
20.00	DISCHG	104.21	100.91	98.29	96.59	94.61	91.53	88.61	87.94	89.58	90.78
22.00	DISCHG	89.79	87.45	85.27	83.75	81.81	78.68	75.72	75.07	76.64	77.81
24.00	DISCHG	76.71	71.41	58.44	39.99	22.95	11.55	5.40	2.41	1.03	.43
26.00	DISCHG	.16	.05	.01	.00						

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 3694.58 ACRE-FT= 305.32

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	33.265	(RUNOFF)
16.91	1.492	(RUNOFF)
19.32	1.105	(RUNOFF)
20.30	.974	(RUNOFF)
21.48	.970	(RUNOFF)
22.30	.845	(RUNOFF)
23.47	.838	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.03	.09	.18	.29	.48	.64	1.03	1.49	4.24	20.27
12.00	DISCHG	33.21	23.45	11.27	8.51	5.51	4.73	4.02	3.52	3.34	2.85
14.00	DISCHG	2.72	2.52	2.37	2.32	2.15	2.11	1.98	1.88	1.83	1.65
16.00	DISCHG	1.61	1.54	1.49	1.48	1.48	1.48	1.42	1.37	1.34	1.26
18.00	DISCHG	1.23	1.16	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.00
20.00	DISCHG	.98	.97	.97	.95	.87	.84	.91	.96	.96	.87
22.00	DISCHG	.85	.84	.84	.82	.73	.71	.78	.83	.82	.74
24.00	DISCHG	.71	.36	.07	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5106 CFS-HRS= 39.00 ACRE-FT= 3.22

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	33.265	(NULL)
16.91	1.492	(NULL)
19.32	1.105	(NULL)
20.30	.974	(NULL)
21.48	.970	(NULL)
22.30	.845	(NULL)
23.47	.838	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.03	.09	.18	.29	.48	.64	1.03	1.49	4.24	20.27
12.00	DISCHG	33.21	23.45	11.27	8.51	5.51	4.73	4.02	3.52	3.34	2.85
14.00	DISCHG	2.72	2.52	2.37	2.32	2.15	2.11	1.98	1.88	1.83	1.65
16.00	DISCHG	1.61	1.54	1.49	1.48	1.48	1.48	1.42	1.37	1.34	1.26
18.00	DISCHG	1.23	1.16	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.00
20.00	DISCHG	.98	.97	.97	.95	.87	.84	.91	.96	.96	.87
22.00	DISCHG	.85	.84	.84	.82	.73	.71	.78	.83	.82	.74
24.00	DISCHG	.71	.36	.07	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.95	16.168	(NULL)
22.13	.924	(NULL)
24.13	.792	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.01	.03	.07	.14	.23	.36	.55
12.00	DISCHG	.97	2.77	7.13	12.42	15.65	16.11	14.75	12.57	10.33	8.36
14.00	DISCHG	6.78	5.58	4.66	3.98	3.48	3.10	2.82	2.60	2.43	2.28
16.00	DISCHG	2.16	2.04	1.93	1.83	1.74	1.67	1.60	1.56	1.53	1.50
18.00	DISCHG	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.16	1.14	1.12
20.00	DISCHG	1.11	1.10	1.08	1.05	1.03	1.01	.99	.96	.93	.92
22.00	DISCHG	.92	.92	.91	.90	.88	.87	.85	.82	.80	.79
24.00	DISCHG	.79	.79	.78	.74	.65	.51	.37	.26	.17	.11
26.00	DISCHG	.07	.04	.02	.01	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5079 CFS-HRS= 38.92 ACRE-FT= 3.22

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	130.887	(RUNOFF)
21.79	6.480	(RUNOFF)
23.76	5.552	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.11	.31	.67	1.22	1.98	3.05	4.56	9.47	26.57
12.00	DISCHG	62.76	106.44	129.74	123.02	101.53	78.44	61.18	48.82	39.71	33.20
14.00	DISCHG	28.31	24.81	22.13	20.06	18.41	17.09	16.10	15.26	14.48	13.75
16.00	DISCHG	13.02	12.36	11.77	11.28	10.93	10.70	10.53	10.33	10.08	9.78
18.00	DISCHG	9.45	9.12	8.77	8.43	8.16	7.97	7.86	7.80	7.75	7.64
20.00	DISCHG	7.46	7.25	7.08	6.95	6.80	6.58	6.40	6.35	6.42	6.48
22.00	DISCHG	6.41	6.25	6.11	6.01	5.88	5.66	5.48	5.43	5.50	5.55
24.00	DISCHG	5.44	5.05	4.22	3.07	2.00	1.21	.73	.43	.26	.16
26.00	DISCHG	.09	.05	.03	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5115 CFS-HRS= 273.13 ACRE-FT= 22.57

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	139.827	(NULL)
21.78	7.400	(NULL)
23.75	6.341	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.11	.31	.68	1.25	2.06	3.19	4.79	9.83	27.12
12.00	DISCHG	63.73	109.21	136.87	135.44	117.18	94.55	75.93	61.39	50.04	41.56
14.00	DISCHG	35.10	30.38	26.79	24.04	21.89	20.19	18.92	17.86	16.91	16.03
16.00	DISCHG	15.18	14.40	13.70	13.11	12.68	12.37	12.13	11.89	11.60	11.27
18.00	DISCHG	10.91	10.54	10.14	9.76	9.44	9.21	9.05	8.96	8.89	8.77
20.00	DISCHG	8.58	8.35	8.15	8.00	7.83	7.59	7.38	7.30	7.35	7.40
22.00	DISCHG	7.33	7.18	7.03	6.91	6.76	6.53	6.33	6.25	6.30	6.34
24.00	DISCHG	6.23	5.84	5.00	3.82	2.65	1.72	1.10	.69	.43	.26
26.00	DISCHG	.16	.09	.05	.03	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5110 CFS-HRS= 312.05 ACRE-FT= 25.79

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 5400.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.74	2160.745	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
8.00	DISCHG	.21	.61	1.21	1.93	2.83	4.17	6.32	9.56	13.76	18.97
10.00	DISCHG	25.16	32.62	42.14	53.44	67.94	86.26	110.10	144.33	216.73	525.18
12.00	DISCHG	1169.18	1788.41	2042.69	2119.70	2154.39	2030.46	1752.70	1422.97	1127.41	898.00
14.00	DISCHG	728.59	608.11	521.46	457.92	410.55	373.81	345.13	321.64	302.46	285.84
16.00	DISCHG	270.17	256.26	243.70	232.54	223.58	216.65	210.86	205.27	200.21	195.13
18.00	DISCHG	189.43	183.46	176.87	170.33	164.80	160.20	156.47	153.72	151.74	149.35
20.00	DISCHG	146.17	143.19	140.57	137.88	134.33	130.09	126.99	125.96	125.68	124.47
22.00	DISCHG	122.58	121.16	120.00	118.37	115.47	111.59	108.70	107.80	107.57	106.37
24.00	DISCHG	104.43	99.63	87.77	72.38	57.88	43.82	30.53	19.64	11.98	7.13
26.00	DISCHG	4.19	2.44	1.41	.79	.43	.22	.09	.00		

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.72	2284.642	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
8.00	DISCHG	.21	.61	1.21	1.93	2.83	4.17	6.32	9.56	13.76	18.97
10.00	DISCHG	25.19	32.73	42.45	54.12	69.19	88.32	113.29	149.11	226.56	552.30
12.00	DISCHG	1232.90	1897.62	2179.55	2255.14	2271.57	2125.01	1828.63	1484.36	1177.45	939.56
14.00	DISCHG	763.69	638.49	548.25	481.96	432.44	394.00	364.05	339.50	319.37	301.87
16.00	DISCHG	285.34	270.67	257.40	245.66	236.26	229.02	223.00	217.16	211.81	206.40
18.00	DISCHG	200.34	194.00	187.01	180.09	174.24	169.40	165.52	162.68	160.63	158.12
20.00	DISCHG	154.75	151.54	148.73	145.88	142.16	137.68	134.37	133.27	133.03	131.86
22.00	DISCHG	129.90	128.33	127.03	125.28	122.24	118.13	115.03	114.05	113.87	112.70
24.00	DISCHG	110.66	105.46	92.77	76.20	60.52	45.55	31.63	20.33	12.41	7.40
26.00	DISCHG	4.35	2.53	1.46	.82	.44	.22	.09	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8341 CFS-HRS= 6143.41 ACRE-FT= 507.69

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.02	2239.546	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.02	.12	.39	.86	1.49	2.29	3.39	5.09	7.69	11.27
10.00	DISCHG	15.83	21.40	28.14	36.61	47.02	60.13	76.82	98.35	128.09	184.04
12.00	DISCHG	385.35	863.62	1483.28	1937.15	2156.66	2238.61	2186.80	1986.73	1690.34	1377.82
14.00	DISCHG	1105.29	890.68	731.19	615.35	530.99	468.79	421.78	385.55	356.80	333.48
16.00	DISCHG	313.89	296.36	280.54	266.30	253.58	242.80	234.17	227.21	221.04	215.38
18.00	DISCHG	209.91	204.15	198.02	191.40	184.54	178.19	172.74	168.24	164.74	162.14
20.00	DISCHG	159.71	156.77	153.60	150.61	147.73	144.42	140.41	136.66	134.39	133.43
22.00	DISCHG	132.53	131.01	129.37	127.92	126.35	123.97	120.54	117.14	115.07	114.22
24.00	DISCHG	113.35	111.81	108.25	99.57	85.90	70.55	55.31	40.82	28.12	18.21
26.00	DISCHG	11.30	6.81	4.04	2.36	1.36	.76	.41	.20	.07	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8340 CFS-HRS= 6143.08 ACRE-FT= 507.66

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.02	2239.546	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.02	.12	.39	.86	1.49	2.29	3.39	5.09	7.69	11.27
10.00	DISCHG	15.83	21.40	28.14	36.61	47.02	60.13	76.82	98.35	128.09	184.04
12.00	DISCHG	385.35	863.62	1483.28	1937.15	2156.66	2238.61	2186.80	2013.51	1789.14	1560.65
14.00	DISCHG	1344.23	1138.56	942.00	758.34	598.14	489.24	426.50	386.64	357.05	333.53
16.00	DISCHG	313.90	296.36	280.54	266.30	253.58	242.80	234.17	227.21	221.04	215.38
18.00	DISCHG	209.91	204.15	198.02	191.40	184.54	178.19	172.74	168.24	164.74	162.14
20.00	DISCHG	159.71	156.77	153.60	150.61	147.73	144.42	140.41	136.66	134.39	133.43
22.00	DISCHG	132.53	131.01	129.37	127.92	126.35	123.97	120.54	117.14	115.07	114.22
24.00	DISCHG	113.35	111.81	108.25	99.57	85.90	70.55	55.31	40.82	28.12	18.21
26.00	DISCHG	11.30	6.81	4.04	2.36	1.36	.76	.41	.20	.07	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0800 CFS-HRS= 6391.72 ACRE-FT= 528.21

ENDCMP

PASS= 2

EXECUTIVE CONTROL CARD 62 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 3.25 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 2

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.41	1588.553	(RUNOFF)
21.76	70.482	(RUNOFF)
23.75	60.404	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.02	.23	.96	2.61	5.18
10.00	DISCHG	8.54	12.76	18.21	24.96	33.55	45.15	60.49	81.85	146.92	380.43
12.00	DISCHG	855.83	1385.23	1587.56	1436.86	1136.00	857.83	663.21	519.34	421.64	353.59
14.00	DISCHG	302.71	264.91	237.13	215.22	197.92	184.92	174.95	165.78	157.46	149.41
16.00	DISCHG	141.46	134.16	127.86	122.73	118.99	116.67	114.89	112.62	109.73	106.36
18.00	DISCHG	102.71	99.01	95.09	91.38	88.42	86.52	85.50	84.92	84.41	83.15
20.00	DISCHG	80.98	78.58	76.73	75.42	73.78	71.29	69.26	68.94	70.00	70.46
22.00	DISCHG	69.46	67.72	66.24	65.13	63.58	61.13	59.11	58.80	59.88	60.35
24.00	DISCHG	56.95	54.40	44.49	31.30	19.44	11.16	6.67	3.92	2.25	1.31
26.00	DISCHG	.75	.40	.20	.09	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5066 CFS-HRS= 3160.06 ACRE-FT= 261.15

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	209.233	(RUNOFF)
16.51	10.419	(RUNOFF)
19.33	7.748	(RUNOFF)
20.30	6.542	(RUNOFF)
21.50	6.798	(RUNOFF)
23.50	5.905	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.02	.33	1.18	2.21	4.24	6.99	20.94	113.30

28

12.00	DISCHG	206.31	168.56	83.32	61.23	40.18	33.16	28.55	24.64	23.36	20.09
14.00	DISCHG	18.98	17.73	16.56	16.16	15.08	14.72	13.92	13.14	12.77	11.67
16.00	DISCHG	11.28	10.83	10.42	10.35	10.36	10.38	10.01	9.61	9.43	8.85
18.00	DISCHG	8.65	8.22	7.80	7.71	7.70	7.71	7.73	7.74	7.65	7.07
20.00	DISCHG	6.86	6.83	6.83	6.72	6.15	5.94	6.31	6.75	6.74	6.19
22.00	DISCHG	5.97	5.93	5.93	5.82	5.23	5.02	5.39	5.83	5.83	5.26
24.00	DISCHG	5.01	2.91	.65	.14	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1879 CFS-HRS= 260.65 ACRE-FT= 21.54

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	1575.947	(NULL)
21.79	76.247	(NULL)
23.76	65.211	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.01	.09	.45	1.44	3.30
10.00	DISCHG	6.04	9.60	14.15	20.22	28.30	38.73	53.30	73.01	122.26	331.68
12.00	DISCHG	722.59	1153.49	1480.18	1571.98	1387.08	1105.86	851.47	662.16	526.61	430.43
14.00	DISCHG	363.53	313.68	276.55	249.18	227.02	210.26	197.00	186.17	176.79	167.37
16.00	DISCHG	158.91	150.72	143.28	137.20	132.42	129.03	126.37	123.95	121.32	117.76
18.00	DISCHG	114.15	110.09	105.90	101.99	98.50	95.83	94.13	93.17	92.47	91.12
20.00	DISCHG	89.42	87.23	85.05	83.23	81.17	79.06	77.18	76.12	76.09	76.25
22.00	DISCHG	76.04	74.90	73.33	71.85	69.97	67.95	66.10	65.07	65.05	65.20
24.00	DISCHG	64.84	60.46	52.19	41.21	28.73	17.97	10.61	6.30	3.69	2.14
26.00	DISCHG	1.24	.70	.38	.19	.08	.03	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4762 CFS-HRS= 3420.20 ACRE-FT= 282.65

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	495.095	(RUNOFF)
16.91	21.263	(RUNOFF)
19.32	15.712	(RUNOFF)
20.30	13.839	(RUNOFF)
21.48	13.768	(RUNOFF)
23.47	11.881	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.10	.61	1.41
10.00	DISCHG	2.24	3.55	5.05	6.69	9.92	12.36	18.79	25.90	69.55	313.64
12.00	DISCHG	494.74	344.01	163.95	123.14	79.55	68.13	57.86	50.51	47.89	40.93
14.00	DISCHG	39.05	36.16	33.94	33.14	30.77	30.16	28.31	26.81	26.10	23.63
16.00	DISCHG	22.99	21.99	21.22	21.11	21.13	21.16	20.26	19.50	19.11	17.88
18.00	DISCHG	17.55	16.55	15.76	15.63	15.63	15.65	15.67	15.69	15.43	14.20
20.00	DISCHG	13.86	13.81	13.81	13.56	12.30	11.96	12.87	13.69	13.61	12.35
22.00	DISCHG	12.01	11.96	11.96	11.69	10.41	10.07	10.99	11.82	11.69	10.46
24.00	DISCHG	10.11	5.08	.94	.16	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4396 CFS-HRS= 576.01 ACRE-FT= 47.60

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.62	1645.483	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.05	.39	1.60	3.85
10.00	DISCHG	6.99	11.47	17.06	24.06	34.43	46.17	65.25	89.65	169.17	550.16
12.00	DISCHG	1036.24	1292.88	1484.58	1643.59	1545.96	1304.97	1031.71	805.37	641.21	518.76
14.00	DISCHG	435.61	374.30	328.70	295.76	268.58	248.62	231.77	218.24	207.43	195.51
16.00	DISCHG	185.98	176.64	168.09	161.27	155.88	151.86	147.93	144.62	141.68	137.32
18.00	DISCHG	133.43	128.57	123.66	119.50	115.81	112.78	110.64	109.34	108.24	105.94
20.00	DISCHG	104.07	102.07	99.90	97.67	94.45	92.03	90.96	90.35	89.75	88.53
22.00	DISCHG	88.14	87.37	86.02	84.25	81.27	78.98	77.98	77.40	76.79	75.60
24.00	DISCHG	75.10	67.51	56.95	46.53	34.67	23.17	14.25	8.47	5.00	2.92
26.00	DISCHG	1.69	.97	.54	.29	.14	.05	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4706 CFS-HRS= 3995.59 ACRE-FT= 330.20

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	515.236	(RUNOFF)
19.32	17.896	(RUNOFF)
21.56	15.454	(RUNOFF)
23.56	13.290	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.03	.25	.74	1.35	2.06	2.93	3.80	4.87
10.00	DISCHG	5.98	7.46	9.56	11.62	15.17	18.83	24.58	33.86	64.14	249.08
12.00	DISCHG	479.78	496.44	301.45	193.19	131.75	95.60	78.28	64.92	58.80	52.02
14.00	DISCHG	47.15	44.17	40.86	39.14	37.01	35.40	33.95	31.88	30.67	28.67
16.00	DISCHG	27.07	26.05	24.92	24.41	24.27	24.24	23.78	22.82	22.24	21.21
18.00	DISCHG	20.39	19.63	18.56	18.07	17.91	17.87	17.87	17.89	17.77	16.89
20.00	DISCHG	16.12	15.85	15.77	15.62	14.72	13.95	14.17	15.09	15.44	14.69
22.00	DISCHG	13.96	13.71	13.63	13.47	12.57	11.78	12.00	12.93	13.27	12.53
24.00	DISCHG	11.74	8.97	3.81	1.26	.42	.13	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.6527 CFS-HRS= 703.96 ACRE-FT= 58.17

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.71	1743.214	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.03	.25	.74	1.35	2.08	3.10	4.61	7.21
10.00	DISCHG	10.81	15.86	22.74	30.81	42.50	56.77	76.87	106.63	181.46	554.45
12.00	DISCHG	1181.34	1586.91	1640.79	1719.15	1724.05	1557.10	1300.50	1035.71	823.40	662.81
14.00	DISCHG	546.29	464.77	403.88	359.80	325.70	299.03	278.14	260.14	246.12	232.64
16.00	DISCHG	220.06	209.41	199.19	190.72	184.15	179.11	174.54	169.86	166.06	161.52
18.00	DISCHG	156.62	151.59	145.72	140.61	136.41	132.89	130.13	128.24	126.83	124.38
20.00	DISCHG	121.56	119.35	117.20	114.88	111.38	107.77	106.02	105.93	105.62	104.04
22.00	DISCHG	102.45	101.61	100.56	98.94	95.85	92.44	90.82	90.81	90.50	88.92
24.00	DISCHG	87.25	81.27	67.96	55.21	43.44	31.54	20.90	12.91	7.73	4.56
26.00	DISCHG	2.66	1.54	.88	.49	.26	.12	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4948 CFS-HRS= 4698.03 ACRE-FT= 388.24

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.96	691.999	(RUNOFF)
16.90	25.181	(RUNOFF)
19.31	18.514	(RUNOFF)
20.30	16.285	(RUNOFF)
21.40	16.226	(RUNOFF)
22.30	14.080	(RUNOFF)
23.40	13.997	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.12	.65	1.34	2.01	2.97	3.86	4.84	6.16
10.00	DISCHG	7.16	9.85	11.77	14.53	19.69	22.35	35.15	42.91	151.17	515.15
12.00	DISCHG	681.11	296.29	162.17	131.69	84.39	79.55	63.73	59.00	55.29	46.97
14.00	DISCHG	46.15	41.41	39.94	38.73	35.93	35.67	32.48	31.47	30.24	27.35
16.00	DISCHG	27.06	25.44	24.93	24.92	24.96	24.99	23.36	22.85	22.21	20.75
18.00	DISCHG	20.61	18.92	18.40	18.37	18.39	18.41	18.43	18.45	17.84	16.36
20.00	DISCHG	16.20	16.20	16.21	15.61	14.10	13.96	15.65	16.23	15.67	14.16
22.00	DISCHG	14.00	14.00	14.01	13.39	11.87	11.72	13.42	14.00	13.43	11.91
24.00	DISCHG	11.75	3.04	.27	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.6276 CFS-HRS= 714.27 ACRE-FT= 59.03

SUBROUTINE REACH CROSS SECTION 108
LENGTH= 5000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.43

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.15	281.279	(RUNOFF)
19.34	11.831	(RUNOFF)
21.57	10.283	(RUNOFF)
23.57	8.880	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.01	.28	1.18	2.60	4.87	8.56	21.26	106.78
12.00	DISCHG	241.07	277.75	179.39	118.47	82.00	60.22	49.67	41.39	37.47	33.30
14.00	DISCHG	30.21	28.37	26.32	25.24	23.90	22.89	22.00	20.72	19.95	18.68
16.00	DISCHG	17.64	17.00	16.29	15.96	15.88	15.87	15.59	14.99	14.62	13.97
18.00	DISCHG	13.43	12.95	12.26	11.93	11.83	11.80	11.81	11.83	11.77	11.21
20.00	DISCHG	10.70	10.52	10.47	10.38	9.80	9.29	9.42	10.02	10.27	9.81
22.00	DISCHG	9.32	9.15	9.10	9.00	8.42	7.89	8.02	8.62	8.87	8.40
24.00	DISCHG	7.88	6.08	2.66	.90	.31	.10	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1885 CFS-HRS= 398.87 ACRE-FT= 32.96

SUBROUTINE ADDHYD CROSS SECTION 108
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	741.548	(NULL)
19.30	30.257	(NULL)

21.67	25.780	(NULL)
23.67	22.145	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.04	.26	.71	1.30	2.03	2.88	3.78
10.00	DISCHG	4.84	5.95	7.56	9.80	12.94	17.67	23.54	33.55	54.72	180.53
12.00	DISCHG	476.39	730.64	647.73	448.34	301.50	210.09	157.94	126.51	107.97	95.47
14.00	DISCHG	85.47	78.39	72.40	68.04	64.56	61.46	58.91	55.84	53.18	50.44
16.00	DISCHG	47.56	45.30	43.29	41.86	41.18	40.94	40.60	39.47	38.27	36.93
18.00	DISCHG	35.47	34.18	32.56	31.24	30.57	30.32	30.25	30.25	30.20	29.46
20.00	DISCHG	28.23	27.31	26.89	26.66	25.85	24.60	23.97	24.74	25.71	25.54
22.00	DISCHG	24.55	23.71	23.31	23.08	22.25	20.97	20.34	21.12	22.08	21.90
24.00	DISCHG	20.87	18.39	11.84	5.61	2.23	.81	.28	.09	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4445 CFS-HRS= 1118.67 ACRE-FT= 92.45

SUBROUTINE DIVERT CROSS SECTION 108
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.50	647.838	(NULL)
21.90	25.475	(NULL)
23.90	21.860	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.05	.24	.62	1.16	1.84	2.64
10.00	DISCHG	3.53	4.54	5.67	7.19	9.30	12.27	16.56	22.34	32.13	59.99
12.00	DISCHG	171.91	406.37	621.46	620.03	487.49	350.52	248.76	183.17	142.35	117.47
14.00	DISCHG	101.35	89.73	81.33	74.76	69.79	65.89	62.59	59.76	56.80	54.04
16.00	DISCHG	51.28	48.50	46.10	44.03	42.47	41.56	41.10	40.64	39.72	38.59
18.00	DISCHG	37.31	35.92	34.56	33.06	31.74	30.91	30.50	30.33	30.27	30.15
20.00	DISCHG	29.55	28.55	27.66	27.11	26.72	26.00	24.97	24.36	24.72	25.38
22.00	DISCHG	25.40	24.73	23.99	23.50	23.13	22.40	21.36	20.73	21.09	21.75
24.00	DISCHG	21.75	20.90	18.53	13.32	7.68	3.79	1.69	.70	.28	.11
26.00	DISCHG	.04	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4420 CFS-HRS= 1116.72 ACRE-FT= 92.29

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	735.090	(RUNOFF)
21.63	24.857	(RUNOFF)
23.63	21.320	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.07	.43	1.17	2.24	3.49	4.95
10.00	DISCHG	6.60	8.60	11.31	14.43	18.78	24.19	31.57	43.21	79.29	261.57
12.00	DISCHG	573.86	734.97	589.56	395.42	275.74	196.85	152.07	123.30	104.88	91.77
14.00	DISCHG	81.69	75.19	69.57	65.55	62.18	59.11	56.63	53.59	51.10	48.35
16.00	DISCHG	45.48	43.48	41.60	40.32	39.78	39.59	39.12	37.86	36.74	35.40
18.00	DISCHG	33.95	32.73	31.15	29.97	29.45	29.25	29.17	29.16	29.05	28.16
20.00	DISCHG	26.91	26.18	25.88	25.63	24.67	23.41	23.11	24.04	24.85	24.39
22.00	DISCHG	23.33	22.67	22.39	22.13	21.18	19.91	19.62	20.53	21.31	20.85
24.00	DISCHG	19.67	16.61	10.15	4.66	2.04	.88	.37	.15	.05	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5765 CFS-HRS= 1119.20 ACRE-FT= 92.49

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 6500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.33

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	370.769	(RUNOFF)
21.65	15.357	(RUNOFF)
23.65	13.204	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.02	.23	1.05	2.69	5.35	9.66	24.28	96.27
12.00	DISCHG	247.84	366.42	322.87	231.43	166.32	121.81	93.93	76.44	65.01	56.78
14.00	DISCHG	50.14	45.82	42.48	39.92	37.87	36.04	34.52	32.80	31.24	29.65
16.00	DISCHG	27.98	26.69	25.57	24.76	24.37	24.20	23.93	23.30	22.63	21.85
18.00	DISCHG	20.99	20.21	19.33	18.58	18.20	18.04	17.99	17.98	17.90	17.46
20.00	DISCHG	16.75	16.26	16.04	15.88	15.37	14.64	14.37	14.82	15.34	15.16
22.00	DISCHG	14.57	14.14	13.94	13.78	13.27	12.51	12.23	12.70	13.18	13.03
24.00	DISCHG	12.38	10.74	7.00	3.52	1.65	.77	.35	.16	.06	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1880 CFS-HRS= 605.68 ACRE-FT= 50.05

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.45	931.130	(NULL)
21.81	39.489	(NULL)
23.80	33.830	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.89

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.04	.24	.74	1.57	2.67
10.00	DISCHG	3.98	5.49	7.29	9.79	13.41	18.68	26.02	36.50	60.24	155.05
12.00	DISCHG	410.12	752.93	924.93	860.87	673.00	488.94	355.49	268.56	213.61	177.77
14.00	DISCHG	152.88	135.58	123.14	113.81	106.63	100.80	95.89	91.30	86.89	82.58
16.00	DISCHG	78.23	74.15	70.61	67.74	65.71	64.53	63.76	62.72	61.22	59.36
18.00	DISCHG	57.29	55.14	52.95	50.78	49.05	47.99	47.47	47.25	47.10	46.57
20.00	DISCHG	45.39	43.94	42.81	42.07	41.20	39.86	38.58	38.29	39.00	39.49
22.00	DISCHG	39.06	38.04	37.10	36.44	35.60	34.23	32.94	32.68	33.34	33.83
24.00	DISCHG	33.34	31.05	25.36	17.46	10.14	5.17	2.45	1.11	.48	.19
26.00	DISCHG	.07	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4134 CFS-HRS= 1724.00 ACRE-FT= 142.47

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	1575.010	(NULL)
21.85	64.915	(NULL)
23.84	55.616	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.05	.27	.85	1.89	3.42	5.31
10.00	DISCHG	7.51	10.04	12.96	16.98	22.71	30.95	42.57	58.84	92.37	215.05
12.00	DISCHG	582.03	1159.30	1546.39	1480.50	1160.49	839.46	604.25	451.74	355.96	295.23
14.00	DISCHG	254.23	225.30	204.48	188.57	176.43	166.69	158.49	151.06	143.69	136.62
16.00	DISCHG	129.51	122.65	116.70	111.76	108.18	106.09	104.86	103.36	100.93	97.95
18.00	DISCHG	94.59	91.06	87.51	83.84	80.79	78.90	77.96	77.58	77.37	76.72

20.00	DISCHG	74.94	72.49	70.46	69.17	67.93	65.86	63.55	62.65	63.71	64.87
22.00	DISCHG	64.45	62.77	61.09	59.94	58.73	56.63	54.29	53.41	54.43	55.58
24.00	DISCHG	55.09	51.96	43.89	30.77	17.82	8.96	4.14	1.81	.76	.30
26.00	DISCHG	.10	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4245 CFS-HRS= 2840.71 ACRE-FT= 234.76

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	1102.136	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	124.19	572.23	1011.64	1093.25	863.08	547.92	285.80	105.32	19.81	1.24
14.00	DISCHG	.08	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4643 CFS-HRS= 925.94 ACRE-FT= 76.52

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.87	600.320	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2592 CFS-HRS= 516.98 ACRE-FT= 42.72

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	71.894	(RUNOFF)
16.92	7.616	(RUNOFF)
19.40	5.941	(RUNOFF)
21.40	5.155	(RUNOFF)
23.59	4.503	(RUNOFF)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= .43		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.03	4.67
12.00	DISCHG	35.96	70.43	59.11	43.79	33.63	25.80	21.76	18.55	16.64	15.04
14.00	DISCHG	13.71	12.90	12.06	11.57	11.06	10.62	10.27	9.74	9.39	8.88
16.00	DISCHG	8.40	8.11	7.80	7.63	7.60	7.61	7.52	7.28	7.10	6.84
18.00	DISCHG	6.58	6.37	6.05	5.87	5.82	5.81	5.82	5.84	5.82	5.61
20.00	DISCHG	5.36	5.26	5.23	5.19	4.96	4.69	4.72	4.99	5.15	4.98
22.00	DISCHG	4.75	4.65	4.62	4.57	4.33	4.06	4.08	4.35	4.50	4.33
24.00	DISCHG	4.08	3.31	1.67	.63	.24	.09	.03	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5026 CFS-HRS= 139.46 ACRE-FT= 11.53

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.86	631.052	(NULL)
16.92	7.616	(NULL)
19.40	5.841	(NULL)
21.60	5.155	(NULL)
23.59	4.503	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= 3.52		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.03	4.67
12.00	DISCHG	35.96	83.51	216.18	467.73	621.63	586.85	422.43	229.23	127.42	73.30
14.00	DISCHG	44.34	29.00	20.53	16.02	13.40	11.85	10.92	10.08	9.57	8.98
16.00	DISCHG	8.45	8.13	7.81	7.63	7.60	7.61	7.52	7.28	7.10	6.84
18.00	DISCHG	6.58	6.37	6.05	5.87	5.82	5.81	5.82	5.84	5.82	5.61
20.00	DISCHG	5.36	5.26	5.23	5.19	4.96	4.69	4.72	4.99	5.15	4.98
22.00	DISCHG	4.75	4.65	4.62	4.57	4.33	4.06	4.08	4.35	4.50	4.33
24.00	DISCHG	4.08	3.31	1.67	.63	.24	.09	.03	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2890 CFS-HRS= 656.45 ACRE-FT= 54.25

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.90	701.801	(NULL)
21.85	64.915	(NULL)
23.84	55.616	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= .00		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.05	.27	.85	1.89	3.42	5.31
10.00	DISCHG	7.51	10.04	12.96	16.98	22.71	30.95	42.57	58.84	92.37	215.05
12.00	DISCHG	524.19	700.00	700.00	700.00	700.00	700.00	685.80	505.32	375.77	296.48
14.00	DISCHG	254.30	225.30	204.48	188.57	176.43	166.69	158.49	151.06	143.69	136.62
16.00	DISCHG	129.51	122.65	116.70	111.76	108.18	106.09	104.86	103.36	100.93	97.95
18.00	DISCHG	94.59	91.06	87.51	83.84	80.79	78.90	77.96	77.58	77.37	76.72
20.00	DISCHG	74.94	72.49	70.46	69.17	67.93	65.86	63.55	62.65	63.71	64.87
22.00	DISCHG	64.45	62.77	61.09	59.94	58.73	56.63	54.29	53.41	54.43	55.58
24.00	DISCHG	55.09	51.96	43.89	30.77	17.82	8.96	4.14	1.81	.76	.30
26.00	DISCHG	.10	.02	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 2318.98 ACRE-FT= 191.64

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.40	356.742	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	18.00	90.51	210.35	317.06	356.73	317.81	233.60
14.00	DISCHG	150.17	89.75	51.72	29.22	16.33	9.07	5.01	2.77	1.52	.84
16.00	DISCHG	.46	.25	.14	.08	.04	.02	.01	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1674 CFS-HRS= 380.28 ACRE-FT= 31.43

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.90	811.806	(NULL)
21.82	69.865	(NULL)
23.81	59.917	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.05	.27	.85	1.89	3.42	5.31
10.00	DISCHG	7.51	10.04	12.96	16.98	22.71	30.95	42.57	58.84	92.40	219.71
12.00	DISCHG	560.15	783.51	810.00	810.00	810.00	810.00	795.80	615.32	485.77	369.77
14.00	DISCHG	298.64	254.31	225.00	204.60	189.83	178.54	169.40	161.14	153.25	145.60
16.00	DISCHG	137.97	130.79	124.52	119.40	115.78	113.70	112.38	110.64	108.03	104.79
18.00	DISCHG	101.17	97.43	93.56	89.71	86.61	84.72	83.79	83.42	83.19	82.33
20.00	DISCHG	80.30	77.75	75.69	74.37	72.88	70.55	68.26	67.64	68.87	69.86
22.00	DISCHG	69.20	67.42	65.71	64.51	63.06	60.69	58.37	57.76	58.93	59.91
24.00	DISCHG	59.17	55.27	45.56	31.40	18.07	9.05	4.17	1.82	.76	.30
26.00	DISCHG	.10	.02	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 2594.72 ACRE-FT= 214.43

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.53

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.97	159.507	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	.00	.00	.00	11.81	49.99	103.96	147.04
14.00	DISCHG	159.21	138.26	99.97	64.19	38.85	22.74	13.03	7.37	4.13	2.30
16.00	DISCHG	1.28	.71	.39	.22	.12	.07	.04	.02	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0762 CFS-HRS= 173.15 ACRE-FT= 14.31

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.50	56.263	(RUNOFF)
21.76	5.383	(RUNOFF)
23.74	4.684	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.89
12.00	DISCHG	15.53	39.19	54.39	54.31	46.00	37.29	30.52	25.55	21.98	19.35
14.00	DISCHG	17.26	15.69	14.42	13.42	12.68	12.08	11.58	11.07	10.59	10.11
16.00	DISCHG	9.62	9.18	8.80	8.51	8.31	8.22	8.15	8.01	7.83	7.61
18.00	DISCHG	7.35	7.10	6.83	6.58	6.41	6.31	6.27	6.26	6.24	6.15
20.00	DISCHG	5.98	5.81	5.70	5.62	5.50	5.31	5.17	5.20	5.33	5.38
22.00	DISCHG	5.27	5.12	5.03	4.96	4.84	4.63	4.48	4.52	4.65	4.68
24.00	DISCHG	4.55	4.13	3.21	2.08	1.18	.64	.36	.19	.11	.06
26.00	DISCHG	.03	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5015 CFS-HRS= 148.89 ACRE-FT= 12.30

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.50	56.263	(NULL)
13.96	177.074	(NULL)
21.76	5.383	(NULL)
23.74	4.684	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.89
12.00	DISCHG	15.53	39.19	54.39	54.31	46.00	37.29	42.32	75.54	125.93	166.40
14.00	DISCHG	176.47	153.95	114.39	77.62	51.55	34.81	24.61	18.44	14.72	12.41
16.00	DISCHG	10.90	9.89	9.19	8.72	8.43	8.29	8.19	8.03	7.84	7.61
18.00	DISCHG	7.35	7.10	6.83	6.58	6.41	6.31	6.27	6.26	6.24	6.15
20.00	DISCHG	5.98	5.81	5.70	5.62	5.50	5.31	5.17	5.20	5.33	5.38
22.00	DISCHG	5.27	5.12	5.03	4.96	4.84	4.63	4.48	4.52	4.65	4.68
24.00	DISCHG	4.55	4.13	3.21	2.08	1.18	.64	.36	.19	.11	.06
26.00	DISCHG	.03	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1254 CFS-HRS= 322.04 ACRE-FT= 26.61

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.04	930.704	(NULL)
21.82	69.865	(NULL)
23.81	59.917	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

8.00	DISCHG	.00	.00	.00	.00	.05	.27	.85	1.89	3.42	5.31
10.00	DISCHG	7.51	10.04	12.96	16.98	22.71	30.95	42.57	58.84	92.40	219.71
12.00	DISCHG	560.15	783.51	810.00	828.00	900.51	930.00	915.80	735.32	605.77	489.77
14.00	DISCHG	418.64	344.05	276.72	233.82	206.16	187.61	174.42	163.91	154.78	146.44
16.00	DISCHG	138.43	131.04	124.66	119.48	115.82	113.72	112.39	110.65	108.03	104.79
18.00	DISCHG	101.17	97.43	93.56	89.71	86.61	84.72	83.79	83.42	83.19	82.33
20.00	DISCHG	80.30	77.75	75.69	74.37	72.88	70.55	68.26	67.64	68.87	69.86
22.00	DISCHG	69.20	67.42	65.71	64.51	63.06	60.69	58.37	57.76	58.93	59.91
24.00	DISCHG	59.17	55.27	45.56	31.40	18.07	9.05	4.17	1.82	.76	.30
26.00	DISCHG	.10	.02	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 2800.83 ACRE-FT= 231.46

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 710
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.06	38.685	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	19.19
14.00	DISCHG	37.74	32.58	13.31	3.07	.71	.16	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0084 CFS-HRS= 21.58 ACRE-FT= 1.78

SUBROUTINE ADDHYD CROSS SECTION 711
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.04	967.895	(NULL)
21.81	75.242	(NULL)
23.81	64.590	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.05	.27	.85	1.89	3.42	5.31

10.00	DISCHG	7.51	10.04	12.96	16.98	22.71	30.95	42.57	58.84	92.45	221.61
12.00	DISCHG	575.68	822.69	864.39	882.31	946.51	967.29	958.12	810.86	731.70	619.77
14.00	DISCHG	548.64	474.05	391.11	311.44	257.69	222.42	199.03	182.35	169.50	158.85
16.00	DISCHG	149.32	140.93	133.84	128.20	124.25	122.01	120.58	118.68	115.87	112.39
18.00	DISCHG	108.53	104.53	100.39	96.29	93.02	91.03	90.06	89.68	89.43	88.48
20.00	DISCHG	86.28	83.56	81.39	79.99	78.39	75.86	73.44	72.84	74.20	75.24
22.00	DISCHG	74.47	72.54	70.73	69.47	67.90	65.32	62.86	62.28	63.58	64.59
24.00	DISCHG	63.72	59.40	48.77	33.48	19.24	9.69	4.53	2.01	.86	.36
26.00	DISCHG	.13	.03	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 3100.57 ACRE-FT= 256.23

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	25.735	(RUNOFF)
16.91	1.227	(RUNOFF)
19.32	.912	(RUNOFF)
20.31	.805	(RUNOFF)
21.49	.804	(RUNOFF)
22.30	.700	(RUNOFF)
23.47	.694	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.15	.27	.53	.86	2.78	14.75
12.00	DISCHG	25.64	18.52	9.00	6.86	4.46	3.84	3.27	2.86	2.72	2.33
14.00	DISCHG	2.22	2.06	1.94	1.89	1.76	1.73	1.62	1.54	1.50	1.36
16.00	DISCHG	1.32	1.27	1.22	1.22	1.22	1.22	1.17	1.13	1.10	1.03
18.00	DISCHG	1.02	.96	.91	.91	.91	.91	.91	.91	.90	.83
20.00	DISCHG	.81	.80	.80	.79	.72	.70	.75	.80	.79	.72
22.00	DISCHG	.70	.70	.70	.68	.61	.59	.64	.69	.68	.61
24.00	DISCHG	.59	.30	.05	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1851 CFS-HRS= 30.59 ACRE-FT= 2.53

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	25.735	(NULL)
16.91	1.227	(NULL)

19.32	.912	(NULL)
20.31	.805	(NULL)
21.49	.804	(NULL)
22.30	.700	(NULL)
23.47	.694	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.15	.27	.53	.86	2.78	14.75
12.00	DISCHG	25.64	18.52	9.00	6.86	4.46	3.84	3.27	2.86	2.72	2.33
14.00	DISCHG	2.22	2.06	1.94	1.89	1.76	1.73	1.62	1.54	1.50	1.36
16.00	DISCHG	1.32	1.27	1.22	1.22	1.22	1.22	1.17	1.13	1.10	1.03
18.00	DISCHG	1.02	.96	.91	.91	.91	.91	.91	.91	.90	.83
20.00	DISCHG	.81	.80	.80	.79	.72	.70	.75	.80	.79	.72
22.00	DISCHG	.70	.70	.70	.68	.61	.59	.64	.69	.68	.61
24.00	DISCHG	.59	.30	.05	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.97	12.406	(NULL)
22.13	.764	(NULL)
24.13	.656	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.02	.05	.12	.24
12.00	DISCHG	.52	1.82	5.12	9.26	11.90	12.39	11.44	9.83	8.13	6.62
14.00	DISCHG	5.40	4.46	3.75	3.22	2.82	2.52	2.30	2.12	1.98	1.87
16.00	DISCHG	1.77	1.67	1.58	1.50	1.43	1.37	1.32	1.28	1.26	1.23
18.00	DISCHG	1.20	1.17	1.13	1.10	1.06	1.02	.98	.96	.94	.93
20.00	DISCHG	.92	.91	.89	.87	.85	.83	.81	.79	.77	.76
22.00	DISCHG	.76	.76	.76	.74	.73	.72	.70	.68	.66	.65
24.00	DISCHG	.65	.66	.65	.62	.54	.42	.31	.21	.14	.09
26.00	DISCHG	.05	.03	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1835 CFS-HRS= 30.55 ACRE-FT= 2.52

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	100.488	(RUNOFF)
21.79	5.360	(RUNOFF)

23.76 4.600 (RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.19	.52	1.11	2.07	5.48	18.02
12.00	DISCHG	45.52	79.83	99.21	95.27	79.40	61.80	48.51	38.93	31.82	26.72
14.00	DISCHG	22.88	20.10	17.98	16.33	15.02	13.96	13.17	12.49	11.86	11.27
16.00	DISCHG	10.67	10.14	9.66	9.26	8.98	8.80	8.66	8.49	8.29	8.05
18.00	DISCHG	7.78	7.51	7.22	6.95	6.73	6.57	6.48	6.43	6.39	6.31
20.00	DISCHG	6.16	5.99	5.84	5.74	5.62	5.44	5.29	5.25	5.31	5.36
22.00	DISCHG	5.30	5.17	5.06	4.97	4.87	4.69	4.54	4.50	4.56	4.60
24.00	DISCHG	4.51	4.18	3.50	2.55	1.66	1.01	.60	.36	.22	.13
26.00	DISCHG	.08	.04	.02	.01	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1863 CFS-HRS= 214.37 ACRE-FT= 17.72

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.50	106.117	(NULL)
21.78	6.120	(NULL)
23.75	5.253	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.19	.52	1.13	2.12	5.60	18.26
12.00	DISCHG	46.04	81.65	104.33	104.53	91.29	74.19	59.96	48.75	39.95	33.34
14.00	DISCHG	28.28	24.57	21.73	19.55	17.84	16.48	15.46	14.61	13.84	13.13
16.00	DISCHG	12.44	11.81	11.24	10.76	10.41	10.16	9.97	9.78	9.55	9.28
18.00	DISCHG	8.98	8.68	8.36	8.04	7.78	7.59	7.47	7.39	7.33	7.24
20.00	DISCHG	7.08	6.89	6.73	6.61	6.47	6.27	6.10	6.04	6.08	6.12
22.00	DISCHG	6.06	5.94	5.82	5.72	5.60	5.41	5.24	5.18	5.22	5.25
24.00	DISCHG	5.16	4.84	4.14	3.16	2.19	1.43	.91	.57	.36	.22
26.00	DISCHG	.13	.08	.04	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1860 CFS-HRS= 244.93 ACRE-FT= 20.24

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 5400.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .44

PEAK TIMES 12.76 | PEAK DISCHARGES 1724.014 | PEAK ELEVATIONS (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.02	.15	.52	1.07	1.75	2.64	3.93	6.03
10.00	DISCHG	9.18	13.57	19.62	27.14	37.20	50.28	67.75	93.13	147.65	386.43
12.00	DISCHG	897.36	1400.68	1613.92	1683.57	1721.34	1632.05	1416.83	1156.31	920.49	736.33
14.00	DISCHG	599.68	502.15	431.76	380.00	341.31	311.23	287.70	268.36	252.53	238.79
16.00	DISCHG	225.80	214.28	203.85	194.59	187.16	181.42	176.63	171.99	167.80	163.59
18.00	DISCHG	158.85	153.88	148.39	142.94	138.33	134.50	131.39	129.11	127.48	125.49
20.00	DISCHG	122.84	120.36	118.18	115.94	112.97	109.41	106.83	105.98	105.76	104.75
22.00	DISCHG	103.17	102.00	101.04	99.68	97.25	93.99	91.57	90.83	90.64	89.63
24.00	DISCHG	88.01	83.97	73.98	61.02	48.81	36.96	25.76	16.57	10.11	6.02
26.00	DISCHG	3.54	2.06	1.19	.67	.36	.18	.08	.00		

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES 12.74 | PEAK DISCHARGES 1819.096 | PEAK ELEVATIONS (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.02	.15	.52	1.07	1.75	2.64	3.93	6.03
10.00	DISCHG	9.18	13.57	19.62	27.18	37.38	50.80	68.88	95.25	153.26	404.68
12.00	DISCHG	943.40	1482.33	1718.25	1788.10	1812.63	1706.24	1476.79	1205.07	960.44	769.67
14.00	DISCHG	627.96	526.72	453.49	399.55	359.15	327.71	303.16	282.97	266.38	251.92
16.00	DISCHG	238.24	226.09	215.09	205.36	197.57	191.58	186.60	181.77	177.35	172.86
18.00	DISCHG	167.84	162.56	156.75	150.99	146.11	142.09	138.86	136.50	134.81	132.72
20.00	DISCHG	129.92	127.25	124.91	122.54	119.43	115.69	112.93	112.02	111.84	110.87
22.00	DISCHG	109.23	107.93	106.86	105.39	102.85	99.40	96.82	96.01	95.86	94.88
24.00	DISCHG	93.18	88.81	78.12	64.19	51.00	38.39	26.67	17.14	10.47	6.24
26.00	DISCHG	3.67	2.14	1.23	.69	.37	.18	.08	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4752 CFS-HRS= 4941.16 ACRE-FT= 408.34

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES 13.04 | PEAK DISCHARGES 1781.747 | PEAK ELEVATIONS (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

HS

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.01	.09	.33	.76	1.34	2.11	3.17
10.00	DISCHG	4.83	7.36	11.00	16.05	22.64	31.32	42.80	58.15	79.85	121.50
12.00	DISCHG	276.10	652.03	1148.48	1518.73	1703.36	1779.27	1748.66	1597.79	1366.67	1119.48
14.00	DISCHG	902.16	730.02	601.52	507.83	439.38	388.76	350.40	320.76	297.18	277.99
16.00	DISCHG	261.84	247.35	234.26	222.47	211.92	202.99	195.85	190.09	184.98	180.29
18.00	DISCHG	175.77	171.00	165.91	160.40	154.69	149.40	144.86	141.12	138.21	136.06
20.00	DISCHG	134.04	131.60	128.96	126.48	124.08	121.32	117.97	114.84	112.95	112.17
22.00	DISCHG	111.42	110.16	108.80	107.59	106.28	104.30	101.43	98.58	96.85	96.14
24.00	DISCHG	95.42	94.13	91.15	83.85	72.35	59.43	46.61	34.41	23.70	15.36
26.00	DISCHG	9.52	5.75	3.40	1.99	1.15	.64	.34	.17	.06	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4751 CFS-HRS= 4940.90 ACRE-FT= 408.32

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.04	1781.747	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.01	.09	.33	.76	1.34	2.11	3.17
10.00	DISCHG	4.83	7.36	11.00	16.05	22.64	31.32	42.80	58.15	79.85	121.50
12.00	DISCHG	276.10	652.03	1148.48	1518.73	1703.36	1779.27	1748.66	1597.79	1366.67	1138.68
14.00	DISCHG	939.90	762.60	614.83	510.90	440.09	388.92	350.43	320.76	297.18	277.99
16.00	DISCHG	261.84	247.35	234.26	222.47	211.92	202.99	195.85	190.09	184.98	180.29
18.00	DISCHG	175.77	171.00	165.91	160.40	154.69	149.40	144.86	141.12	138.21	136.06
20.00	DISCHG	134.04	131.60	128.96	126.48	124.08	121.32	117.97	114.84	112.95	112.17
22.00	DISCHG	111.42	110.16	108.80	107.59	106.28	104.30	101.43	98.58	96.85	96.14
24.00	DISCHG	95.42	94.13	91.15	83.85	72.35	59.43	46.61	34.41	23.70	15.36
26.00	DISCHG	9.52	5.75	3.40	1.99	1.15	.64	.34	.17	.06	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8385 CFS-HRS= 4962.47 ACRE-FT= 410.10

ENDCMP

PASS= 3

EXECUTIVE CONTROL CARD 64 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 2.80 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 3

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	1203.543	(RUNOFF)
21.76	57.343	(RUNOFF)
23.75	49.226	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
10.00	DISCHG	.45	1.63	4.09	7.83	13.10	20.64	30.95	45.57	91.34	261.56
12.00	DISCHG	619.13	1030.67	1201.30	1099.94	877.55	666.93	518.71	408.43	333.20	280.54
14.00	DISCHG	241.00	211.50	189.76	172.59	158.98	148.69	140.79	133.50	126.88	120.46
16.00	DISCHG	114.11	108.28	103.24	99.14	96.16	94.33	92.93	91.12	88.81	86.12
18.00	DISCHG	83.19	80.21	77.07	74.08	71.70	70.18	69.37	68.91	68.52	67.51
20.00	DISCHG	65.77	63.83	62.34	61.29	59.97	57.96	56.32	56.07	56.94	57.33
22.00	DISCHG	56.52	55.12	53.92	53.02	51.77	49.79	48.15	47.91	48.79	49.18
24.00	DISCHG	48.05	44.34	36.27	25.52	15.85	9.10	5.44	3.19	1.83	1.07
26.00	DISCHG	.61	.33	.17	.07	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1603 CFS-HRS= 2433.62 ACRE-FT= 201.11

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	151.386	(RUNOFF)
16.91	8.215	(RUNOFF)
19.33	6.137	(RUNOFF)
20.30	5.427	(RUNOFF)
21.50	5.411	(RUNOFF)
23.50	4.702	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.84	2.48	11.04	73.77

12.00	DISCHG	147.96	125.26	62.93	46.85	30.94	25.64	22.13	19.13	18.17	15.65
14.00	DISCHG	14.81	13.85	12.95	12.64	11.81	11.54	10.92	10.31	10.03	9.18
16.00	DISCHG	8.87	8.52	8.21	8.16	8.17	8.19	7.90	7.59	7.44	6.99
18.00	DISCHG	6.84	6.50	6.17	6.10	6.10	6.11	6.12	6.13	6.06	5.61
20.00	DISCHG	5.44	5.42	5.42	5.34	4.88	4.72	5.01	5.36	5.35	4.92
22.00	DISCHG	4.75	4.72	4.72	4.63	4.16	4.00	4.29	4.64	4.64	4.19
24.00	DISCHG	3.99	2.31	.52	.11	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8828 CFS-HRS= 193.70 ACRE-FT= 16.01

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	1193.662	(NULL)
21.00	61.911	(NULL)
23.77	53.040	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10.00	DISCHG	.19	.81	2.34	5.09	9.20	15.12	24.14	37.24	70.36	217.37
12.00	DISCHG	512.25	846.02	1107.26	1192.49	1063.14	854.55	662.24	518.01	414.14	340.05
14.00	DISCHG	288.28	249.54	220.58	199.17	181.81	168.62	158.15	149.57	142.13	134.64
16.00	DISCHG	127.91	121.38	115.44	110.59	106.77	104.08	101.98	100.07	97.99	95.15
18.00	DISCHG	92.26	89.01	85.65	82.51	79.71	77.57	76.21	75.45	74.90	73.83
20.00	DISCHG	72.47	70.71	68.96	67.50	65.85	64.15	62.63	61.77	61.76	61.91
22.00	DISCHG	61.76	60.84	59.58	58.38	56.87	55.24	53.74	52.90	52.90	53.03
24.00	DISCHG	52.75	49.23	42.53	33.60	23.43	14.65	8.65	5.14	3.01	1.74
26.00	DISCHG	1.01	.57	.31	.16	.07	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1338 CFS-HRS= 2626.97 ACRE-FT= 217.09

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	374.126	(RUNOFF)
16.91	17.121	(RUNOFF)
19.32	12.698	(RUNOFF)
20.31	11.197	(RUNOFF)
21.48	11.153	(RUNOFF)
22.30	9.720	(RUNOFF)
23.47	9.641	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME

48

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.01	.35	1.22	2.35	4.33	6.14	10.35	15.33	45.32	223.57
12.00	DISCHG	373.26	265.57	128.06	97.03	62.94	54.04	45.98	40.20	38.16	32.65
14.00	DISCHG	31.18	28.90	27.15	26.53	24.65	24.18	22.70	21.51	20.95	18.98
16.00	DISCHG	18.47	17.68	17.07	16.99	17.01	17.04	16.32	15.72	15.40	14.42
18.00	DISCHG	14.16	13.36	12.72	12.62	12.62	12.64	12.66	12.68	12.47	11.48
20.00	DISCHG	11.21	11.17	11.17	10.97	9.95	9.69	10.42	11.09	11.02	10.01
22.00	DISCHG	9.74	9.69	9.69	9.48	8.45	8.17	8.92	9.59	9.49	8.49
24.00	DISCHG	8.20	4.12	.76	.13	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1008 CFS-HRS= 440.45 ACRE-FT= 36.40

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.64	1246.458	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.12	.88	2.85	6.16	11.61	18.49	30.27	46.44	100.46	374.19
12.00	DISCHG	749.24	953.36	1108.10	1243.06	1180.89	1005.49	800.60	628.78	503.39	409.19
14.00	DISCHG	345.01	297.44	261.93	236.21	214.91	199.25	185.96	175.25	166.68	157.21
16.00	DISCHG	149.63	142.19	135.37	129.94	125.64	122.45	119.33	116.71	114.38	110.90
18.00	DISCHG	107.80	103.91	99.98	96.64	93.68	91.25	89.54	88.51	87.64	85.81
20.00	DISCHG	84.32	82.71	80.97	79.18	76.59	74.65	73.79	73.30	72.82	71.85
22.00	DISCHG	71.56	70.95	69.86	68.44	66.03	64.19	63.38	62.91	62.41	61.47
24.00	DISCHG	61.08	54.93	46.39	37.93	28.26	18.89	11.62	6.91	4.08	2.38
26.00	DISCHG	1.38	.79	.44	.23	.11	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1288 CFS-HRS= 3067.06 ACRE-FT= 253.46

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 93.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	399.431	(RUNOFF)
19.32	14.661	(RUNOFF)
21.56	12.686	(RUNOFF)
23.56	10.935	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.07	.40	.95	1.66
10.00	DISCHG	2.46	3.49	4.90	6.39	8.83	11.47	15.61	22.27	44.37	182.85
12.00	DISCHG	366.02	387.38	237.65	153.68	105.45	76.86	63.15	52.47	47.59	42.14
14.00	DISCHG	38.23	35.84	33.18	31.81	30.09	28.80	27.63	25.96	24.99	23.37
16.00	DISCHG	22.07	21.25	20.33	19.93	19.82	19.80	19.43	18.65	18.18	17.34
18.00	DISCHG	16.68	16.06	15.19	14.79	14.67	14.64	14.64	14.65	14.56	13.85
20.00	DISCHG	13.21	13.00	12.93	12.81	12.08	11.45	11.63	12.39	12.67	12.06
22.00	DISCHG	11.47	11.26	11.20	11.06	10.32	9.68	9.87	10.63	10.91	10.30
24.00	DISCHG	9.65	7.37	3.13	1.04	.34	.11	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2891 CFS-HRS= 549.08 ACRE-FT= 45.38

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.72	1322.746	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.07	.40	.95	1.67
10.00	DISCHG	2.51	3.88	6.46	10.32	16.76	25.20	37.92	57.60	109.64	381.43
12.00	DISCHG	858.69	1180.95	1228.96	1297.71	1312.82	1195.37	1006.04	806.53	645.08	522.03
14.00	DISCHG	432.24	369.17	321.81	287.44	260.75	239.82	223.38	209.13	198.02	187.30
16.00	DISCHG	177.28	168.79	160.64	153.88	148.65	144.64	141.01	137.28	134.26	130.63
18.00	DISCHG	126.72	122.69	117.97	113.87	110.50	107.68	105.48	103.97	102.85	100.88
20.00	DISCHG	98.62	96.85	95.14	93.27	90.44	87.53	86.13	86.08	85.84	84.56
22.00	DISCHG	83.29	82.63	81.79	80.48	77.98	75.22	73.92	73.92	73.68	72.40
24.00	DISCHG	71.05	66.19	55.35	44.99	35.41	25.72	17.04	10.53	6.30	3.72
26.00	DISCHG	2.17	1.26	.72	.40	.21	.08	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1503 CFS-HRS= 3615.30 ACRE-FT= 298.77

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.97	539.425	(RUNOFF)
16.90	20.571	(RUNOFF)
19.31	15.170	(RUNOFF)
20.31	13.356	(RUNOFF)
21.40	13.320	(RUNOFF)
22.30	11.567	(RUNOFF)

23.40 11.507 (RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.27	.89	1.60	2.50
10.00	DISCHG	3.30	5.00	6.42	8.39	11.93	14.07	22.96	28.93	107.06	387.32
12.00	DISCHG	532.89	235.25	129.89	105.92	68.03	64.23	51.52	47.75	44.80	38.09
14.00	DISCHG	37.45	33.62	32.46	31.49	29.23	29.03	26.45	25.64	24.65	22.30
16.00	DISCHG	22.07	20.76	20.35	20.35	20.38	20.42	19.09	18.68	18.16	16.97
18.00	DISCHG	16.86	15.48	15.06	15.04	15.06	15.08	15.10	15.11	14.62	13.41
20.00	DISCHG	13.28	13.29	13.30	12.80	11.57	11.46	12.84	13.32	12.87	11.63
22.00	DISCHG	11.50	11.50	11.51	11.00	9.75	9.63	11.03	11.51	11.04	9.79
24.00	DISCHG	9.66	2.50	.22	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2689 CFS-HRS= 556.88 ACRE-FT= 46.02

SUBROUTINE REACH CROSS SECTION 108
LENGTH= 5000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.43

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.17	204.224	(RUNOFF)
19.35	9.370	(RUNOFF)
21.57	8.169	(RUNOFF)
23.57	7.071	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.71	2.58	10.48	67.25
12.00	DISCHG	168.09	202.78	133.46	89.47	62.57	46.29	38.38	32.09	29.11	25.92
14.00	DISCHG	23.55	22.13	20.56	19.73	18.71	17.93	17.25	16.26	15.67	14.68
16.00	DISCHG	13.87	13.37	12.82	12.57	12.51	12.51	12.30	11.83	11.54	11.03
18.00	DISCHG	10.61	10.24	9.70	9.43	9.36	9.34	9.35	9.37	9.32	8.88
20.00	DISCHG	8.48	8.34	8.30	8.23	7.78	7.37	7.48	7.96	8.16	7.79
22.00	DISCHG	7.41	7.28	7.23	7.16	6.70	6.28	6.38	6.87	7.06	6.69
24.00	DISCHG	6.28	4.85	2.12	.72	.25	.08	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8837 CFS-HRS= 296.57 ACRE-FT= 24.51

SUBROUTINE ADDHYD CROSS SECTION 108
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

12.26	560.172	(NULL)
19.33	24.461	(NULL)
21.67	20.893	(NULL)
23.67	17.977	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.09	.39	.91
10.00	DISCHG	1.61	2.40	3.48	4.84	6.42	8.78	12.03	18.41	32.43	118.36
12.00	DISCHG	341.47	548.41	497.24	348.48	236.53	165.92	125.27	100.64	86.03	76.20
14.00	DISCHG	68.29	62.68	57.95	54.49	51.74	49.29	47.27	44.84	42.72	40.55
16.00	DISCHG	38.25	36.44	34.85	33.70	33.16	32.98	32.72	31.83	30.87	29.80
18.00	DISCHG	28.64	27.60	26.31	25.24	24.70	24.50	24.45	24.46	24.42	23.84
20.00	DISCHG	22.85	22.11	21.77	21.59	20.94	19.93	19.42	20.04	20.83	20.71
22.00	DISCHG	19.92	19.23	18.91	18.72	18.06	17.03	16.51	17.13	17.92	17.79
24.00	DISCHG	16.96	14.97	9.67	4.59	1.83	.67	.23	.08	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1080 CFS-HRS= 858.07 ACRE-FT= 70.91

SUBROUTINE DIVERT CROSS SECTION 108
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.52	481.126	(NULL)
21.91	20.647	(NULL)
23.90	17.747	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.35
10.00	DISCHG	.80	1.44	2.20	3.22	4.49	6.05	8.25	11.47	17.62	36.22
12.00	DISCHG	114.59	291.01	463.17	472.07	376.04	273.10	195.35	144.70	112.94	93.46
14.00	DISCHG	80.80	71.64	65.01	59.81	55.88	52.79	50.19	47.94	45.60	43.41
16.00	DISCHG	41.22	39.00	37.08	35.43	34.19	33.46	33.10	32.75	32.02	31.13
18.00	DISCHG	30.10	28.99	27.91	26.70	25.64	24.98	24.64	24.51	24.47	24.38
20.00	DISCHG	23.91	23.11	22.39	21.94	21.64	21.06	20.23	19.73	20.02	20.57
22.00	DISCHG	20.59	20.06	19.46	19.06	18.76	18.18	17.34	16.83	17.11	17.65
24.00	DISCHG	17.67	16.98	15.08	10.86	6.27	3.10	1.38	.58	.23	.09
26.00	DISCHG	.03	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1062 CFS-HRS= 856.68 ACRE-FT= 70.80

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	563.508	(RUNOFF)
21.63	20.316	(RUNOFF)
23.63	17.452	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.16	.69
10.00	DISCHG	1.61	2.89	4.64	6.76	9.72	13.48	18.69	26.90	52.77	187.34
12.00	DISCHG	428.61	563.05	457.74	309.84	217.73	156.36	121.38	98.78	84.27	73.88
14.00	DISCHG	65.84	60.67	56.18	52.97	50.28	47.83	45.85	43.42	41.42	39.21
16.00	DISCHG	36.90	35.29	33.78	32.75	32.33	32.18	31.81	30.80	29.90	28.81
18.00	DISCHG	27.64	26.66	25.37	24.42	24.00	23.84	23.79	23.78	23.70	22.97
20.00	DISCHG	21.96	21.37	21.13	20.93	20.15	19.12	18.88	19.65	20.31	19.94
22.00	DISCHG	19.07	18.53	18.31	18.10	17.32	16.29	16.05	16.80	17.44	17.07
24.00	DISCHG	16.11	13.60	8.31	3.82	1.67	.72	.31	.12	.04	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2220 CFS-HRS= 867.52 ACRE-FT= 71.69

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 6500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.33

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	266.599	(RUNOFF)
21.65	12.200	(RUNOFF)
23.65	10.513	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.04	.59	2.41	11.11	58.85
12.00	DISCHG	168.19	261.73	236.22	171.92	125.09	92.50	71.89	58.85	50.29	44.07
14.00	DISCHG	39.01	35.71	33.15	31.18	29.62	28.22	27.05	25.72	24.51	23.29
16.00	DISCHG	21.99	20.99	20.12	19.49	19.19	19.07	18.87	18.38	17.86	17.25
18.00	DISCHG	16.58	15.97	15.28	14.69	14.40	14.28	14.24	14.24	14.18	13.83
20.00	DISCHG	13.28	12.89	12.72	12.60	12.19	11.62	11.41	11.77	12.18	12.05
22.00	DISCHG	11.58	11.24	11.09	10.96	10.55	9.95	9.73	10.11	10.50	10.37

24.00	DISCHG	9.86	8.56	5.58	2.80	1.31	.61	.28	.12	.05	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8835 CFS-HRS= 450.46 ACRE-FT= 37.23

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	699.898	(NULL)
21.81	31.927	(NULL)
23.80	27.400	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.89

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
10.00	DISCHG	.39	1.05	2.08	3.53	5.37	7.87	11.63	17.77	32.89	96.94
12.00	DISCHG	282.35	546.54	691.69	655.54	518.50	380.02	278.25	211.38	168.86	141.00
14.00	DISCHG	121.56	107.97	98.17	90.81	85.15	80.55	76.68	73.07	69.58	66.17
16.00	DISCHG	62.72	59.48	56.66	54.38	52.77	51.84	51.24	50.42	49.24	47.76
18.00	DISCHG	46.11	44.40	42.65	40.92	39.53	38.68	38.27	38.10	37.99	37.58
20.00	DISCHG	36.64	35.48	34.56	33.97	33.29	32.21	31.18	30.94	31.51	31.93
22.00	DISCHG	31.59	30.78	30.02	29.49	28.82	27.72	26.67	26.46	26.99	27.40
24.00	DISCHG	27.01	25.19	20.61	14.22	8.27	4.22	2.00	.90	.39	.16
26.00	DISCHG	.05	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0800 CFS-HRS= 1317.30 ACRE-FT= 108.86

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	1185.417	(NULL)
21.85	52.535	(NULL)
23.84	45.087	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.43
10.00	DISCHG	1.20	2.49	4.28	6.74	9.86	13.92	19.88	29.25	50.51	133.16
12.00	DISCHG	396.95	837.55	1154.86	1127.60	894.54	653.13	473.59	356.07	281.80	234.45

14.00	DISCHG	202.36	179.61	163.18	150.62	141.03	133.34	126.87	121.01	115.18	109.58
16.00	DISCHG	103.94	98.48	93.74	89.81	86.95	85.30	84.34	83.18	81.26	78.89
18.00	DISCHG	76.21	73.40	70.56	67.62	65.17	63.66	62.91	62.61	62.46	61.96
20.00	DISCHG	60.55	58.58	56.95	55.92	54.93	53.27	51.41	50.68	51.54	52.49
22.00	DISCHG	52.18	50.84	49.48	48.55	47.58	45.90	44.01	43.28	44.10	45.06
24.00	DISCHG	44.68	42.17	35.68	25.07	14.54	7.32	3.38	1.48	.62	.24
26.00	DISCHG	.09	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0902 CFS-HRS= 2173.98 ACRE-FT= 179.66

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	732.400	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	298.50	645.29	729.38	568.71	334.50	135.75	27.29	1.71	.11
14.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2762 CFS-HRS= 550.81 ACRE-FT= 45.52

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.87	296.561	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1093 CFS-HRS= 218.06 ACRE-FT= 18.02

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	37.944	(RUNOFF)
16.04	5.383	(RUNOFF)

19.43	4.182	(RUNOFF)
21.60	3.720	(RUNOFF)
23.60	3.267	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83
12.00	DISCHG	13.99	36.00	33.49	26.55	21.24	16.73	14.39	12.42	11.25	10.23
14.00	DISCHG	9.37	8.85	8.30	7.99	7.66	7.38	7.15	6.80	6.56	6.22
16.00	DISCHG	5.90	5.70	5.49	5.38	5.36	5.38	5.32	5.16	5.04	4.86
18.00	DISCHG	4.68	4.53	4.31	4.19	4.16	4.15	4.17	4.18	4.17	4.02
20.00	DISCHG	3.85	3.78	3.76	3.73	3.57	3.38	3.40	3.60	3.72	3.60
22.00	DISCHG	3.43	3.36	3.34	3.31	3.13	2.94	2.96	3.15	3.27	3.14
24.00	DISCHG	2.96	2.41	1.21	.46	.18	.07	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3218 CFS-HRS= 89.30 ACRE-FT= 7.38

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.86	316.244	(NULL)
16.94	5.383	(NULL)
19.43	4.182	(NULL)
21.60	3.720	(NULL)
23.60	3.267	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83
12.00	DISCHG	13.99	36.00	50.09	203.03	309.92	284.70	169.99	94.25	54.28	32.85
14.00	DISCHG	21.26	15.10	11.59	9.72	8.57	7.85	7.40	6.93	6.63	6.26
16.00	DISCHG	5.92	5.71	5.49	5.38	5.36	5.38	5.32	5.16	5.04	4.86
18.00	DISCHG	4.68	4.53	4.31	4.19	4.16	4.15	4.17	4.18	4.17	4.02
20.00	DISCHG	3.85	3.78	3.76	3.73	3.57	3.38	3.40	3.60	3.72	3.60
22.00	DISCHG	3.43	3.36	3.34	3.31	3.13	2.94	2.96	3.15	3.27	3.14
24.00	DISCHG	2.96	2.41	1.21	.46	.18	.07	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1353 CFS-HRS= 307.36 ACRE-FT= 25.40

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.90	720.555	(NULL)
21.85	52.535	(NULL)
23.84	45.087	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.43
10.00	DISCHG	1.20	2.49	4.28	6.74	9.86	13.92	19.88	29.25	50.51	133.16
12.00	DISCHG	396.95	698.50	700.00	700.00	700.00	700.00	535.75	383.36	283.51	234.56
14.00	DISCHG	202.36	179.61	163.18	150.62	141.03	133.34	126.87	121.01	115.18	109.58
16.00	DISCHG	103.94	98.48	93.74	89.81	86.95	85.30	84.34	83.18	81.26	78.89
18.00	DISCHG	76.21	73.40	70.56	67.62	65.17	63.66	62.91	62.61	62.46	61.96
20.00	DISCHG	60.55	58.58	56.95	55.92	54.93	53.27	51.41	50.68	51.54	52.49
22.00	DISCHG	52.18	50.84	49.48	48.55	47.58	45.90	44.01	43.28	44.10	45.06
24.00	DISCHG	44.68	42.17	35.68	25.07	14.54	7.32	3.38	1.48	.62	.24
26.00	DISCHG	.09	.02	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1964.61 ACRE-FT= 162.36

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.36	116.482	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.00	.00	15.77	60.06	106.00	115.60	90.40	58.57
14.00	DISCHG	35.13	20.28	11.47	6.41	3.56	1.97	1.09	.60	.33	.18
16.00	DISCHG	.10	.05	.03	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0464 CFS-HRS= 105.52 ACRE-FT= 8.72

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.80	830.559	(NULL)
21.83	56.105	(NULL)
23.22	48.206	(NULL)

```
  TIME                                HYDROGRAPH, TZERO=     .00         DELTA T=  .20         DRAINAGE AREA=     .00
   .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .01        .09        .43
 10.00    DISCHG         1.20       2.49       4.28       6.74       9.86      13.92      19.88      29.25      50.51     133.99
 12.00    DISCHG       410.93     734.51     750.08     810.00     810.00     810.00     645.75     477.61     337.79     267.42
 14.00    DISCHG       223.62     194.71     174.77     160.34     149.60     141.20     134.27     127.94     121.81     115.84
 16.00    DISCHG       109.86     104.19      99.23      95.19      92.32      90.68      89.67      88.34      86.30      83.75
 18.00    DISCHG        80.90      77.93      74.87      71.81      69.33      67.81      67.08      66.79      66.63      65.98
 20.00    DISCHG        64.40      62.36      60.71      59.65      58.49      56.65      54.81      54.28      55.26      56.09
 22.00    DISCHG        55.61      54.20      52.82      51.86      50.72      48.84      46.97      46.44      47.37      48.20
 24.00    DISCHG        47.64      44.58      36.90      25.53      14.72       7.38       3.40       1.49        .62        .24
 26.00    DISCHG          .09        .02        .00

    TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     2165.92        ACRE-FT=     178.99


SUBROUTINE SAVMOV    CROSS SECTION 511
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 2


SUBROUTINE DIVERT    CROSS SECTION 510
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPHS= 4,6


SUBROUTINE REACH     CROSS SECTION 610
           LENGTH=   3400.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

  TIME                                HYDROGRAPH, TZERO=     .00         DELTA T=  .20         DRAINAGE AREA=   3.52
   .00    DISCHG          .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=         .00


SUBROUTINE RUNOFF    CROSS SECTION 610
           AREA=    .46     INPUT RUNOFF CURVE=  62.0     TIME OF CONCENTRATION=   .81

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.58                         30.241                        (RUNOFF)
              21.76                          3.083                        (RUNOFF)
              23.74                          3.397                        (RUNOFF)

  TIME                                HYDROGRAPH, TZERO=     .00         DELTA T=  .20         DRAINAGE AREA=    .46
   .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 10.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .40
 12.00    DISCHG         6.00      18.10      28.01      30.22      27.09      22.78      19.20      16.45      14.41      12.86
 14.00    DISCHG        11.60      10.63       9.84       9.22       8.74       8.35       8.03       7.70       7.38       7.06
 16.00    DISCHG         6.73       6.44       6.18       5.99       5.86       5.80       5.76       5.67       5.55       5.40
 18.00    DISCHG         5.22       5.05       4.86       4.69       4.57       4.51       4.48       4.48       4.47       4.41
```

20.00	DISCHG	4.29	4.17	4.09	4.04	3.96	3.82	3.73	3.75	3.84	3.88
22.00	DISCHG	3.80	3.70	3.63	3.59	3.50	3.36	3.25	3.27	3.37	3.39
24.00	DISCHG	3.30	3.00	2.33	1.51	.86	.46	.26	.14	.08	.04
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3211 CFS-HRS= 95.32 ACRE-FT= 7.88

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	30.241	(NULL)
21.76	3.883	(NULL)
23.74	3.397	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
12.00	DISCHG	6.00	18.10	28.01	30.22	27.09	22.78	19.20	16.45	14.41	12.86
14.00	DISCHG	11.60	10.63	9.84	9.22	8.74	8.35	8.03	7.70	7.38	7.06
16.00	DISCHG	6.73	6.44	6.18	5.99	5.86	5.80	5.76	5.67	5.55	5.40
18.00	DISCHG	5.22	5.05	4.86	4.69	4.57	4.51	4.48	4.48	4.47	4.41
20.00	DISCHG	4.29	4.17	4.09	4.04	3.96	3.82	3.73	3.75	3.84	3.88
22.00	DISCHG	3.80	3.70	3.63	3.59	3.50	3.36	3.25	3.27	3.37	3.39
24.00	DISCHG	3.30	3.00	2.33	1.51	.86	.46	.26	.14	.08	.04
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0371 CFS-HRS= 95.32 ACRE-FT= 7.88

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.95	874.300	(NULL)
21.83	56.105	(NULL)
23.82	48.206	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.09	.43
10.00	DISCHG	1.20	2.49	4.28	6.74	9.86	13.92	19.88	29.25	50.51	133.99
12.00	DISCHG	410.93	734.51	750.08	810.00	825.77	870.06	751.75	593.21	428.19	325.98
14.00	DISCHG	258.75	214.99	186.24	166.76	153.16	143.17	135.36	128.54	122.14	116.02
16.00	DISCHG	109.96	104.24	99.26	95.21	92.33	90.68	89.67	88.34	86.30	83.75
18.00	DISCHG	80.90	77.93	74.87	71.81	69.33	67.81	67.08	66.79	66.63	65.98
20.00	DISCHG	64.40	62.36	60.71	59.65	58.49	56.65	54.81	54.28	55.26	56.09
22.00	DISCHG	55.61	54.20	52.82	51.86	50.72	48.84	46.97	46.44	47.37	48.20
24.00	DISCHG	47.64	44.58	36.90	25.53	14.72	7.38	3.40	1.49	.62	.24

```
 26.00    DISCHG          .09        .02        .00

    TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     2271.44        ACRE-FT=     187.71

SUBROUTINE SAVMOV    CROSS SECTION 611
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT    CROSS SECTION 610
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH     CROSS SECTION 710
           LENGTH=    700.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

   TIME                              HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=   3.98
    .00    DISCHG          .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=         .00

SUBROUTINE ADDHYD    CROSS SECTION 711
           INPUT HYDROGRAPHS= 2,4     OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.95                        898.045                        (NULL)
              21.82                         59.983                        (NULL)
              23.81                         51.595                        (NULL)

   TIME                              HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=    .00
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .01        .09        .43
  10.00    DISCHG         1.20       2.49       4.28       6.74       9.86      13.92      19.88      29.25      50.51     134.39
  12.00    DISCHG       416.93     752.61     778.09     840.22     852.86     892.83     770.95     609.66     442.60     338.84
  14.00    DISCHG       270.35     225.62     196.09     175.98     161.90     151.52     143.39     136.24     129.52     123.08
  16.00    DISCHG       116.69     110.68     105.44     101.19      98.19      96.48      95.43      94.00      91.85      89.15
  18.00    DISCHG        86.12      82.98      79.73      76.50      73.90      72.32      71.56      71.27      71.10      70.39
  20.00    DISCHG        68.69      66.53      64.80      63.69      62.45      60.47      58.54      58.03      59.10      59.97
  22.00    DISCHG        59.41      57.90      56.45      55.45      54.22      52.20      50.22      49.71      50.74      51.59
  24.00    DISCHG        50.95      47.57      39.23      27.04      15.57       7.84       3.66       1.63        .70        .29
  26.00    DISCHG          .11        .02        .00

    TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     2366.76        ACRE-FT=     195.59

SUBROUTINE SAVMOV    CROSS SECTION 711
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV    CROSS SECTION 710
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 4
```

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	18.664	(RUNOFF)
16.91	.967	(RUNOFF)
19.32	.723	(RUNOFF)
20.31	.639	(RUNOFF)
21.49	.639	(RUNOFF)
22.30	.556	(RUNOFF)
23.48	.553	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.11	.31	1.49	9.69
12.00	DISCHG	18.51	13.82	6.82	5.26	3.44	2.97	2.53	2.22	2.11	1.81
14.00	DISCHG	1.73	1.61	1.51	1.48	1.38	1.35	1.27	1.21	1.18	1.07
16.00	DISCHG	1.04	1.00	.96	.96	.96	.96	.92	.89	.87	.82
18.00	DISCHG	.80	.76	.72	.72	.72	.72	.72	.72	.71	.65
20.00	DISCHG	.64	.64	.64	.63	.57	.55	.60	.63	.63	.57
22.00	DISCHG	.56	.55	.55	.54	.48	.47	.51	.55	.54	.49
24.00	DISCHG	.47	.24	.04	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8807 CFS-HRS= 22.74 ACRE-FT= 1.88

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	18.664	(NULL)
16.91	.967	(NULL)
19.32	.723	(NULL)
20.31	.639	(NULL)
21.49	.639	(NULL)
22.30	.556	(NULL)
23.48	.553	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.11	.31	1.49	9.69
12.00	DISCHG	18.51	13.82	6.82	5.26	3.44	2.97	2.53	2.22	2.11	1.81
14.00	DISCHG	1.73	1.61	1.51	1.48	1.38	1.35	1.27	1.21	1.18	1.07
16.00	DISCHG	1.04	1.00	.96	.96	.96	.96	.92	.89	.87	.82
18.00	DISCHG	.80	.76	.72	.72	.72	.72	.72	.72	.71	.65
20.00	DISCHG	.64	.64	.64	.63	.57	.55	.60	.63	.63	.57
22.00	DISCHG	.56	.55	.55	.54	.48	.47	.51	.55	.54	.49

24.00	DISCHG	.47	.24	.04	.01	.00

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.99	8.898	(NULL)
22.14	.607	(NULL)
24.13	.522	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04
12.00	DISCHG	.18	1.01	3.32	6.36	8.40	8.90	8.33	7.23	6.03	4.96
14.00	DISCHG	4.08	3.40	2.87	2.48	2.18	1.95	1.79	1.65	1.55	1.46
16.00	DISCHG	1.38	1.31	1.24	1.18	1.12	1.07	1.04	1.01	.99	.97
18.00	DISCHG	.95	.92	.89	.87	.83	.80	.78	.76	.74	.73
20.00	DISCHG	.73	.72	.70	.69	.67	.66	.65	.63	.61	.60
22.00	DISCHG	.61	.61	.60	.59	.58	.57	.56	.54	.53	.52
24.00	DISCHG	.52	.52	.52	.49	.43	.34	.25	.17	.11	.07
26.00	DISCHG	.04	.03	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8803 CFS-HRS= 22.72 ACRE-FT= 1.88

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	72.085	(RUNOFF)
21.79	4.257	(RUNOFF)
23.76	3.662	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.39	2.29	10.53
12.00	DISCHG	29.86	55.21	70.65	69.13	58.43	45.96	36.41	29.44	24.23	20.47
14.00	DISCHG	17.61	15.54	13.94	12.70	11.71	10.91	10.30	9.78	9.29	8.84
16.00	DISCHG	8.38	7.96	7.58	7.29	7.07	6.93	6.82	6.70	6.54	6.35
18.00	DISCHG	6.14	5.93	5.71	5.49	5.32	5.20	5.13	5.09	5.06	5.00
20.00	DISCHG	4.88	4.74	4.63	4.55	4.46	4.32	4.20	4.17	4.22	4.26
22.00	DISCHG	4.21	4.11	4.02	3.95	3.87	3.73	3.61	3.58	3.63	3.66
24.00	DISCHG	3.59	3.33	2.78	2.03	1.32	.80	.48	.29	.17	.10
26.00	DISCHG	.06	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8823 CFS-HRS= 159.43 ACRE-FT= 13.18

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	76.118	(NULL)
21.78	4.861	(NULL)
23.75	4.182	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.39	2.30	10.57
12.00	DISCHG	30.04	56.22	73.97	75.49	66.82	54.86	44.73	36.66	30.26	25.43
14.00	DISCHG	21.69	18.93	16.81	15.18	13.89	12.86	12.09	11.43	10.84	10.30
16.00	DISCHG	9.76	9.27	8.83	8.46	8.19	8.00	7.86	7.71	7.53	7.32
18.00	DISCHG	7.09	6.85	6.60	6.36	6.15	6.00	5.91	5.85	5.80	5.73
20.00	DISCHG	5.61	5.46	5.34	5.24	5.13	4.98	4.84	4.79	4.83	4.86
22.00	DISCHG	4.82	4.72	4.62	4.55	4.45	4.30	4.17	4.12	4.15	4.18
24.00	DISCHG	4.11	3.85	3.30	2.52	1.75	1.14	.73	.45	.28	.17
26.00	DISCHG	.11	.06	.03	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8820 CFS-HRS= 182.15 ACRE-FT= 15.05

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 5400.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.78	1306.077	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.04	.25	.70	1.34
10.00	DISCHG	2.13	3.26	5.30	8.57	13.84	21.36	32.15	48.68	86.14	259.01
12.00	DISCHG	642.56	1033.11	1205.28	1266.49	1305.59	1248.03	1091.84	897.37	718.90	578.36
14.00	DISCHG	473.37	398.09	343.50	303.19	272.97	249.40	230.90	215.64	203.11	192.19
16.00	DISCHG	181.85	172.67	164.36	156.97	151.04	146.48	142.67	138.98	135.64	132.28
18.00	DISCHG	128.50	124.52	120.12	115.74	112.04	108.97	106.48	104.66	103.36	101.77
20.00	DISCHG	99.65	97.66	95.92	94.12	91.72	88.86	86.78	86.11	85.95	85.14
22.00	DISCHG	83.87	82.93	82.17	81.08	79.12	76.48	74.52	73.93	73.79	72.98
24.00	DISCHG	71.67	68.38	60.25	49.71	39.78	30.13	21.00	13.51	8.24	4.91
26.00	DISCHG	2.88	1.68	.97	.55	.30	.14	.00			

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.76	1374.374	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.04	.25	.70	1.34
10.00	DISCHG	2.13	3.26	5.30	8.57	13.84	21.38	32.25	49.07	88.44	269.58
12.00	DISCHG	672.61	1089.33	1279.25	1341.98	1372.41	1302.88	1136.57	934.04	749.16	603.78
14.00	DISCHG	495.06	417.02	360.31	318.37	286.86	262.26	242.98	227.07	213.95	202.48
16.00	DISCHG	191.61	181.94	173.19	165.43	159.23	154.48	150.52	146.58	143.17	139.60
18.00	DISCHG	135.59	131.38	126.72	122.10	118.19	114.97	112.39	110.51	109.17	107.50
20.00	DISCHG	105.26	103.12	101.26	99.36	96.85	93.84	91.62	90.91	90.78	90.00
22.00	DISCHG	88.69	87.65	86.79	85.62	83.57	80.78	78.70	78.05	77.94	77.16
24.00	DISCHG	75.78	72.24	63.55	52.23	41.52	31.27	21.72	13.96	8.53	5.08
26.00	DISCHG	2.99	1.74	1.00	.56	.30	.14	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1333 CFS-HRS= 3796.05 ACRE-FT= 313.71

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.07	1344.825	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.02	.14	.46
10.00	DISCHG	.97	1.66	2.60	4.15	6.70	10.83	16.99	25.91	39.37	67.08
12.00	DISCHG	177.34	455.65	833.35	1121.93	1271.48	1339.84	1327.82	1222.78	1053.46	868.67
14.00	DISCHG	704.31	573.08	474.51	402.28	349.27	309.91	279.98	256.78	238.25	223.12
16.00	DISCHG	210.34	198.85	188.44	179.06	170.66	163.55	157.87	153.29	149.24	145.51
18.00	DISCHG	141.92	138.11	134.05	129.64	125.07	120.83	117.20	114.20	111.88	110.16
20.00	DISCHG	108.56	106.60	104.43	102.50	100.59	98.37	95.67	93.16	91.65	91.03
22.00	DISCHG	90.43	89.43	88.34	87.38	86.34	84.74	82.42	80.12	78.73	78.17
24.00	DISCHG	77.59	76.55	74.13	68.20	58.86	48.37	37.95	28.02	19.31	12.51
26.00	DISCHG	7.76	4.68	2.77	1.62	.93	.52	.27	.10	.03	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1333 CFS-HRS= 3795.85 ACRE-FT= 313.69

64

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

13.07 1344.825 (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.02	.14	.46
10.00	DISCHG	.97	1.66	2.60	4.15	6.70	10.83	16.99	25.91	39.37	67.08
12.00	DISCHG	177.34	455.65	833.35	1121.93	1271.48	1339.84	1327.82	1222.78	1053.46	868.67
14.00	DISCHG	704.31	573.08	474.51	402.28	349.27	309.91	279.98	256.78	238.25	223.12
16.00	DISCHG	210.34	198.85	188.44	179.06	170.66	163.55	157.87	153.29	149.24	145.51
18.00	DISCHG	141.92	138.11	134.05	129.64	125.07	120.83	117.20	114.20	111.88	110.16
20.00	DISCHG	108.56	106.60	104.49	102.50	100.59	98.37	95.67	93.16	91.65	91.03
22.00	DISCHG	90.43	89.43	88.34	87.38	86.34	84.74	82.42	80.12	78.73	78.17
24.00	DISCHG	77.59	76.55	74.13	68.20	58.86	48.37	37.95	28.02	19.31	12.51
26.00	DISCHG	7.76	4.68	2.77	1.62	.93	.52	.27	.10	.03	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6414 CFS-HRS= 3795.85 ACRE-FT= 313.69

ENDCMP

PASS= 4

EXECUTIVE CONTROL CARD 66 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 2.20 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 4

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.45	728.440	(RUNOFF)
21.77	40.082	(RUNOFF)
23.75	34.521	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.07	.75	3.08	8.18	30.08	123.31
12.00	DISCHG	335.23	597.36	723.47	679.44	552.68	425.73	335.21	266.93	219.89	186.62
14.00	DISCHG	161.40	142.44	128.38	117.25	108.34	101.54	96.29	91.43	87.01	82.70
16.00	DISCHG	78.42	74.49	71.09	68.33	66.33	65.12	64.20	63.00	61.45	59.62
18.00	DISCHG	57.63	55.60	53.45	51.41	49.79	48.76	48.22	47.93	47.67	47.00
20.00	DISCHG	45.80	44.47	43.46	42.74	41.84	40.45	39.32	39.16	39.79	40.07
22.00	DISCHG	39.52	38.56	37.73	37.12	36.25	34.88	33.74	33.58	34.21	34.49
24.00	DISCHG	33.71	31.11	25.45	17.91	11.12	6.39	3.82	2.24	1.29	.75
26.00	DISCHG	.43	.23	.12	.05	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7339 CFS-HRS= 1539.36 ACRE-FT= 127.21

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	82.521	(RUNOFF)
16.92	5.393	(RUNOFF)
19.34	4.068	(RUNOFF)
20.31	3.608	(RUNOFF)
21.50	3.608	(RUNOFF)
22.30	3.159	(RUNOFF)
23.50	3.149	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.44	28.80
12.00	DISCHG	78.24	72.33	37.71	28.89	19.33	16.16	14.02	12.17	11.60	10.02
14.00	DISCHG	9.51	8.91	8.35	9.17	7.65	7.48	7.10	6.71	6.54	5.99
16.00	DISCHG	5.79	5.57	5.37	5.34	5.36	5.38	5.19	4.99	4.90	4.61
18.00	DISCHG	4.51	4.29	4.07	4.03	4.03	4.04	4.05	4.07	4.02	3.72
20.00	DISCHG	3.62	3.60	3.60	3.55	3.25	3.14	3.34	3.57	3.57	3.28
22.00	DISCHG	3.17	3.15	3.15	3.10	2.79	2.67	2.87	3.11	3.11	2.81
24.00	DISCHG	2.68	1.55	.35	.07	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5195 CFS-HRS= 113.98 ACRE-FT= 9.42

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	722.250	(NULL)
21.82	43.111	(NULL)
23.78	37.056	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.02	.29	1.46	4.55	16.41	87.84
12.00	DISCHG	263.22	473.97	649.82	722.16	658.46	538.58	423.06	334.92	270.63	224.28
14.00	DISCHG	191.57	166.87	148.27	134.45	123.19	114.56	107.66	101.98	97.03	92.04
16.00	DISCHG	87.54	83.15	79.16	75.89	73.33	71.53	70.15	68.90	67.51	65.61
18.00	DISCHG	63.66	61.46	59.18	57.04	55.13	53.67	52.75	52.25	51.90	51.20
20.00	DISCHG	50.28	49.08	47.88	46.88	45.77	44.61	43.55	42.97	42.97	43.11
22.00	DISCHG	43.03	42.40	41.53	40.71	39.68	38.56	37.51	36.92	36.93	37.05
24.00	DISCHG	36.87	34.46	29.83	23.57	16.44	10.28	6.07	3.61	2.11	1.22
26.00	DISCHG	.71	.40	.22	.11	.05	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7135 CFS-HRS= 1653.18 ACRE-FT= 136.62

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	225.124	(RUNOFF)
16.91	11.724	(RUNOFF)
19.32	8.759	(RUNOFF)
20.31	7.742	(RUNOFF)
21.48	7.729	(RUNOFF)
22.30	6.746	(RUNOFF)
23.48	6.705	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.06	1.20	3.58	17.56	116.22
12.00	DISCHG	223.15	166.92	82.49	63.63	41.61	35.92	30.67	26.89	25.60	21.95
14.00	DISCHG	21.00	19.50	18.35	17.96	16.70	16.41	15.42	14.63	14.27	12.94
16.00	DISCHG	12.60	12.07	11.66	11.62	11.64	11.67	11.19	10.78	10.57	9.91
18.00	DISCHG	9.73	9.19	8.76	8.69	8.69	8.71	8.73	8.75	8.61	7.93
20.00	DISCHG	7.74	7.72	7.73	7.59	6.89	6.71	7.22	7.69	7.64	6.94
22.00	DISCHG	6.75	6.73	6.73	6.58	5.87	5.68	6.20	6.67	6.60	5.91
24.00	DISCHG	5.71	2.87	.53	.09	.01					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6864 CFS-HRS= 274.66 ACRE-FT= 22.70

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.66	754.228	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.01	.23	2.13	6.72	28.57	171.76
12.00	DISCHG	405.81	541.34	647.13	747.84	726.07	629.82	509.03	404.86	327.81	269.03
14.00	DISCHG	228.70	198.48	175.73	159.18	145.37	135.18	126.44	119.37	113.69	107.37
16.00	DISCHG	102.31	97.32	92.75	89.10	86.22	84.09	82.01	80.28	78.74	76.41
18.00	DISCHG	74.32	71.69	69.02	66.76	64.74	63.09	61.94	61.25	60.68	59.45
20.00	DISCHG	58.46	57.37	56.18	54.96	53.19	51.87	51.28	50.95	50.63	49.99
22.00	DISCHG	49.81	49.41	48.67	47.69	46.04	44.77	44.21	43.88	43.55	42.91
24.00	DISCHG	42.66	38.42	32.50	26.60	19.83	13.26	8.15	4.85	2.86	1.67
26.00	DISCHG	.97	.56	.31	.16	.08	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7095 CFS-HRS= 1927.80 ACRE-FT= 159.31

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	254.046	(RUNOFF)
19.34	10.388	(RUNOFF)
21.56	9.024	(RUNOFF)
23.56	7.793	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.18	.76	1.84	3.23	5.43	8.95	21.16	102.54
12.00	DISCHG	224.33	249.09	156.05	102.77	71.37	52.49	43.40	36.20	32.91	29.20
14.00	DISCHG	26.54	24.92	23.10	22.18	21.00	20.13	19.33	18.18	17.52	16.39
16.00	DISCHG	15.49	14.93	14.29	14.02	13.95	13.94	13.69	13.15	12.83	12.24
18.00	DISCHG	11.78	11.35	10.74	10.46	10.38	10.36	10.37	10.38	10.32	9.82
20.00	DISCHG	9.38	9.23	9.18	9.10	8.58	8.14	8.27	8.81	9.01	8.58
22.00	DISCHG	8.16	8.02	7.97	7.88	7.36	6.90	7.03	7.58	7.78	7.35
24.00	DISCHG	6.89	5.26	2.23	.74	.25	.08	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8361 CFS-HRS= 356.12 ACRE-FT= 29.43

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.76	803.760	(NULL)
23.32	51.746	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.16	.76	1.85	3.32	6.35	12.64	35.68	182.98
12.00	DISCHG	472.31	685.90	723.93	777.70	801.93	743.07	635.59	516.62	418.37	342.22
14.00	DISCHG	285.97	246.15	215.91	193.85	176.58	162.96	152.20	142.78	135.41	128.24
16.00	DISCHG	121.53	115.84	110.35	105.81	102.31	99.64	97.21	94.71	92.70	90.25
18.00	DISCHG	87.61	84.88	81.66	78.88	76.59	74.67	73.18	72.18	71.43	70.10
20.00	DISCHG	68.56	67.36	66.20	64.93	62.98	60.98	60.04	60.03	59.88	59.00
22.00	DISCHG	58.14	57.70	57.14	56.25	54.51	52.60	51.71	51.73	51.57	50.69
24.00	DISCHG	49.76	46.36	38.77	31.54	24.84	18.05	11.96	7.39	4.42	2.61
26.00	DISCHG	1.52	.88	.51	.28	.15	.06	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7266 CFS-HRS= 2283.82 ACRE-FT= 188.73

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.98	346.641	(RUNOFF)
16.91	14.495	(RUNOFF)
19.31	10.752	(RUNOFF)
20.31	9.485	(RUNOFF)
21.40	9.476	(RUNOFF)

22.31	8.240	(RUNOFF)
23.40	8.209	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.03	.58	1.58	3.23	4.70	8.99	12.70	54.67	229.72
12.00	DISCHG	344.43	156.66	88.02	72.38	46.68	44.23	35.57	33.04	31.05	26.45
14.00	DISCHG	26.05	23.42	22.63	21.98	20.43	20.31	18.52	17.97	17.29	15.65
16.00	DISCHG	15.51	14.59	14.32	14.32	14.36	14.39	13.46	13.18	12.82	11.99
18.00	DISCHG	11.92	10.95	10.66	10.64	10.66	10.68	10.70	10.72	10.37	9.51
20.00	DISCHG	9.43	9.43	9.45	9.10	8.22	8.15	9.13	9.48	9.16	8.28
22.00	DISCHG	8.19	8.19	8.20	7.84	6.95	6.87	7.87	8.21	7.88	6.99
24.00	DISCHG	6.90	1.78	.16	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8224 CFS-HRS= 360.89 ACRE-FT= 29.82

SUBROUTINE REACH CROSS SECTION 108
LENGTH= 5000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.43

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	112.354	(RUNOFF)
16.91	8.223	(RUNOFF)
19.37	6.208	(RUNOFF)
21.57	5.447	(RUNOFF)
23.57	4.735	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.38	23.62
12.00	DISCHG	92.50	112.30	77.30	53.62	38.35	28.81	24.17	20.34	18.54	16.56
14.00	DISCHG	15.09	14.22	13.24	12.74	12.10	11.62	11.20	10.57	10.20	9.57
16.00	DISCHG	9.05	8.74	8.39	8.23	8.20	8.21	8.08	7.78	7.59	7.27
18.00	DISCHG	7.00	6.75	6.40	6.23	6.19	6.18	6.19	6.21	6.18	5.89
20.00	DISCHG	5.63	5.54	5.52	5.48	5.18	4.91	4.98	5.30	5.44	5.20
22.00	DISCHG	4.95	4.86	4.83	4.79	4.48	4.20	4.27	4.60	4.73	4.48
24.00	DISCHG	4.21	3.25	1.42	.48	.17	.05	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5206 CFS-HRS= 174.72 ACRE-FT= 14.44

SUBROUTINE ADDHYD CROSS SECTION 108
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	337.291	(NULL)
19.39	16.896	(NULL)
21.68	14.501	(NULL)
23.68	12.519	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.01	.20	.74	1.76	3.10	5.43	10.10	48.13
12.00	DISCHG	180.58	324.32	309.02	222.33	153.82	109.36	83.27	67.31	57.73	51.30
14.00	DISCHG	46.08	42.36	39.23	36.93	35.13	33.50	32.17	30.56	29.14	27.70
16.00	DISCHG	26.15	24.93	23.86	23.09	22.73	22.62	22.47	21.87	21.23	20.51
18.00	DISCHG	19.72	19.02	18.14	17.41	17.04	16.91	16.88	16.90	16.88	16.49
20.00	DISCHG	15.82	15.31	15.08	14.96	14.52	13.83	13.47	13.89	14.45	14.39
22.00	DISCHG	13.84	13.37	13.14	13.02	12.57	11.86	11.49	11.92	12.47	12.40
24.00	DISCHG	11.83	10.47	6.81	3.24	1.29	.47	.17	.05	.02	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6960 CFS-HRS= 538.99 ACRE-FT= 44.54

SUBROUTINE DIVERT CROSS SECTION 108
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	290.282	(NULL)
21.92	14.333	(NULL)
23.91	12.360	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.20

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.20	.67	1.55	2.85	5.08	12.26
12.00	DISCHG	49.91	153.92	269.71	288.28	236.18	175.14	127.31	95.44	75.14	62.52
14.00	DISCHG	54.28	48.27	43.90	40.46	37.85	35.82	34.10	32.61	31.06	29.60
16.00	DISCHG	28.14	26.65	25.36	24.25	23.42	22.93	22.70	22.48	22.00	21.40
18.00	DISCHG	20.71	19.96	19.23	18.41	17.69	17.23	17.01	16.92	16.90	16.85
20.00	DISCHG	16.54	16.00	15.50	15.20	14.99	14.60	14.03	13.69	13.88	14.27
22.00	DISCHG	14.30	13.94	13.52	13.25	13.05	12.65	12.07	11.71	11.91	12.29
24.00	DISCHG	12.31	11.85	10.54	7.62	4.42	2.19	.98	.41	.16	.06
26.00	DISCHG	.02	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6950 CFS-HRS= 538.27 ACRE-FT= 44.48

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	349.623	(RUNOFF)
19.32	16.706	(RUNOFF)
21.63	14.328	(RUNOFF)
23.63	12.346	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.08	.66	2.03	4.49	8.55	22.18	98.65
12.00	DISCHG	250.46	348.27	291.29	200.96	143.44	104.24	81.70	66.98	57.47	50.58
14.00	DISCHG	45.18	41.71	38.69	36.53	34.73	33.08	31.74	30.09	28.74	27.23
16.00	DISCHG	25.65	24.55	23.52	22.82	22.54	22.45	22.20	21.51	20.90	20.15
18.00	DISCHG	19.34	18.67	17.78	17.11	16.83	16.73	16.70	16.70	16.65	16.15
20.00	DISCHG	15.44	15.03	14.87	14.73	14.19	13.47	13.31	13.85	14.32	14.06
22.00	DISCHG	13.46	13.08	12.93	12.79	12.24	11.52	11.35	11.88	12.34	12.08
24.00	DISCHG	11.40	9.63	5.88	2.70	1.18	.51	.22	.09	.03	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7829 CFS-HRS= 555.80 ACRE-FT= 45.93

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 6500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.33

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	143.153	(RUNOFF)
19.33	9.431	(RUNOFF)
21.65	8.133	(RUNOFF)
23.65	7.040	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.50	19.72
12.00	DISCHG	76.97	137.51	131.68	99.35	74.33	56.13	44.35	36.77	31.73	28.02
14.00	DISCHG	24.92	22.89	21.31	20.09	19.13	18.25	17.53	16.70	15.94	15.16
16.00	DISCHG	14.34	13.70	13.15	12.76	12.57	12.51	12.39	12.08	11.75	11.36
18.00	DISCHG	10.92	10.53	10.08	9.71	9.52	9.44	9.42	9.43	9.40	9.17

20.00	DISCHG	8.81	8.56	8.45	8.37	8.11	7.73	7.60	7.84	8.12	8.03
22.00	DISCHG	7.73	7.50	7.40	7.32	7.05	6.65	6.51	6.76	7.03	6.95
24.00	DISCHG	6.61	5.74	3.74	1.88	.88	.41	.19	.08	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5208 CFS-HRS= 265.53 ACRE-FT= 21.94

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	417.273	(NULL)
21.82	22.052	(NULL)
23.81	18.991	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.89

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.04	.35	1.24	3.01	7.56	34.22
12.00	DISCHG	134.22	298.73	405.77	400.39	324.74	242.45	180.10	138.36	111.50	93.73
14.00	DISCHG	81.21	72.35	65.93	61.10	57.38	54.36	51.82	49.45	47.15	44.89
16.00	DISCHG	42.60	40.44	38.55	37.03	35.95	35.34	34.96	34.44	33.66	32.68
18.00	DISCHG	31.57	30.42	29.24	28.07	27.13	26.55	26.28	26.17	26.11	25.85
20.00	DISCHG	25.23	24.43	23.81	23.41	22.96	22.23	21.52	21.35	21.74	22.05
22.00	DISCHG	21.84	21.29	20.77	20.40	19.95	19.21	18.48	18.32	18.69	18.99
24.00	DISCHG	18.74	17.50	14.38	9.96	5.81	2.96	1.40	.63	.27	.11
26.00	DISCHG	.04	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6730 CFS-HRS= 820.91 ACRE-FT= 67.84

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 109
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.52	700.338	(NULL)
21.86	36.356	(NULL)
23.85	31.308	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	184.13	452.65	675.48	688.68	560.92	417.59	307.41	233.80	186.64	156.26
14.00	DISCHG	135.49	120.62	109.82	101.56	95.23	90.18	85.92	82.06	78.21	74.49
16.00	DISCHG	70.74	67.09	63.92	61.28	59.37	58.27	57.66	56.92	55.66	54.08
18.00	DISCHG	52.28	50.38	48.47	46.48	44.81	43.78	43.28	43.10	43.01	42.70
20.00	DISCHG	41.76	40.43	39.31	38.61	37.95	36.83	35.56	35.04	35.63	36.32
22.00	DISCHG	36.14	35.23	34.29	33.65	33.00	31.86	30.55	30.03	30.60	31.28
24.00	DISCHG	31.05	29.35	24.92	17.58	10.22	5.15	2.38	1.04	.44	.17
26.00	DISCHG	.06	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6816 CFS-HRS= 1359.18 ACRE-FT= 112.32

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	279.983	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.09

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	35.92	203.62	279.97	200.97	65.65	8.61	.54	.03	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0787 CFS-HRS= 156.99 ACRE-FT= 12.97

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	8.330	(RUNOFF)
17.00	2.735	(RUNOFF)
19.50	2.205	(RUNOFF)
21.60	1.597	(RUNOFF)

23.60 1.779 (RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	1.00	5.95	8.04	8.31	7.62	6.53	5.96	5.34	4.99	4.62
14.00	DISCHG	4.30	4.11	3.90	3.79	3.67	3.56	3.48	3.33	3.23	3.08
16.00	DISCHG	2.93	2.85	2.76	2.71	2.72	2.73	2.72	2.64	2.59	2.50
18.00	DISCHG	2.42	2.35	2.24	2.18	2.17	2.17	2.19	2.20	2.20	2.12
20.00	DISCHG	2.04	2.00	2.00	1.99	1.90	1.81	1.82	1.93	2.00	1.94
22.00	DISCHG	1.85	1.81	1.80	1.79	1.70	1.60	1.61	1.71	1.78	1.71
24.00	DISCHG	1.62	1.31	.66	.25	.10	.04	.01	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1336 CFS-HRS= 37.06 ACRE-FT= 3.06

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	8.330	(NULL)
17.00	2.735	(NULL)
19.50	2.209	(NULL)
21.60	1.997	(NULL)
23.60	1.779	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	1.00	5.95	8.04	8.31	7.62	6.53	5.96	5.34	4.99	4.62
14.00	DISCHG	4.30	4.11	3.90	3.79	3.67	3.56	3.48	3.33	3.23	3.08
16.00	DISCHG	2.93	2.85	2.76	2.71	2.72	2.73	2.72	2.64	2.59	2.50
18.00	DISCHG	2.42	2.35	2.24	2.18	2.17	2.17	2.19	2.20	2.20	2.12
20.00	DISCHG	2.04	2.00	2.00	1.99	1.90	1.81	1.82	1.93	2.00	1.94
22.00	DISCHG	1.85	1.81	1.80	1.79	1.70	1.60	1.61	1.71	1.78	1.71
24.00	DISCHG	1.62	1.31	.66	.25	.10	.04	.01	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0163 CFS-HRS= 37.06 ACRE-FT= 3.06

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	679.998	(NULL)
21.86	36.356	(NULL)
23.85	31.308	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	184.13	435.92	603.62	679.97	600.97	465.65	316.01	234.34	186.67	156.26
14.00	DISCHG	135.49	120.62	109.82	101.56	95.23	90.18	85.92	82.06	78.21	74.49
16.00	DISCHG	70.74	67.09	63.92	61.28	59.37	58.27	57.66	56.92	55.66	54.08
18.00	DISCHG	52.28	50.38	48.47	46.48	44.81	43.78	43.28	43.10	43.01	42.70
20.00	DISCHG	41.76	40.43	39.31	38.61	37.95	36.83	35.56	35.04	35.63	36.32
22.00	DISCHG	36.14	35.23	34.29	33.65	33.00	31.86	30.55	30.03	30.60	31.28
24.00	DISCHG	31.05	29.35	24.92	17.58	10.22	5.15	2.38	1.04	.44	.17
26.00	DISCHG	.06	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1362.27 ACRE-FT= 112.58

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	688.306	(NULL)
21.84	38.272	(NULL)
23.83	33.005	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	185.13	441.87	611.66	688.28	608.59	472.18	321.97	239.68	191.66	160.88
14.00	DISCHG	139.79	124.73	113.73	105.35	98.90	93.74	89.39	85.39	81.44	77.57
16.00	DISCHG	73.68	69.94	66.67	63.99	62.08	61.00	60.38	59.56	58.25	56.58
18.00	DISCHG	54.70	52.73	50.71	48.66	46.98	45.96	45.47	45.30	45.21	44.83
20.00	DISCHG	43.80	42.43	41.31	40.60	39.85	38.64	37.37	36.97	37.63	38.25

22.00	DISCHG	37.99	37.04	36.09	35.44	34.70	33.45	32.16	31.75	32.37	32.99
24.00	DISCHG	32.67	30.66	25.58	17.83	10.32	5.19	2.39	1.04	.44	.17
26.00	DISCHG	.06	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1399.33 ACRE-FT= 115.64

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.52

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	7.969	(RUNOFF)
19.51	2.352	(RUNOFF)
21.77	2.084	(RUNOFF)
23.75	1.848	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.51	2.42	5.28	7.29	7.96	7.56	6.99	6.40	5.91	5.48
14.00	DISCHG	5.09	4.77	4.51	4.30	4.12	3.98	3.86	3.73	3.60	3.47
16.00	DISCHG	3.33	3.20	3.08	3.00	2.95	2.94	2.92	2.89	2.84	2.77
18.00	DISCHG	2.69	2.61	2.52	2.43	2.38	2.35	2.34	2.35	2.35	2.32
20.00	DISCHG	2.26	2.21	2.17	2.15	2.11	2.04	1.99	2.00	2.06	2.08
22.00	DISCHG	2.04	1.99	1.96	1.94	1.89	1.82	1.76	1.78	1.83	1.85
24.00	DISCHG	1.80	1.63	1.27	.82	.47	.25	.14	.08	.04	.02
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1333 CFS-HRS= 39.59 ACRE-FT= 3.27

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	7.969	(NULL)
19.51	2.352	(NULL)
21.77	2.084	(NULL)
23.75	1.848	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.98

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.51	2.42	5.28	7.29	7.96	7.56	6.99	6.40	5.91	5.48
14.00	DISCHG	5.09	4.77	4.51	4.30	4.12	3.98	3.86	3.73	3.60	3.47
16.00	DISCHG	3.33	3.20	3.08	3.00	2.95	2.94	2.92	2.89	2.84	2.77
18.00	DISCHG	2.69	2.61	2.52	2.43	2.38	2.35	2.34	2.35	2.35	2.32
20.00	DISCHG	2.26	2.21	2.17	2.15	2.11	2.04	1.99	2.00	2.06	2.08
22.00	DISCHG	2.04	1.99	1.96	1.94	1.89	1.82	1.76	1.78	1.83	1.85
24.00	DISCHG	1.80	1.63	1.27	.82	.47	.25	.14	.08	.04	.02
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0154 CFS-HRS= 39.59 ACRE-FT= 3.27

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	688.306	(NULL)
21.84	38.272	(NULL)
23.83	33.005	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.02	.24	1.02	2.80	5.86	12.65	46.48
12.00	DISCHG	185.13	441.87	611.66	688.28	608.59	472.18	321.97	239.68	191.66	160.88
14.00	DISCHG	139.79	124.73	113.73	105.35	98.90	93.74	89.39	85.39	81.44	77.57
16.00	DISCHG	73.68	69.94	66.67	63.99	62.08	61.00	60.38	59.56	58.25	56.58
18.00	DISCHG	54.70	52.73	50.71	48.66	46.98	45.96	45.47	45.30	45.21	44.83
20.00	DISCHG	43.80	42.43	41.31	40.60	39.85	38.64	37.37	36.97	37.63	38.25
22.00	DISCHG	37.99	37.04	36.09	35.44	34.70	33.45	32.16	31.75	32.37	32.99
24.00	DISCHG	32.67	30.66	25.58	17.83	10.32	5.19	2.39	1.04	.44	.17
26.00	DISCHG	.06	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1399.33 ACRE-FT= 115.64

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610

```
          INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH     CROSS SECTION 710
          LENGTH=    700.00    INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=   3.98
    .00    DISCHG          .00

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=         .00        ACRE-FT=        .00

SUBROUTINE ADDHYD    CROSS SECTION 711
          INPUT HYDROGRAPHS= 2,4     OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.60                        695.591                       (NULL)
             21.84                         40.352                       (NULL)
             23.83                         34.848                       (NULL)

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=    .00
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  10.00    DISCHG          .00        .00        .00        .02        .24       1.02       2.80       5.86      12.65      46.48
  12.00    DISCHG       185.64     444.29     616.94     695.57     616.55     479.75     328.96     246.08     197.57     166.36
  14.00    DISCHG       144.88     129.50     118.24     109.65     103.02      97.72      93.25      89.12      85.04      81.04
  16.00    DISCHG        77.00      73.14      69.76      66.99      65.03      63.94      63.30      62.45      61.08      59.35
  18.00    DISCHG        57.39      55.34      53.23      51.09      49.36      48.31      47.81      47.64      47.56      47.15
  20.00    DISCHG        46.07      44.64      43.48      42.74      41.95      40.68      39.36      38.97      39.68      40.34
  22.00    DISCHG        40.03      39.03      38.05      37.38      36.59      35.27      33.92      33.53      34.21      34.84
  24.00    DISCHG        34.47      32.30      26.86      18.66      10.79       5.44       2.53       1.12        .48        .19
  26.00    DISCHG          .07        .02        .00

     TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     1438.91        ACRE-FT=     118.91

SUBROUTINE SAVMOV    CROSS SECTION 711
          INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV    CROSS SECTION 710
          INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF    CROSS SECTION 209
          AREA=    .04     INPUT RUNOFF CURVE=  76.0     TIME OF CONCENTRATION=   .28

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.05                         10.220                      (RUNOFF)
             16.92                           .635                      (RUNOFF)
             19.33                           .479                      (RUNOFF)
             20.32                           .425                      (RUNOFF)
```

21.49	.426	(RUNOFF)
22.31	.372	(RUNOFF)
23.48	.371	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.20	3.91
12.00	DISCHG	9.95	8.05	4.12	3.26	2.15	1.87	1.61	1.41	1.35	1.16
14.00	DISCHG	1.11	1.04	.98	.96	.89	.88	.83	.79	.77	.70
16.00	DISCHG	.68	.65	.63	.63	.63	.63	.61	.59	.57	.54
18.00	DISCHG	.53	.50	.48	.47	.47	.48	.48	.48	.47	.43
20.00	DISCHG	.42	.42	.42	.42	.38	.37	.40	.42	.42	.38
22.00	DISCHG	.37	.37	.37	.36	.32	.31	.34	.37	.36	.33
24.00	DISCHG	.32	.16	.03	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5183 CFS-HRS= 13.38 ACRE-FT= 1.11

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	10.220	(NULL)
16.92	.635	(NULL)
19.33	.479	(NULL)
20.32	.425	(NULL)
21.49	.426	(NULL)
22.31	.372	(NULL)
23.48	.371	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.20	3.91
12.00	DISCHG	9.95	8.05	4.12	3.26	2.15	1.87	1.61	1.41	1.35	1.16
14.00	DISCHG	1.11	1.04	.98	.96	.89	.88	.83	.79	.77	.70
16.00	DISCHG	.68	.65	.63	.63	.63	.63	.61	.59	.57	.54
18.00	DISCHG	.53	.50	.48	.47	.47	.48	.48	.48	.47	.43
20.00	DISCHG	.42	.42	.42	.42	.38	.37	.40	.42	.42	.38
22.00	DISCHG	.37	.37	.37	.36	.32	.31	.34	.37	.36	.33
24.00	DISCHG	.32	.16	.03	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.04	4.787	(NULL)

22.06	.405	(NULL)
24.25	.350	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.01	.31	1.40	3.07	4.33	4.77	4.60	4.09	3.49	2.92
14.00	DISCHG	2.45	2.07	1.77	1.55	1.37	1.24	1.14	1.06	1.00	.94
16.00	DISCHG	.89	.85	.81	.77	.73	.70	.68	.66	.65	.64
18.00	DISCHG	.62	.61	.59	.57	.55	.53	.51	.50	.49	.49
20.00	DISCHG	.48	.48	.47	.46	.45	.44	.43	.42	.41	.40
22.00	DISCHG	.40	.40	.40	.39	.39	.38	.37	.36	.35	.35
24.00	DISCHG	.35	.35	.35	.33	.29	.23	.16	.11	.07	.05
26.00	DISCHG	.03	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5190 CFS-HRS= 13.40 ACRE-FT= 1.11

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	38.235	(RUNOFF)
21.80	2.837	(RUNOFF)
23.77	2.451	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.37	3.51
12.00	DISCHG	12.85	26.93	37.03	37.89	33.10	26.68	21.56	17.72	14.80	12.66
14.00	DISCHG	11.01	9.79	8.85	8.11	7.52	7.03	6.65	6.33	6.03	5.74
16.00	DISCHG	5.45	5.19	4.95	4.76	4.62	4.54	4.47	4.39	4.29	4.18
18.00	DISCHG	4.04	3.91	3.76	3.62	3.51	3.43	3.39	3.37	3.35	3.31
20.00	DISCHG	3.24	3.15	3.08	3.02	2.96	2.87	2.79	2.77	2.81	2.84
22.00	DISCHG	2.81	2.74	2.68	2.64	2.58	2.49	2.41	2.39	2.43	2.45
24.00	DISCHG	2.40	2.23	1.87	1.36	.88	.54	.32	.19	.12	.07
26.00	DISCHG	.04	.02	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5201 CFS-HRS= 93.98 ACRE-FT= 7.77

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	40.989	(NULL)
21.79	3.239	(NULL)
23.76	2.799	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.37	3.51
12.00	DISCHG	12.86	27.24	38.43	40.97	37.43	31.45	26.16	21.81	18.29	15.59
14.00	DISCHG	13.46	11.86	10.62	9.66	8.89	8.27	7.79	7.39	7.03	6.68
16.00	DISCHG	6.35	6.04	5.76	5.53	5.36	5.24	5.15	5.05	4.94	4.81
18.00	DISCHG	4.66	4.51	4.35	4.19	4.06	3.96	3.90	3.87	3.84	3.80
20.00	DISCHG	3.72	3.62	3.54	3.48	3.41	3.31	3.22	3.19	3.22	3.24
22.00	DISCHG	3.21	3.15	3.09	3.03	2.97	2.87	2.79	2.76	2.78	2.80
24.00	DISCHG	2.75	2.58	2.21	1.69	1.17	.76	.49	.30	.19	.12
26.00	DISCHG	.07	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5199 CFS-HRS= 107.38 ACRE-FT= 8.87

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 5400.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	791.273	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.10	.50	1.35	2.65	4.98	9.79	25.29	116.67
12.00	DISCHG	341.40	588.09	705.45	753.28	790.70	769.35	684.24	570.76	463.28	377.07
14.00	DISCHG	311.74	264.41	229.75	203.95	184.48	169.19	157.12	147.08	138.78	131.51
16.00	DISCHG	124.59	118.44	112.85	107.89	103.91	100.86	98.32	95.85	93.62	91.36
18.00	DISCHG	88.81	86.12	83.13	80.15	77.63	75.55	73.86	72.64	71.77	70.70
20.00	DISCHG	69.26	67.91	66.73	65.51	63.87	61.90	60.48	60.04	59.94	59.40
22.00	DISCHG	58.53	57.90	57.39	56.65	55.30	53.47	52.12	51.73	51.64	51.09
24.00	DISCHG	50.18	47.89	42.20	34.83	27.89	21.14	14.74	9.48	5.78	3.44
26.00	DISCHG	2.02	1.18	.68	.38	.21	.10	.00			

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.81	828.246	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.10	.50	1.35	2.65	4.98	9.79	25.66	120.18
12.00	DISCHG	354.26	615.33	743.88	794.25	828.13	800.80	710.40	592.57	481.57	392.65
14.00	DISCHG	325.19	276.27	240.37	213.61	193.37	177.46	164.92	154.47	145.81	138.19
16.00	DISCHG	130.94	124.48	118.61	113.41	109.27	106.10	103.46	100.90	98.56	96.18
18.00	DISCHG	93.48	90.64	87.48	84.34	81.69	79.51	77.77	76.51	75.61	74.50
20.00	DISCHG	72.98	71.53	70.27	68.99	67.27	65.20	63.70	63.23	63.16	62.64
22.00	DISCHG	61.74	61.05	60.48	59.69	58.27	56.35	54.91	54.49	54.42	53.88
24.00	DISCHG	52.94	50.47	44.41	36.52	29.06	21.90	15.22	9.79	5.97	3.56
26.00	DISCHG	2.10	1.22	.70	.39	.21	.10	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7136 CFS-HRS= 2390.30 ACRE-FT= 197.53

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.13	810.509	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.19

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.05	.30	.89	1.91	3.67	7.15	17.38
12.00	DISCHG	72.79	229.86	457.96	641.49	743.78	798.99	806.39	755.21	660.68	552.40
14.00	DISCHG	453.56	373.22	312.09	266.79	233.23	208.12	188.88	173.87	161.78	151.84
16.00	DISCHG	143.40	135.75	128.81	122.54	116.92	112.16	108.36	105.31	102.60	100.12
18.00	DISCHG	97.72	95.17	92.43	89.45	86.35	83.48	81.02	78.99	77.43	76.28
20.00	DISCHG	75.20	73.89	72.46	71.12	69.82	68.31	66.46	64.75	63.72	63.32
22.00	DISCHG	62.93	62.25	61.51	60.87	60.17	59.07	57.47	55.89	54.94	54.57
24.00	DISCHG	54.18	53.47	51.79	47.66	41.14	33.83	26.57	19.63	13.53	8.77
26.00	DISCHG	5.44	3.28	1.94	1.14	.65	.36	.19	.07	.02	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7136 CFS-HRS= 2390.17 ACRE-FT= 197.52

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.13	810.509	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.05	.30	.89	1.91	3.67	7.15	17.38
12.00	DISCHG	72.79	229.86	457.96	641.49	743.78	798.99	806.39	755.21	660.68	552.40

14.00	DISCHG	453.56	373.22	312.09	266.79	233.23	208.12	188.88	173.87	161.78	151.84
16.00	DISCHG	143.40	135.75	128.81	122.54	116.92	112.16	108.36	105.31	102.60	100.12
18.00	DISCHG	97.72	95.17	92.43	89.45	86.35	83.48	81.02	78.99	77.43	76.28
20.00	DISCHG	75.20	73.89	72.46	71.12	69.82	68.31	66.46	64.75	63.72	63.32
22.00	DISCHG	62.93	62.25	61.51	60.87	60.17	59.07	57.47	55.89	54.94	54.57
24.00	DISCHG	54.18	53.47	51.79	47.66	41.14	33.83	26.57	19.63	13.53	8.77
26.00	DISCHG	5.44	3.28	1.94	1.14	.65	.36	.19	.07	.02	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4039 CFS-HRS= 2390.17 ACRE-FT= 197.52

ENDCMP

SUMMARY TABLE 1

ALT	STORM	ID	DA SQ-MI.	RAIN TBLE	AMC	DELTA-T HRS.	TZERO HRS.	PRECIP IN.	PRECIP DURATION	PEAK-Q CFS	PEAK-TIME	PEAK-ELEV	RUNOFF IN.	CSM
3	1	1	3.25	2	2	.20	.00	3.70	24.00	1990.44	12.41	.00	1.87	612.44
3	1	2	.34	2	2	.20	.00	3.70	24.00	270.92	12.03	.00	1.51	796.82
3	1	102	3.59	2	2	.20	.00	3.70	24.00	1975.18	12.56	.00	1.84	550.19
3	1	3	.62	2	2	.20	.00	3.70	24.00	621.49	12.00	.00	1.80	1002.41
3	1	103	4.21	2	2	.20	.00	3.70	24.00	2062.08	12.61	.00	1.83	489.81
3	1	4	.66	2	2	.20	.00	3.70	24.00	634.87	12.11	.00	2.03	961.93
3	1	104	4.87	2	2	.20	.00	3.70	24.00	2167.52	12.68	.00	1.86	445.08
3	1	5	.68	2	2	.20	.00	3.70	24.00	848.94	11.96	.00	2.00	1248.44
3	1	8	.52	2	2	.20	.00	3.70	24.00	363.38	12.14	.00	1.51	698.81
3	1	108	1.20	2	2	.20	.00	3.70	24.00	931.32	12.24	.00	1.80	776.10
3	1	6	1.10	2	2	.20	.00	3.70	24.00	913.08	12.20	.00	1.95	830.08
3	1	9	.79	2	2	.20	.00	3.70	24.00	481.99	12.24	.00	1.51	610.12
3	1	109	3.09	2	2	.20	.00	3.70	24.00	1983.62	12.46	.00	1.78	641.95
3	1	310	3.09	2	2	.20	.00	3.70	24.00	1489.99	12.54	.00	.67	482.20
3	1	410	.43	2	2	.20	.00	3.70	24.00	112.86	12.23	.00	.71	262.47
3	1	411	.00	2	2	.20	.00	3.70	24.00	710.55	13.10	.00	.00	.00
3	1	510	3.52	2	2	.20	.00	3.70	24.00	618.55	13.42	.00	.32	175.72
3	1	511	.00	2	2	.20	.00	3.70	24.00	820.56	13.10	.00	.00	.00
3	1	610	.46	2	2	.20	.00	3.70	24.00	88.14	12.47	.00	.71	191.61
3	1	611	.00	2	2	.20	.00	3.70	24.00	940.56	13.10	.00	.00	.00
3	1	710	3.98	2	2	.20	.00	3.70	24.00	250.03	14.14	.00	.10	62.82
3	1	711	.00	2	2	.20	.00	3.70	24.00	1028.95	13.18	.00	.00	.00
3	1	209	.04	2	2	.20	.00	3.70	24.00	33.26	12.01	.00	1.51	831.61
3	1	208	.28	2	2	.20	.00	3.70	24.00	130.89	12.46	.00	1.51	467.45
3	1	208	.32	2	2	.20	.00	3.70	24.00	139.83	12.49	.00	1.51	436.96
3	1	211	5.19	2	2	.20	.00	3.70	24.00	2284.64	12.72	.00	1.83	440.20
3	1	712	9.17	2	2	.20	.00	3.70	24.00	2239.55	13.02	.00	1.08	244.23
3	2	1	3.25	2	2	.20	.00	3.25	24.00	1588.55	12.41	.00	1.51	488.79
3	2	2	.34	2	2	.20	.00	3.25	24.00	209.23	12.04	.00	1.19	615.39
3	2	102	3.59	2	2	.20	.00	3.25	24.00	1575.95	12.57	.00	1.48	438.98
3	2	3	.62	2	2	.20	.00	3.25	24.00	495.09	12.01	.00	1.44	798.54
3	2	103	4.21	2	2	.20	.00	3.25	24.00	1645.48	12.62	.00	1.47	390.85
3	2	4	.66	2	2	.20	.00	3.25	24.00	515.24	12.12	.00	1.65	780.66
3	2	104	4.87	2	2	.20	.00	3.25	24.00	1743.21	12.71	.00	1.49	357.95
3	2	5	.68	2	2	.20	.00	3.25	24.00	692.00	11.96	.00	1.63	1017.65
3	2	8	.52	2	2	.20	.00	3.25	24.00	281.28	12.15	.00	1.19	540.92
3	2	108	1.20	2	2	.20	.00	3.25	24.00	741.55	12.25	.00	1.44	617.96
3	2	6	1.10	2	2	.20	.00	3.25	24.00	735.09	12.21	.00	1.58	668.26
3	2	9	.79	2	2	.20	.00	3.25	24.00	370.77	12.25	.00	1.19	469.33
3	2	109	3.09	2	2	.20	.00	3.25	24.00	1575.01	12.47	.00	1.42	509.71
3	2	310	3.09	2	2	.20	.00	3.25	24.00	1102.14	12.55	.00	.46	356.68
3	2	410	.43	2	2	.20	.00	3.25	24.00	71.89	12.25	.00	.50	167.20
3	2	411	.00	2	2	.20	.00	3.25	24.00	701.80	12.90	.00	.00	.00
3	2	510	3.52	2	2	.20	.00	3.25	24.00	356.74	13.40	.00	.17	101.35
3	2	511	.00	2	2	.20	.00	3.25	24.00	811.81	12.90	.00	.00	.00
3	2	610	.46	2	2	.20	.00	3.25	24.00	56.26	12.50	.00	.50	122.31
3	2	611	.00	2	2	.20	.00	3.25	24.00	930.70	13.04	.00	.00	.00
3	2	710	3.98	2	2	.20	.00	3.25	24.00	38.69	14.06	.00	.01	9.72
3	2	711	.00	2	2	.20	.00	3.25	24.00	967.89	13.04	.00	.00	.00
3	2	209	.04	2	2	.20	.00	3.25	24.00	25.73	12.02	.00	1.19	643.37
3	2	208	.28	2	2	.20	.00	3.25	24.00	100.49	12.47	.00	1.19	358.89
3	2	208	.32	2	2	.20	.00	3.25	24.00	106.12	12.50	.00	1.19	331.61
3	2	211	5.19	2	2	.20	.00	3.25	24.00	1819.10	12.74	.00	1.48	350.50

3	2	712	9.17	2	2	.20	.00	3.25	24.00	1781.75	13.04	.00	.84	194.30
3	3	1	3.25	2	2	.20	.00	2.80	24.00	1203.54	12.43	.00	1.16	370.32
3	3	2	.34	2	2	.20	.00	2.80	24.00	151.39	12.05	.00	.88	445.25
3	3	102	3.59	2	2	.20	.00	2.80	24.00	1193.66	12.58	.00	1.13	332.50
3	3	3	.62	2	2	.20	.00	2.80	24.00	374.13	12.02	.00	1.10	603.43
3	3	103	4.21	2	2	.20	.00	2.80	24.00	1246.46	12.64	.00	1.13	296.07
3	3	4	.66	2	2	.20	.00	2.80	24.00	399.43	12.12	.00	1.29	605.20
3	3	104	4.87	2	2	.20	.00	2.80	24.00	1322.75	12.72	.00	1.15	271.61
3	3	5	.68	2	2	.20	.00	2.80	24.00	539.42	11.97	.00	1.27	793.27
3	3	8	.52	2	2	.20	.00	2.80	24.00	204.22	12.17	.00	.88	392.74
3	3	108	1.20	2	2	.20	.00	2.80	24.00	560.17	12.26	.00	1.11	466.81
3	3	6	1.10	2	2	.20	.00	2.80	24.00	563.51	12.21	.00	1.22	512.28
3	3	9	.79	2	2	.20	.00	2.80	24.00	266.60	12.26	.00	.88	337.47
3	3	109	3.09	2	2	.20	.00	2.80	24.00	1185.42	12.48	.00	1.09	383.63
3	3	310	3.09	2	2	.20	.00	2.80	24.00	732.40	12.57	.00	.28	237.02
3	3	410	.43	2	2	.20	.00	2.80	24.00	37.94	12.28	.00	.32	88.24
3	3	411	.00	2	2	.20	.00	2.80	24.00	720.55	12.90	.00	.00	.00
3	3	510	3.52	2	2	.20	.00	2.80	24.00	116.48	13.36	.00	.05	33.09
3	3	511	.00	2	2	.20	.00	2.80	24.00	830.56	12.90	.00	.00	.00
3	3	610	.46	2	2	.20	.00	2.80	24.00	30.24	12.58	.00	.32	65.74
3	3	611	.00	2	2	.20	.00	2.80	24.00	874.30	12.95	.00	.00	.00
3	3	710	3.98	2	2	.20	.00	2.80	24.00	.00	.00	.00	.00	.00
3	3	711	.00	2	2	.20	.00	2.80	24.00	898.05	12.95	.00	.00	.00
3	3	209	.04	2	2	.20	.00	2.80	24.00	18.66	12.03	.00	.88	466.59
3	3	208	.28	2	2	.20	.00	2.80	24.00	72.08	12.48	.00	.88	257.45
3	3	208	.32	2	2	.20	.00	2.80	24.00	76.12	12.53	.00	.88	237.87
3	3	211	5.19	2	2	.20	.00	2.80	24.00	1374.37	12.76	.00	1.13	264.81
3	3	712	9.17	2	2	.20	.00	2.80	24.00	1344.83	13.07	.00	.64	146.65
3	4	1	3.25	2	2	.20	.00	2.20	24.00	728.44	12.45	.00	.73	224.14
3	4	2	.34	2	2	.20	.00	2.20	24.00	82.52	12.08	.00	.52	242.71
3	4	102	3.59	2	2	.20	.00	2.20	24.00	722.25	12.61	.00	.71	201.18
3	4	3	.62	2	2	.20	.00	2.20	24.00	225.12	12.03	.00	.69	363.10
3	4	103	4.21	2	2	.20	.00	2.20	24.00	754.23	12.66	.00	.71	179.15
3	4	4	.66	2	2	.20	.00	2.20	24.00	254.05	12.14	.00	.84	384.92
3	4	104	4.87	2	2	.20	.00	2.20	24.00	803.76	12.76	.00	.73	165.04
3	4	5	.68	2	2	.20	.00	2.20	24.00	346.64	11.98	.00	.82	509.77
3	4	8	.52	2	2	.20	.00	2.20	24.00	112.35	12.19	.00	.52	216.06
3	4	108	1.20	2	2	.20	.00	2.20	24.00	337.29	12.28	.00	.70	281.08
3	4	6	1.10	2	2	.20	.00	2.20	24.00	349.62	12.23	.00	.78	317.84
3	4	9	.79	2	2	.20	.00	2.20	24.00	143.15	12.28	.00	.52	181.21
3	4	109	3.09	2	2	.20	.00	2.20	24.00	700.34	12.52	.00	.68	226.65
3	4	310	3.09	2	2	.20	.00	2.20	24.00	279.98	12.60	.00	.08	90.61
3	4	410	.43	2	2	.20	.00	2.20	24.00	8.33	12.55	.00	.13	19.37
3	4	411	.00	2	2	.20	.00	2.20	24.00	680.00	12.60	.00	.00	.00
3	4	510	3.52	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
3	4	511	.00	2	2	.20	.00	2.20	24.00	688.31	12.60	.00	.00	.00
3	4	610	.46	2	2	.20	.00	2.20	24.00	7.97	12.83	.00	.13	17.32
3	4	611	.00	2	2	.20	.00	2.20	24.00	688.31	12.60	.00	.00	.00
3	4	710	3.98	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
3	4	711	.00	2	2	.20	.00	2.20	24.00	695.59	12.60	.00	.00	.00
3	4	209	.04	2	2	.20	.00	2.20	24.00	10.22	12.05	.00	.52	255.50
3	4	208	.28	2	2	.20	.00	2.20	24.00	38.23	12.53	.00	.52	136.55
3	4	208	.32	2	2	.20	.00	2.20	24.00	40.99	12.58	.00	.52	128.09
3	4	211	5.19	2	2	.20	.00	2.20	24.00	828.25	12.81	.00	.71	159.58
3	4	712	9.17	2	2	.20	.00	2.20	24.00	810.51	13.13	.00	.40	88.39

SUMMARY TABLE 3

	DISCHARGE,CFS									
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
XSEC/STRUC NO. 1 ALTERNATE 3	1990.44	1588.55	1203.54	728.44	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 2 ALTERNATE 3	270.92	209.23	151.39	82.52	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 3 ALTERNATE 3	621.49	495.09	374.13	225.12	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 4 ALTERNATE 3	634.87	515.24	399.43	254.05	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 5 ALTERNATE 3	848.94	692.00	539.42	346.64	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 6 ALTERNATE 3	913.08	735.09	563.51	349.62	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 8 ALTERNATE 3	363.38	281.28	204.22	112.35	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 9 ALTERNATE 3	481.99	370.77	266.60	143.15	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.102 ALTERNATE 3	1975.18	1575.95	1193.66	722.25	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.103 ALTERNATE 3	2062.08	1645.48	1246.46	754.23	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.104 ALTERNATE 3	2167.52	1743.21	1322.75	803.76	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.108 ALTERNATE 3	931.32	741.55	560.17	337.29	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.109 ALTERNATE 3	1983.62	1575.01	1185.42	700.34	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.208 ALTERNATE 3	139.83	106.12	76.12	40.99	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.209 ALTERNATE 3	33.26	25.73	18.66	10.22	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.211 ALTERNATE 3	2294.64	1819.10	1374.37	828.25	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.310 ALTERNATE 3	1499.99	1102.14	732.40	279.98	.00	.00	.00	.00	.00	.00

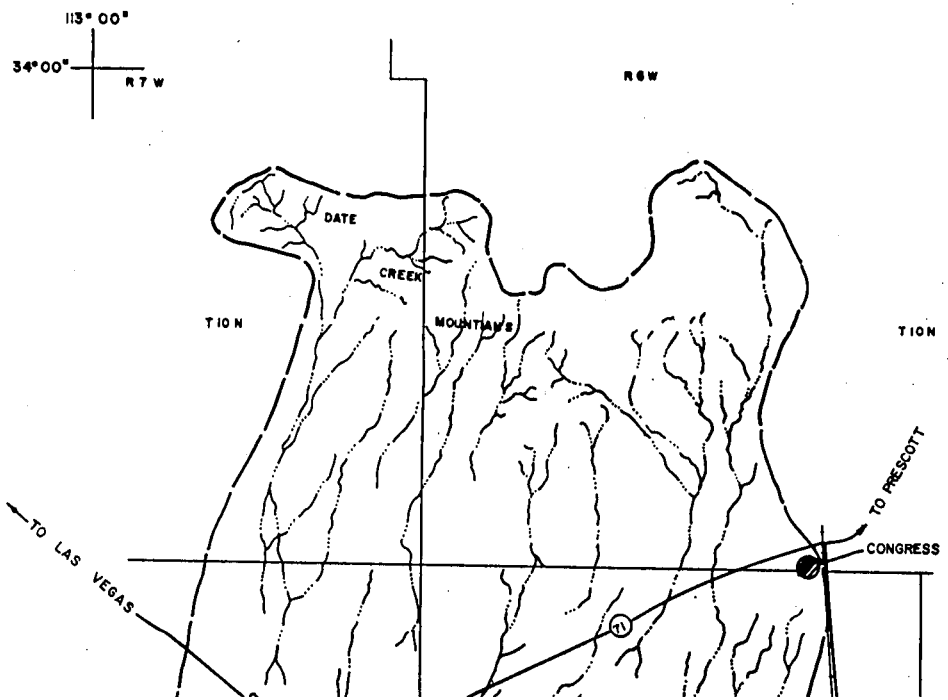
XSEC/STRUC NO.410 ALTERNATE 3	112.86	71.89	37.94	8.33	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.411 ALTERNATE 3	710.55	701.80	720.55	680.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.510 ALTERNATE 3	618.55	356.74	116.48	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.511 ALTERNATE 3	820.56	811.81	830.56	688.31	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.610 ALTERNATE 3	88.14	56.26	30.24	7.97	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.611 ALTERNATE 3	940.56	930.70	874.30	688.31	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.710 ALTERNATE 3	250.03	38.69	.00	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.711 ALTERNATE 3	1028.95	967.89	898.05	695.59	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.712 ALTERNATE 3	2239.55	1781.75	1344.83	810.51	.00	.00	.00	.00	.00	.00

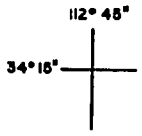
ENDJOB CARD ENCOUNTERED. END OF JOB.

```
FILEN (DES/TR20.RCH2,,ECOS)

JOB        TR20      NOSCON    FULLPRINT                                          A071
TITLE        03/15/82RWCD,REACH 2,INLET HYDROLOGY(EXISTING CONDITION)             B072
 6 RUNOFF 1 001        6 3.25        31.          0.90        1 1    1    1      1089
 6 REACH  3 102   6    5 3000.       0.75                                        2089
 6 RUNOFF 1 002        6 0.34        74.          0.31        1 1    1    1      3089
 6 ADDHYD 4 102   5 6 7                                       1 1    1    1      4089
 6 REACH  3 103   7    5 2000.       0.75                                        5089
 6 RUNOFF 1 003        6 0.62        80.          0.28        1 1    1    1      6089
 6 ADDHYD 4 103   5 6 7                                       1 1    1    1      7089
 6 REACH  3 104   7    5 2800.       0.75                                        8089
 6 RUNOFF 1 004        6 0.66        83.          0.44        1 1    1    1      9089
 6 ADDHYD 4 104   5 6 7                                       1 1    1    1     10089
 6 SAVMOV 5 104   7    1                                                         11089
 6 RUNOFF 1 005        6 0.68        83.          0.20        1 1    1    1     12089
 6 REACH  3 108   6    5 5000.       0.65                                       13089
 6 RUNOFF 1 008        6 0.52        76.          0.45        1 1    1    1     14089
 6 ADDHYD 4 108   5 6 7                                       1 1    1    1     15089
 6 DIVERT 6 108   7 2 3 2000.        1.00                                       16089
 6 REACH  3 109   2    5 3000.       0.65                     1 1    1          17089
 6 SAVMOV 5 109   5    2                                                         18089
 6 RUNOFF 1 006        6 1.10        82.          0.58        1 1    1    1     19089
 6 REACH  3 109   6    5 6500.       0.75                                       20089
 6 RUNOFF 1 009        6 0.79        76.          0.63        1 1    1    1     21089
 6 ADDHYD 4 109   5 6 7                                       1 1    1          22089
 6 SAVMOV 5 109   7    5                                                         23089
 6 SAVMOV 5 109   2    6                                                         24089
 6 ADDHYD 4 109   5 6 7                                       1 1    1    1     25089
 6 DIVERT 6 109   7 2 4 400.         0.0                                        26089
 6 REACH  3 310   4    5 900.        0.63                     1 1    1    1     27089
 6 DIVERT 6 310   5 4 6 300.         0.0                                        28089
 6 REACH  3 410   6    5 2000.       0.45                     1      1          29089
 6 RUNOFF 1 410        6 0.43        62.          0.50        1 1    1    1     30089
 6 ADDHYD 4 410   5 6 7                                       1 1    1          31089
 6 ADDHYD 4 411   2 4 5                                       1 1         1     32089
 6 SAVMOV 5 411   5    2                                                        32A089
 6 DIVERT 6 410   7 4 6 110.         0.0                                       32B089
 6 REACH  3 510   6    5 3200.       0.45                     1 1    1    1     33089
 6 ADDHYD 4 511   2 4 7                                       1 1         1     36089
 6 SAVMOV 5 511   7    2                                                         37089
 6 DIVERT 6 510   5 4 6 120.         0.0                                       38089
 6 REACH  3 610   6    5 3400.       0.45                     1 1    1          39089
 6 RUNOFF 1 610        6 0.46        62.          0.81        1 1    1    1     40089
 6 ADDHYD 4 610   5 6 7                                       1 1    1          41089
 6 ADDHYD 4 611   2 4 5                                       1 1    1    1     42089
 6 SAVMOV 5 611   5    2                                                        42A089
 6 DIVERT 6 610   7 4 6 130.         0.0                                       42B089
 6 REACH  3 710   6    5 700.        0.45                     1 1    1    1     43089
 6 ADDHYD 4 711   2 4 7                                       1 1         1     44089
 6 SAVMOV 5 711   7    2                                                         45089
 6 SAVMOV 5 710   5    4                                                         46089
 6 RUNOFF 1 209        6 0.04        76.          0.28        1 1    1    1     47089
 6 ADDHYD 4 209   3 6 7                                       1 1               48089
 6 REACH  3 208   7    5 5900.       0.47                     1 1    1          49089
 6 RUNOFF 1 208        6 0.28        76.          0.95        1 1    1    1     50089
 6 ADDHYD 4 208   5 6 7                                       1 1    1    1     51089
 6 SAVMOV 5 208   7    6                                                         52089
 6 REACH  3 211   1    5 5400.       0.90                     1 1               53089
 6 ADDHYD 4 211   5 6 7                                       1 1    1    1     54089
 6 REACH  3 712   7    5 6300.       0.75                     1 1    1          55089
 6 ADDHYD 4 712   5 4 7                                       1 1    1    1     56089
```

```
7
7 IN[illegible]M 6                0.20
7 COMPUT 7 001    712    0.0          3.70          1.00          2 2   03   01
  ENDCMP 1
7 COMPUT 7 001    712    0.0          3.25          1.00          2 2   03   02
  ENDCMP 1
7 COMPUT 7 001    712    0.0          2.80          1.00          2 2   03   03
  ENDCMP 1
7 COMPUT 7 001    712    0.0          2.20          1.00          2 2   03   04
  ENDCMP 1
  ENDJOB 2
```

57070
58068
59068
60068
61070
62068
63070
64068
65070
66068
67070
68070





U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

INLET HYD W/NEW DIV IN SECT 16,21,28,T3S,R6E 03/15/82

TR-20 HYDROLOGY

With New Diversion
Without Area 7

Q_{100}, Q_{50}, Q_{25} & Q_{10}

4

EXECUTIVE CONTROL CARD 55 OPERATION LIST

LISTING OF DATA IN CORE

0 INLET HYD W/NEW DIV IN SECT 16,21,28,T3S,R6E

VELOCITY INCREMENT

1 CTABLE .2000

8	.0000	.0800	.1800	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300

9 ENDTBL

TIME INCREMENT

4 DIMHYD

8	.0000	.0300	.1000	.1900	.3100
8	.4700	.6600	.8200	.9300	.9900
8	1.0000	.9900	.9300	.8600	.7800
8	.6800	.5600	.4600	.3900	.3300
8	.2800	.2410	.2070	.1740	.1470
8	.1260	.1070	.0910	.0770	.0660
8	.0550	.0470	.0400	.0340	.0290
8	.0250	.0210	.0180	.0150	.0130
8	.0110	.0090	.0080	.0070	.0060
8	.0050	.0040	.0030	.0020	.0010
8	.0000	.0000	.0000	.0000	.0000

9 ENDTBL

COMPUTED PEAK K FACTOR = 484.00

TIME INCREMENT

5 RAINFL 1 .5000

```
8                .0000        .0080        .0170        .0260        .0350
8                .0450        .0550        .0650        .0760        .0870
8                .0990        .1120        .1250        .1400        .1560
8                .1740        .1940        .2190        .2540        .3030
8                .5150        .5830        .6240        .6540        .6820
8                .7050        .7270        .7480        .7670        .7840
8                .8000        .8160        .8300        .8440        .8570
8                .8700        .8820        .8930        .9050        .9160
8                .9260        .9360        .9460        .9550        .9650
8                .9740        .9830        .9920       1.0000       1.0000
9 ENDTBL

                   TIME INCREMENT
5 RAINFL 2                   .5000

8                .0000        .0050        .0110        .0160        .0220
8                .0280        .0350        .0410        .0480        .0560
8                .0630        .0710        .0800        .0890        .0980
8                .1090        .1200        .1330        .1470        .1630
8                .1810        .2040        .2350        .2830        .6630
8                .7350        .7720        .7990        .8200        .8380
8                .8540        .8680        .8800        .8910        .9020
8                .9120        .9210        .9290        .9370        .9450
8                .9520        .9590        .9650        .9720        .9780
8                .9840        .9890        .9950       1.0000       1.0000
9 ENDTBL

                   TIME INCREMENT
5 RAINFL 3                   .0200

8                .0000        .0080        .0162        .0246        .0333
8                .0425        .0524        .0630        .0743        .0863
8                .0990        .1124        .1265        .1420        .1600
8                .1800        .2050        .2550        .3450        .4370
8                .5300        .6030        .6330        .6600        .6840
8                .7050        .7240        .7420        .7590        .7750
8                .7900        .8043        .8180        .8312        .8439
8                .8561        .8678        .8790        .8898        .9002
8                .9103        .9201        .9297        .9391        .9483
8                .9573        .9661        .9747        .9832        .9916
8               1.0000       1.0000       1.0000       1.0000       1.0000
9 ENDTBL
```

STANDARD CONTROL INSTRUCTIONS

```
6 RUNOFF 1   1        6      3.2500     81.0000      .90001 1 0 1 0 1
6 REACH  3 102   6    5   3000.0000       .7500      .00000 0 0 0 0 0
6 RUNOFF 1   2        6       .3400     76.0000      .31001 1 0 1 0 1
6 ADDHYD 4 102   5 6 7                                     1 1 0 1 0 1
6 REACH  3 103   7    5   2000.0000       .7500      .00000 0 0 0 0 0
6 RUNOFF 1   3        6       .6200     80.0000      .28001 1 0 1 0 1
6 ADDHYD 4 103   5 6 7                                     1 1 0 1 0 1
6 REACH  3 104   7    5   2800.0000       .7500      .00000 0 0 0 0 0
6 RUNOFF 1   4        6       .6600     83.0000      .44001 1 0 1 0 1
6 ADDHYD 4 104   5 6 7                                     1 1 0 1 0 1
6 REACH  3 205   7    1   2200.0000       .7500      .00001 1 0 1 0 0
6 RUNOFF 1   6        6      1.1000     82.0000      .59001 1 0 1 0 1
6 REACH  3 105   6    5   4200.0000       .7500      .00000 0 0 0 0 0
6 RUNOFF 1   5        6       .6800     83.0000      .20001 1 0 1 0 1
6 ADDHYD 4 105   5 6 7                                     1 1 0 1 0 1
6 REACH  3 205   7    5   3000.0000       .7500      .00001 1 0 0 1 0
6 ADDHYD 4 205   5 1 7                                     1 1 0 0 1 1
6 REACH  3 211   7    1   3200.0000       .9000      .00001 1 0 1 0 0
6 RUNOFF 1   8        6       .5200     76.0000      .45001 1 0 1 0 1
6 DIVERT 6   8   6 2 3   2000.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 109   2    5   3000.0000       .6500      .00001 1 0 1 0 0
6 RUNOFF 1   9        6       .7900     76.0000      .63001 1 0 1 0 1
6 ADDHYD 4 109   5 6 7                                     1 1 0 1 0 1
6 DIVERT 6 109   7 2 4    400.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 310   4    5    900.0000       .6300      .00001 1 0 1 0 1
6 DIVERT 6 310   5 4 6    300.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 410   6    5   2000.0000       .4500      .00001 0 0 1 0 0
6 RUNOFF 1 410        6       .4300     62.0000      .50001 1 0 1 0 1
6 ADDHYD 4 410   5 6 7                                     1 1 0 1 0 0
6 ADDHYD 4 411   2 4 5                                     1 1 0 0 0 1
6 SAVMOV 5 411   5    2
6 DIVERT 6 410   7 4 6    110.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 510   6    5   3200.0000       .4500      .00001 1 0 1 0 1
6 ADDHYD 4 511   2 4 7                                     1 1 0 0 0 1
6 SAVMOV 5 511   7    2
6 DIVERT 6 510   5 4 6    120.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 610   6    5   3400.0000       .4500      .00001 1 0 1 0 0
6 RUNOFF 1 610        6       .4600     62.0000      .81001 1 0 1 0 1
6 ADDHYD 4 610   5 6 7                                     1 1 0 1 0 0
6 ADDHYD 4 611   2 4 5                                     1 1 0 0 0 1
6 SAVMOV 5 611   5    2
6 DIVERT 6 610   7 4 6    130.0000       .0000      .00000 0 0 0 0 0
6 REACH  3 710   6    5    700.0000       .4500      .00001 1 0 1 0 1
6 ADDHYD 4 711   2 4 7                                     1 1 0 0 0 1
6 SAVMOV 5 711   7    2
6 SAVMOV 5 710   5    4
6 RUNOFF 1 209        6       .0400     76.0000      .28001 1 0 1 0 1
6 ADDHYD 4 209   3 6 7                                     1 1 0 0 0 0
6 REACH  3 208   7    5   5800.0000       .4700      .00001 1 0 1 0 0
6 RUNOFF 1 208        6       .2800     76.0000      .95001 1 0 1 0 1
6 ADDHYD 4 208   5 6 7                                     1 1 0 1 0 1
6 SAVMOV 5 209   7    6
6 ADDHYD 4 211   1 6 7                                     1 1 0 1 0 1
```

```
6 REACH  3 712   7   5    6300.0000        .7500        .00001 1 0 1 0 0
6 ADDHYD 4 712   5 4 7                                     1 1 0 1 0 1
  ENDATA

END OF LISTING
```

PASS= 1

EXECUTIVE CONTROL CARD 56 OPERATION INCREM, MAIN TIME INCREMENT= .20
EXECUTIVE CONTROL CARD 57 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 3.70 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.41	1990.436	(RUNOFF)
21.76	83.681	(RUNOFF)
23.75	71.626	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.04	.32	1.18	2.98	5.57	8.88	12.89	17.50
10.00	DISCHG	22.68	28.78	36.45	45.83	57.64	73.45	94.10	122.65	208.35	508.80
12.00	DISCHG	1107.22	1757.58	1990.14	1786.09	1402.70	1054.20	811.40	632.74	511.84	427.92
14.00	DISCHG	365.40	319.08	285.11	258.34	237.27	221.51	209.45	198.37	188.32	178.62
16.00	DISCHG	169.04	160.26	152.68	146.51	141.99	139.18	137.02	134.27	130.79	126.74
18.00	DISCHG	122.37	117.92	113.24	108.79	105.25	102.96	101.73	101.01	100.39	98.88
20.00	DISCHG	96.28	93.41	91.20	89.62	87.66	84.69	82.26	81.87	83.12	83.65
22.00	DISCHG	82.45	80.38	78.61	77.28	75.43	72.52	70.12	69.74	71.01	71.56
24.00	DISCHG	69.89	64.49	52.74	37.10	23.04	13.23	7.91	4.64	2.66	1.55
26.00	DISCHG	.89	.48	.24	.11	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8696 CFS-HRS= 3921.43 ACRE-FT= 324.07

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	270.919	(RUNOFF)
16.91	12.668	(RUNOFF)
19.32	9.387	(RUNOFF)
21.50	8.217	(RUNOFF)
23.50	7.126	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.19	.72	1.46	2.33	3.96	5.25	8.31	12.22	32.09	156.55

12.00	DISCHG	268.43	214.01	104.56	76.11	49.72	40.91	35.16	30.30	28.68	24.65
14.00	DISCHG	23.27	21.71	20.27	19.76	18.43	17.97	16.99	16.03	15.57	14.23
16.00	DISCHG	13.74	13.18	12.69	12.59	12.60	12.62	12.16	11.67	11.45	10.75
18.00	DISCHG	10.50	9.98	9.46	9.35	9.34	9.35	9.36	9.38	9.26	8.56
20.00	DISCHG	8.31	8.26	8.26	8.13	7.44	7.18	7.63	8.16	8.14	7.47
22.00	DISCHG	7.22	7.17	7.16	7.03	6.32	6.06	6.51	7.04	7.04	6.34
24.00	DISCHG	6.05	3.50	.79	.16	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5142 CFS-HRS= 332.25 ACRE-FT= 27.46

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.56	1975.178	(NULL)
21.78	90.666	(NULL)
23.75	77.444	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.13	.58	1.70	3.66	6.40	9.87	14.01
10.00	DISCHG	18.93	24.98	32.15	41.11	52.64	66.93	87.00	113.69	180.35	456.66
12.00	DISCHG	947.57	1478.30	1870.88	1967.05	1722.66	1365.14	1046.09	809.97	641.61	522.62
14.00	DISCHG	440.12	378.85	333.33	299.84	272.78	252.37	236.28	223.16	211.81	200.42
16.00	DISCHG	190.22	180.34	171.38	164.05	158.29	154.19	150.96	148.03	144.85	140.55
18.00	DISCHG	136.21	131.33	126.30	121.61	117.43	114.23	112.18	111.02	110.15	108.52
20.00	DISCHG	106.47	103.85	101.24	99.05	96.59	94.05	91.81	90.56	90.50	90.66
22.00	DISCHG	90.40	89.03	87.16	85.39	83.13	80.72	78.53	77.30	77.27	77.43
24.00	DISCHG	76.98	71.74	61.88	48.86	34.06	21.30	12.58	7.47	4.38	2.53
26.00	DISCHG	1.47	.83	.45	.23	.10	.03	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8357 CFS-HRS= 4253.00 ACRE-FT= 351.47

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	621.494	(RUNOFF)
16.91	25.444	(RUNOFF)
19.31	18.750	(RUNOFF)
20.30	16.500	(RUNOFF)
21.48	16.400	(RUNOFF)
23.47	14.134	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.17	.70	1.47	2.34	3.23	4.43
10.00	DISCHG	5.48	7.43	9.53	11.69	16.32	19.40	28.28	37.67	96.07	409.73
12.00	DISCHG	621.41	424.90	200.73	149.77	96.47	82.45	69.93	60.98	57.76	49.33
14.00	DISCHG	47.03	43.51	40.82	39.84	36.96	36.22	33.97	32.16	31.29	28.32
16.00	DISCHG	27.55	26.34	25.41	25.28	25.29	25.32	24.23	23.32	22.84	21.37
18.00	DISCHG	20.97	19.77	18.83	18.67	18.66	18.68	18.70	18.72	18.41	16.94
20.00	DISCHG	16.52	16.46	16.46	16.16	14.65	14.26	15.34	16.31	16.21	14.71
22.00	DISCHG	14.30	14.24	14.23	13.91	12.39	11.99	13.08	14.06	13.91	12.44
24.00	DISCHG	12.02	6.04	1.11	.19	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7961 CFS-HRS= 718.68 ACRE-FT= 59.39

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	2062.084	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.08	.54	1.89	4.22	7.46	11.47	16.48
10.00	DISCHG	22.08	29.50	38.25	48.57	63.53	79.58	105.86	138.80	245.78	740.79
12.00	DISCHG	1341.17	1650.87	1879.47	2061.21	1924.79	1614.43	1269.67	986.64	782.27	630.60
14.00	DISCHG	527.89	452.44	396.48	356.12	322.93	298.58	278.11	261.70	248.60	234.20
16.00	DISCHG	222.68	211.42	201.11	192.89	186.39	181.53	176.77	172.76	169.20	163.94
18.00	DISCHG	159.25	153.42	147.53	142.53	138.11	134.47	131.90	130.32	128.99	126.21
20.00	DISCHG	123.96	121.55	118.95	116.27	112.41	109.52	108.23	107.50	106.78	105.30
22.00	DISCHG	104.82	103.89	102.27	100.15	96.59	93.86	92.66	91.98	91.24	89.80
24.00	DISCHG	89.20	80.14	67.56	55.17	41.10	27.47	16.89	10.04	5.93	3.46
26.00	DISCHG	2.00	1.15	.64	.34	.16	.06	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8295 CFS-HRS= 4970.75 ACRE-FT= 410.78

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	634.872	(RUNOFF)
19.31	21.137	(RUNOFF)
21.56	18.225	(RUNOFF)
23.56	15.656	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8.00	DISCHG	.33	.83	1.51	2.24	3.05	3.89	4.85	6.03	7.16	8.58
10.00	DISCHG	10.01	11.98	14.83	17.50	22.23	26.99	34.45	46.52	85.44	318.96
12.00	DISCHG	597.83	608.36	366.58	233.33	158.39	114.53	93.54	77.47	70.09	61.96
14.00	DISCHG	56.13	52.55	48.58	46.52	43.96	42.04	40.29	37.82	36.38	33.99
16.00	DISCHG	32.08	30.87	29.52	28.91	28.74	28.69	28.14	27.00	26.31	25.08
18.00	DISCHG	24.11	23.21	21.94	21.35	21.17	21.12	21.11	21.12	20.98	19.95
20.00	DISCHG	19.03	18.71	18.61	18.43	17.37	16.46	16.71	17.80	18.20	17.32
22.00	DISCHG	16.46	16.16	16.07	15.87	14.81	13.88	14.14	15.24	15.63	14.75
24.00	DISCHG	13.83	10.56	4.48	1.48	.49	.16	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0310 CFS-HRS= 865.09 ACRE-FT= 71.49

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.68	2167.518	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8.00	DISCHG	.33	.83	1.52	2.27	3.30	4.90	7.50	11.27	15.84	21.58
10.00	DISCHG	28.16	36.34	46.96	58.84	75.50	95.24	122.45	162.48	261.45	741.40
12.00	DISCHG	1523.63	2013.53	2072.31	2159.12	2151.56	1931.64	1604.22	1271.31	1006.12	806.67
14.00	DISCHG	662.55	562.01	487.20	433.16	391.47	358.92	333.50	311.67	294.69	278.41
16.00	DISCHG	263.25	250.39	239.09	227.88	219.95	213.86	208.34	202.70	198.11	192.64
18.00	DISCHG	186.75	180.71	173.66	167.53	162.50	158.26	154.95	152.67	150.96	148.02
20.00	DISCHG	144.63	141.97	139.40	136.61	132.43	128.12	126.02	125.89	125.51	123.61
22.00	DISCHG	121.71	120.69	119.43	117.49	113.81	109.74	107.81	107.77	107.40	105.52
24.00	DISCHG	103.52	96.42	80.62	65.48	51.50	37.39	24.77	15.31	9.16	5.41
26.00	DISCHG	3.16	1.83	1.05	.58	.30	.14	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8561 CFS-HRS= 5833.56 ACRE-FT= 482.09

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 2200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.75	2155.879	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
8.00	DISCHG	.19	.57	1.16	1.87	2.76	4.06	6.15	9.30	13.43	18.55
10.00	DISCHG	24.37	32.00	41.37	52.53	66.77	84.79	108.18	141.57	210.90	500.37

12.00	DISCHG	1118.02	1738.99	2021.18	2112.14	2151.51	2040.21	1774.61	1449.39	1151.39	916.84
14.00	DISCHG	742.58	618.09	528.65	463.18	414.47	376.84	347.49	323.58	304.04	287.20
16.00	DISCHG	271.44	257.40	244.73	233.45	224.31	217.22	211.34	205.73	200.62	195.54
18.00	DISCHG	189.89	183.94	177.40	170.86	165.25	160.58	156.77	153.95	151.91	149.55
20.00	DISCHG	146.43	143.43	140.79	138.10	134.62	130.43	127.24	126.05	125.71	124.56
22.00	DISCHG	122.72	121.27	120.10	118.50	115.71	111.90	108.94	107.88	107.59	106.46
24.00	DISCHG	104.59	100.01	88.71	73.61	59.06	44.97	31.61	20.53	12.62	7.54
26.00	DISCHG	4.44	2.59	1.49	.85	.46	.24	.10	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9554 CFS-HRS= 5831.29 ACRE-FT= 481.90

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.20	913.084	(RUNOFF)
21.63	29.411	(RUNOFF)
23.63	25.196	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.11	.56	1.38	2.45	3.67	5.05	6.68	8.43	10.42
10.00	DISCHG	12.61	15.28	18.99	23.16	29.01	36.21	45.90	61.21	108.16	340.66
12.00	DISCHG	726.14	913.06	725.21	483.07	334.92	238.02	183.20	148.12	125.71	109.84
14.00	DISCHG	97.68	89.84	83.07	78.22	74.16	70.47	67.48	63.84	60.85	57.55
16.00	DISCHG	54.12	51.71	49.47	47.93	47.28	47.03	46.46	44.96	43.62	42.02
18.00	DISCHG	40.29	38.84	36.95	35.54	34.93	34.67	34.58	34.56	34.43	33.36
20.00	DISCHG	31.88	31.01	30.65	30.34	29.21	27.71	27.36	28.45	29.40	28.85
22.00	DISCHG	27.60	26.81	26.48	26.17	25.04	23.54	23.19	24.26	25.18	24.64
24.00	DISCHG	23.25	19.62	11.99	5.51	2.41	1.04	.44	.18	.06	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9467 CFS-HRS= 1382.00 ACRE-FT= 114.21

SUBROUTINE REACH CROSS SECTION 105
LENGTH= 4200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .86

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.96	848.941	(RUNOFF)
16.90	29.804	(RUNOFF)
19.31	21.864	(RUNOFF)
20.30	19.218	(RUNOFF)
21.40	19.135	(RUNOFF)
22.30	16.596	(RUNOFF)
23.40	16.489	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
8.00	DISCHG	.73	1.49	2.26	3.06	3.99	4.80	6.20	7.33	8.58	10.36
10.00	DISCHG	11.56	15.34	17.79	21.40	28.31	31.48	48.48	58.08	198.33	648.64
12.00	DISCHG	832.94	358.35	194.84	157.72	100.91	94.99	76.02	70.32	65.85	55.91
14.00	DISCHG	54.90	49.23	47.47	46.01	42.66	42.34	38.54	37.32	35.85	32.41
16.00	DISCHG	32.06	30.13	29.52	29.51	29.54	29.57	27.64	27.02	26.27	24.54
18.00	DISCHG	24.36	22.36	21.75	21.71	21.72	21.74	21.76	21.78	21.06	19.31
20.00	DISCHG	19.12	19.12	19.13	18.42	16.64	16.47	18.45	19.13	18.48	16.69
22.00	DISCHG	16.51	16.50	16.51	15.78	13.99	13.81	15.82	16.49	15.81	14.03
24.00	DISCHG	13.83	3.57	.32	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0008 CFS-HRS= 878.07 ACRE-FT= 72.56

SUBROUTINE ADDHYD CROSS SECTION 105
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	1184.487	(NULL)
12.31	1048.701	(NULL)
21.52	46.956	(NULL)
23.51	40.114	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.78

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22
8.00	DISCHG	.73	1.51	2.40	3.62	5.31	7.14	9.74	12.24	15.08	18.60
10.00	DISCHG	21.75	27.73	32.87	40.02	51.15	59.97	84.11	103.49	261.39	773.09
12.00	DISCHG	1170.26	1021.96	1033.41	880.21	618.79	458.33	334.80	265.81	221.63	186.30
14.00	DISCHG	167.79	149.29	138.75	130.30	121.73	117.14	109.60	105.16	100.22	93.65
16.00	DISCHG	90.02	84.81	81.62	79.37	77.82	77.04	74.70	73.45	71.39	68.30
18.00	DISCHG	66.56	62.90	60.74	58.94	57.56	56.83	56.51	56.40	55.62	53.64
20.00	DISCHG	52.53	51.23	50.34	49.15	46.94	45.74	46.46	46.75	46.86	45.81
22.00	DISCHG	45.28	44.26	43.48	42.33	40.11	38.91	39.65	39.94	40.00	38.94
24.00	DISCHG	39.38	26.69	19.84	12.89	6.74	3.18	1.43	.63	.26	.10
26.00	DISCHG	.03	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9662 CFS-HRS= 2258.72 ACRE-FT= 186.66

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.27	1091.934	(NULL)
21.60	46.755	(NULL)
23.59	39.927	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.78

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
8.00	DISCHG	.37	.94	1.73	2.71	4.05	5.75	7.81	10.30	12.92	15.95
10.00	DISCHG	19.28	23.40	28.84	34.69	42.90	52.95	67.04	88.19	153.98	416.95
12.00	DISCHG	855.81	1077.00	1033.45	982.36	807.32	591.59	435.74	325.88	259.46	215.13
14.00	DISCHG	184.15	163.90	147.81	137.19	128.40	121.13	115.18	108.90	104.04	98.56
16.00	DISCHG	93.12	88.72	84.29	81.24	79.11	77.74	76.36	74.51	72.91	70.57
18.00	DISCHG	68.04	65.55	62.55	60.39	58.68	57.47	56.82	56.52	56.16	55.04
20.00	DISCHG	53.47	52.22	51.07	50.04	48.54	46.76	46.13	46.51	46.75	46.50
22.00	DISCHG	45.73	45.00	44.10	43.19	41.71	39.93	39.30	39.70	39.93	39.64
24.00	DISCHG	38.85	34.55	25.50	18.31	11.60	6.23	3.03	1.39	.61	.26
26.00	DISCHG	.10	.03	.00							

HYDROGRAPH 1 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE ADDHYD CROSS SECTION 205
INPUT HYDROGRAPHS= 5,1 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	3101.148	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 6.65

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10
8.00	DISCHG	.57	1.52	2.88	4.58	6.81	9.81	13.96	19.60	26.34	34.50
10.00	DISCHG	43.94	55.42	70.21	87.22	109.75	137.74	175.21	229.76	364.89	917.32
12.00	DISCHG	1973.83	2815.99	3054.62	3094.50	2958.83	2631.80	2210.35	1775.27	1410.85	1131.97
14.00	DISCHG	926.72	781.99	676.46	600.37	542.87	497.97	462.68	432.48	408.07	385.76
16.00	DISCHG	364.57	346.12	329.02	314.70	303.43	294.96	287.70	280.24	273.53	266.12
18.00	DISCHG	257.93	249.49	239.95	231.25	223.93	218.05	213.59	210.46	208.06	204.58
20.00	DISCHG	199.89	195.65	191.86	188.14	183.15	177.19	173.37	172.56	172.46	171.06
22.00	DISCHG	168.45	166.27	164.20	161.69	157.42	151.84	148.24	147.58	147.52	146.10
24.00	DISCHG	143.44	134.56	114.22	91.92	70.66	51.20	34.64	21.92	13.23	7.79
26.00	DISCHG	4.54	2.62	1.49	.85	.46	.24	.10	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8868 CFS-HRS= 8097.68 ACRE-FT= 669.19

HYDROGRAPH 2 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 3200.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.60	3084.072	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 6.65

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08

8.00	DISCHG	.44	1.27	2.53	4.14	6.23	9.02	12.87	18.12	24.57	32.36
10.00	DISCHG	41.46	52.40	66.33	82.75	103.83	130.39	165.37	215.43	329.41	772.32
12.00	DISCHG	1696.41	2594.64	2991.72	3083.95	2994.42	2717.66	2321.06	1889.58	1506.63	1205.28
14.00	DISCHG	980.68	820.04	704.20	620.37	557.98	509.77	471.95	440.41	414.49	391.63
16.00	DISCHG	370.14	350.96	333.51	318.46	306.39	297.19	289.61	282.20	275.29	268.06
18.00	DISCHG	260.08	251.71	242.46	233.54	225.85	219.59	214.76	211.29	208.69	205.50
20.00	DISCHG	201.12	196.77	192.86	189.12	184.46	178.76	174.37	172.77	172.49	171.43
22.00	DISCHG	169.14	166.85	164.75	162.35	158.54	153.30	149.18	147.75	147.53	146.47
24.00	DISCHG	144.14	136.89	119.56	97.78	76.24	56.31	38.99	25.26	15.51	9.22
26.00	DISCHG	5.39	3.12	1.79	1.02	.56	.29	.14	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8867 CFS-HRS= 8096.98 ACRE-FT= 669.13

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	363.383	(RUNOFF)
19.33	14.335	(RUNOFF)
21.57	12.430	(RUNOFF)
23.57	10.716	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.16	.71	1.67	2.85	4.72	6.91	10.25	15.65	33.53	150.35
12.00	DISCHG	319.52	357.05	227.60	148.69	102.15	74.62	61.29	50.95	46.05	40.89
14.00	DISCHG	37.05	34.76	32.22	30.87	29.22	27.96	26.86	25.28	24.33	22.77
16.00	DISCHG	21.50	20.70	19.83	19.42	19.31	19.29	18.95	18.22	17.75	16.96
18.00	DISCHG	16.31	15.71	14.88	14.46	14.34	14.31	14.31	14.33	14.25	13.57
20.00	DISCHG	12.95	12.73	12.67	12.56	11.86	11.23	11.39	12.11	12.42	11.85
22.00	DISCHG	11.26	11.05	10.99	10.87	10.16	9.52	9.68	10.41	10.71	10.14
24.00	DISCHG	9.51	7.34	3.21	1.09	.37	.12	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5145 CFS-HRS= 508.26 ACRE-FT= 42.00

SUBROUTINE DIVERT CROSS SECTION 8
INPUT HYDROGRAPH= 6 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.39	315.975	(NULL)
21.79	12.218	(NULL)
23.79	10.506	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.17	.64	1.46	2.60	4.27	6.41	9.58	15.51	39.35
12.00	DISCHG	132.30	264.84	315.64	247.32	174.88	122.12	88.12	68.64	55.99	48.64
14.00	DISCHG	42.93	38.66	35.72	33.19	31.43	29.79	28.42	27.19	25.78	24.63
16.00	DISCHG	23.22	21.96	21.01	20.16	19.64	19.41	19.29	18.99	18.41	17.88
18.00	DISCHG	17.18	16.52	15.88	15.15	14.66	14.44	14.35	14.33	14.32	14.21
20.00	DISCHG	13.71	13.17	12.86	12.72	12.54	12.01	11.49	11.49	11.95	12.22
22.00	DISCHG	11.91	11.44	11.17	11.03	10.85	10.31	9.78	9.78	10.24	10.51
24.00	DISCHG	10.19	9.51	7.61	4.38	2.04	.87	.35	.13	.04	.00

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 506.14 ACRE-FT= 41.83

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.24	481.992	(RUNOFF)
21.65	18.565	(RUNOFF)
23.65	15.935	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.13	.65	1.70	3.22	5.43	8.35	12.43	18.82	39.63	137.86
12.00	DISCHG	334.21	478.10	414.47	293.92	209.40	152.30	116.77	94.61	80.18	69.84
14.00	DISCHG	61.56	56.19	52.05	48.86	46.33	44.06	42.17	40.04	38.11	36.16
16.00	DISCHG	34.10	32.52	31.14	30.14	29.65	29.44	29.10	28.31	27.49	26.53
18.00	DISCHG	25.48	24.53	23.45	22.54	22.07	21.87	21.80	21.78	21.69	21.14
20.00	DISCHG	20.28	19.68	19.42	19.21	18.59	17.71	17.38	17.91	18.54	18.32
22.00	DISCHG	17.61	17.08	16.84	16.64	16.02	15.10	14.76	15.33	15.91	15.72
24.00	DISCHG	14.94	12.96	8.44	4.24	1.98	.93	.42	.19	.08	.03
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5135 CFS-HRS= 771.66 ACRE-FT= 63.77

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.29	772.988	(NULL)
21.71	30.652	(NULL)
23.71	26.337	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01

10.00	DISCHG	.15	.82	2.34	4.68	8.03	12.62	18.85	28.40	55.14	177.21
12.00	DISCHG	466.51	742.94	730.12	541.24	384.27	274.42	204.89	163.26	136.17	118.48
14.00	DISCHG	104.49	94.85	87.77	82.04	77.76	73.84	70.59	67.23	63.89	60.79
16.00	DISCHG	57.33	54.47	52.15	50.29	49.29	48.85	48.39	47.30	45.90	44.41
18.00	DISCHG	42.67	41.05	39.33	37.69	36.73	36.31	36.15	36.11	36.01	35.35
20.00	DISCHG	34.00	32.85	32.28	31.93	31.13	29.72	28.87	29.41	30.49	30.54
22.00	DISCHG	29.52	28.53	28.01	27.67	26.87	25.42	24.55	25.11	26.15	26.22
24.00	DISCHG	25.13	22.47	16.05	8.62	4.03	1.80	.77	.32	.12	.03
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.5063 CFS-HRS= 1277.80 ACRE-FT= 105.60

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	330.309	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	45.38	253.77	328.59	201.17	48.65	3.06	.19	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3501 CFS-HRS= 178.51 ACRE-FT= 14.75

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.63	13.113	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0121 CFS-HRS= 6.19 ACRE-FT= .51

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	112.862	(RUNOFF)

16.91	10.006	(RUNOFF)
19.38	7.608	(RUNOFF)
21.60	6.679	(RUNOFF)
23.59	5.813	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.33	13.39
12.00	DISCHG	66.98	111.99	88.81	63.28	47.42	35.79	29.83	25.20	22.48	20.25
14.00	DISCHG	18.40	17.27	16.11	15.42	14.72	14.11	13.63	12.90	12.42	11.74
16.00	DISCHG	11.09	10.69	10.27	10.04	9.99	9.99	9.87	9.54	9.30	8.95
18.00	DISCHG	8.61	8.32	7.91	7.66	7.59	7.58	7.59	7.61	7.58	7.30
20.00	DISCHG	6.97	6.83	6.79	6.74	6.43	6.09	6.12	6.47	6.68	6.46
22.00	DISCHG	6.15	6.01	5.97	5.91	5.60	5.25	5.27	5.62	5.81	5.59
24.00	DISCHG	5.27	4.27	2.16	.81	.31	.12	.04	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7115 CFS-HRS= 197.45 ACRE-FT= 16.32

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	112.996	(NULL)
16.91	10.006	(NULL)
19.38	7.608	(NULL)
21.60	6.679	(NULL)
23.59	5.813	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.33	13.39
12.00	DISCHG	66.98	111.99	90.18	76.19	54.21	39.36	31.70	26.19	23.00	20.52
14.00	DISCHG	18.54	17.34	16.15	15.45	14.73	14.11	13.63	12.90	12.42	11.74
16.00	DISCHG	11.09	10.69	10.27	10.04	9.99	9.99	9.87	9.54	9.30	8.95
18.00	DISCHG	8.61	8.32	7.91	7.66	7.59	7.58	7.59	7.61	7.58	7.30
20.00	DISCHG	6.97	6.83	6.79	6.74	6.43	6.09	6.12	6.47	6.68	6.46
22.00	DISCHG	6.15	6.01	5.97	5.91	5.60	5.25	5.27	5.62	5.81	5.59
24.00	DISCHG	5.27	4.27	2.16	.81	.31	.12	.04	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2586 CFS-HRS= 203.64 ACRE-FT= 16.83

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	702.407	(NULL)
21.71	30.652	(NULL)

23.71 26.337 (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.15	.82	2.34	4.68	8.03	12.62	18.85	28.40	55.14	177.21
12.00	DISCHG	445.38	653.77	700.00	601.17	432.92	277.48	205.09	163.26	136.17	118.48
14.00	DISCHG	104.49	94.85	87.77	82.04	77.76	73.84	70.59	67.23	63.89	60.79
16.00	DISCHG	57.33	54.47	52.15	50.29	49.29	48.85	48.39	47.30	45.90	44.41
18.00	DISCHG	42.67	41.05	39.33	37.69	36.73	36.31	36.15	36.11	36.01	35.35
20.00	DISCHG	34.00	32.85	32.28	31.93	31.13	29.72	28.87	29.41	30.49	30.54
22.00	DISCHG	29.52	28.53	28.01	27.67	26.87	25.42	24.55	25.11	26.15	26.22
24.00	DISCHG	25.13	22.47	16.05	8.62	4.03	1.80	.77	.32	.12	.03
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1270.49 ACRE-FT= 104.99

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.63	.562	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	.34	.56	.43	.28	.17	.10	.05	.03
14.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0005 CFS-HRS= .39 ACRE-FT= .03

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.34	796.910	(NULL)
21.68	37.277	(NULL)
23.69	32.072	(NULL)

```
TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=     .00
 .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .01
10.00   DISCHG          .15        .82       2.34       4.68       8.03      12.62      18.85      28.40      55.47     190.59
12.00   DISCHG       512.36     763.77     790.18     677.35     487.13     316.83     236.79     189.44     159.17     139.01
14.00   DISCHG       123.03     112.20     103.92      97.49      92.49      87.95      84.21      80.13      76.31      72.53
16.00   DISCHG        68.42      65.16      62.42      60.34      59.27      58.84      58.26      56.84      55.21      53.36
18.00   DISCHG        51.28      49.37      47.24      45.35      44.33      43.89      43.74      43.72      43.59      42.65
20.00   DISCHG        40.97      39.68      39.07      38.67      37.56      35.81      34.99      35.88      37.17      37.00
22.00   DISCHG        35.66      34.54      33.98      33.59      32.47      30.67      29.82      30.73      31.97      31.81
24.00   DISCHG        30.39      26.74      18.21       9.43       4.34       1.91        .81        .33        .12        .03
26.00   DISCHG          .00

   TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     1473.60        ACRE-FT=     121.78


SUBROUTINE SAVMOV    CROSS SECTION 511
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 2


SUBROUTINE DIVERT    CROSS SECTION 510
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPHS= 4,6


SUBROUTINE REACH     CROSS SECTION 610
           LENGTH=   3400.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=   1.22
 .00    DISCHG          .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=         .00        ACRE-FT=         .00


SUBROUTINE RUNOFF    CROSS SECTION 610
           AREA=    .46     INPUT RUNOFF CURVE=  62.0     TIME OF CONCENTRATION=   .81

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.47                         80.140                       (RUNOFF)
              21.76                          6.976                       (RUNOFF)
              23.73                          6.047                       (RUNOFF)

TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=    .46
 .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
10.00   DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .39       5.39
12.00   DISCHG        30.19      67.05      86.85      82.76      67.86      53.82      43.22      35.68      30.32      26.47
14.00   DISCHG        23.44      21.18      19.37      17.96      16.93      16.09      15.39      14.70      14.04      13.38
16.00   DISCHG        12.72      12.12      11.60      11.21      10.94      10.82      10.71      10.51      10.26       9.97
18.00   DISCHG         9.63       9.22       8.93       8.60       8.37       8.24       8.18       8.16       8.13       8.01
```

21

20.00	DISCHG	7.79	7.56	7.41	7.31	7.15	6.89	6.71	6.75	6.91	6.97
22.00	DISCHG	6.82	6.63	6.51	6.42	6.26	5.99	5.79	5.84	6.00	6.04
24.00	DISCHG	5.87	5.32	4.14	2.68	1.52	.82	.46	.25	.14	.07
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7100 CFS-HRS= 210.78 ACRE-FT= 17.42

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	88.140	(NULL)
21.76	6.976	(NULL)
23.73	6.047	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.39	5.39
12.00	DISCHG	30.19	67.05	86.85	82.76	67.86	53.82	43.22	35.68	30.32	26.47
14.00	DISCHG	23.44	21.18	19.37	17.96	16.93	16.09	15.39	14.70	14.04	13.38
16.00	DISCHG	12.72	12.12	11.60	11.21	10.94	10.82	10.71	10.51	10.26	9.97
18.00	DISCHG	9.63	9.29	8.93	8.60	8.37	8.24	8.18	8.16	8.13	8.01
20.00	DISCHG	7.79	7.56	7.41	7.31	7.15	6.89	6.71	6.75	6.91	6.97
22.00	DISCHG	6.82	6.63	6.51	6.42	6.26	5.99	5.79	5.84	6.00	6.04
24.00	DISCHG	5.87	5.32	4.14	2.68	1.52	.82	.46	.25	.14	.07
26.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1944 CFS-HRS= 210.78 ACRE-FT= 17.42

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.34	797.155	(NULL)
21.68	37.277	(NULL)
23.68	32.072	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.15	.82	2.34	4.68	8.03	12.62	18.85	28.40	55.47	190.59
12.00	DISCHG	512.36	763.77	790.52	677.91	487.56	317.11	236.95	189.54	159.23	139.04
14.00	DISCHG	123.05	112.20	103.92	97.49	92.49	87.95	84.21	80.13	76.31	72.53
16.00	DISCHG	68.42	65.16	62.42	60.34	59.27	58.84	58.26	56.84	55.21	53.36
18.00	DISCHG	51.28	49.37	47.24	45.35	44.33	43.89	43.74	43.72	43.59	42.65
20.00	DISCHG	40.97	39.68	39.07	38.67	37.56	35.81	34.99	35.88	37.17	37.00
22.00	DISCHG	35.66	34.54	33.99	33.59	32.47	30.67	29.82	30.73	31.97	31.81
24.00	DISCHG	30.39	26.74	18.21	9.43	4.34	1.91	.81	.33	.12	.03

```
 26.00    DISCHG          .00

    TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     1473.99        ACRE-FT=     121.81


SUBROUTINE SAVMOV    CROSS SECTION 611
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 2


SUBROUTINE DIVERT    CROSS SECTION 610
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPHS= 4,6


SUBROUTINE REACH     CROSS SECTION 710
           LENGTH=    700.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=   1.68
    .00    DISCHG          .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=         .00


SUBROUTINE ADDHYD    CROSS SECTION 711
           INPUT HYDROGRAPHS= 2,4     OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.36                        881.160                       (NULL)
              21.69                         44.224                       (NULL)
              23.68                         38.104                       (NULL)

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=    .00
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .01
  10.00    DISCHG          .15        .82       2.34       4.68       8.03      12.62      18.85      28.40      55.85     195.98
  12.00    DISCHG       542.55     830.82     877.36     760.67     555.42     370.93     280.17     225.21     189.55     165.50
  14.00    DISCHG       146.49     133.38     123.30     115.45     109.41     104.04      99.61      94.83      90.35      85.90
  16.00    DISCHG        81.13      77.28      74.02      71.54      70.21      69.65      68.97      67.36      65.47      63.33
  18.00    DISCHG        60.90      58.66      56.17      53.95      52.69      52.12      51.92      51.88      51.72      50.66
  20.00    DISCHG        48.75      47.24      46.48      45.98      44.71      42.70      41.70      42.62      44.08      43.97
  22.00    DISCHG        42.48      41.17      40.49      40.01      38.73      36.66      35.61      36.56      37.97      37.85
  24.00    DISCHG        36.27      32.07      22.36      12.11       5.86       2.73       1.27        .58        .26        .10
  26.00    DISCHG          .04        .02        .01        .00

    TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=     1684.78        ACRE-FT=     139.23


SUBROUTINE SAVMOV    CROSS SECTION 711
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 2


SUBROUTINE SAVMOV    CROSS SECTION 710
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 4
```

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	33.265	(RUNOFF)
16.91	1.492	(RUNOFF)
19.32	1.105	(RUNOFF)
20.30	.974	(RUNOFF)
21.48	.970	(RUNOFF)
22.30	.845	(RUNOFF)
23.47	.838	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.03	.09	.18	.29	.48	.64	1.03	1.49	4.24	20.27
12.00	DISCHG	33.21	23.45	11.27	8.51	5.51	4.73	4.02	3.52	3.34	2.85
14.00	DISCHG	2.72	2.52	2.37	2.32	2.15	2.11	1.98	1.88	1.83	1.65
16.00	DISCHG	1.61	1.54	1.49	1.48	1.48	1.48	1.42	1.37	1.34	1.26
18.00	DISCHG	1.23	1.16	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.00
20.00	DISCHG	.98	.97	.97	.95	.87	.84	.91	.96	.96	.87
22.00	DISCHG	.85	.84	.84	.82	.73	.71	.78	.83	.82	.74
24.00	DISCHG	.71	.36	.07	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5106 CFS-HRS= 39.00 ACRE-FT= 3.22

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	33.265	(NULL)
16.91	1.492	(NULL)
19.32	1.105	(NULL)
20.30	.974	(NULL)
21.48	.970	(NULL)
22.30	.845	(NULL)
23.47	.838	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.03	.09	.18	.29	.48	.64	1.03	1.49	4.24	20.27
12.00	DISCHG	33.21	23.45	11.27	8.51	5.51	4.73	4.02	3.52	3.34	2.85
14.00	DISCHG	2.72	2.52	2.37	2.32	2.15	2.11	1.98	1.88	1.83	1.65
16.00	DISCHG	1.61	1.54	1.49	1.48	1.48	1.48	1.42	1.37	1.34	1.26
18.00	DISCHG	1.23	1.16	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.00
20.00	DISCHG	.98	.97	.97	.95	.87	.84	.91	.96	.96	.87
22.00	DISCHG	.85	.84	.84	.82	.73	.71	.78	.83	.82	.74

24.00	DISCHG	.71	.36	.07	.01	.00

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.95	16.168	(NULL)
22.13	.924	(NULL)
24.13	.792	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.01	.03	.07	.14	.23	.36	.55
12.00	DISCHG	.97	2.77	7.13	12.42	15.65	16.11	14.75	12.57	10.33	8.36
14.00	DISCHG	6.78	5.58	4.66	3.98	3.48	3.10	2.82	2.60	2.43	2.28
16.00	DISCHG	2.16	2.04	1.93	1.83	1.74	1.67	1.60	1.56	1.53	1.50
18.00	DISCHG	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.16	1.14	1.12
20.00	DISCHG	1.11	1.10	1.08	1.05	1.03	1.01	.99	.96	.93	.92
22.00	DISCHG	.92	.92	.91	.90	.88	.87	.85	.82	.80	.79
24.00	DISCHG	.79	.79	.78	.74	.65	.51	.37	.26	.17	.11
26.00	DISCHG	.07	.04	.02	.01	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1077 CFS-HRS= 38.92 ACRE-FT= 3.22

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	130.887	(RUNOFF)
21.79	6.480	(RUNOFF)
23.76	5.552	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.11	.31	.67	1.22	1.98	3.05	4.56	9.47	26.57
12.00	DISCHG	62.76	106.44	129.74	123.02	101.53	78.44	61.18	48.82	39.71	33.20
14.00	DISCHG	28.31	24.81	22.13	20.06	18.41	17.09	16.10	15.26	14.48	13.75
16.00	DISCHG	13.02	12.36	11.77	11.28	10.93	10.70	10.53	10.33	10.08	9.78
18.00	DISCHG	9.45	9.12	8.77	8.43	8.16	7.97	7.86	7.80	7.75	7.64
20.00	DISCHG	7.46	7.25	7.08	6.95	6.80	6.58	6.40	6.35	6.42	6.48
22.00	DISCHG	6.41	6.25	6.11	6.01	5.88	5.66	5.48	5.43	5.50	5.55
24.00	DISCHG	5.44	5.05	4.22	3.07	2.00	1.21	.73	.43	.26	.16
26.00	DISCHG	.09	.05	.03	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5115 CFS-HRS= 273.13 ACRE-FT= 22.57

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	139.827	(NULL)
21.78	7.400	(NULL)
23.75	6.341	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .84

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.02	.11	.31	.68	1.25	2.06	3.19	4.79	9.83	27.12
12.00	DISCHG	63.73	109.21	136.87	135.44	117.18	94.55	75.93	61.39	50.04	41.56
14.00	DISCHG	35.10	30.38	26.79	24.04	21.89	20.19	18.92	17.86	16.91	16.03
16.00	DISCHG	15.18	14.40	13.70	13.11	12.68	12.37	12.13	11.89	11.60	11.27
18.00	DISCHG	10.91	10.54	10.14	9.76	9.44	9.21	9.05	8.96	8.89	8.77
20.00	DISCHG	8.58	8.35	8.15	8.00	7.83	7.59	7.38	7.30	7.35	7.40
22.00	DISCHG	7.33	7.18	7.03	6.91	6.76	6.53	6.33	6.25	6.30	6.34
24.00	DISCHG	6.23	5.84	5.00	3.82	2.65	1.72	1.10	.69	.43	.26
26.00	DISCHG	.16	.09	.05	.03	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5756 CFS-HRS= 312.05 ACRE-FT= 25.79

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 1,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.59	3219.692	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.49

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
8.00	DISCHG	.44	1.27	2.53	4.14	6.23	9.02	12.87	18.12	24.57	32.36
10.00	DISCHG	41.49	52.52	66.64	83.43	105.08	132.45	168.56	220.22	339.24	799.44
12.00	DISCHG	1760.14	2703.85	3128.58	3219.39	3111.60	2812.22	2396.99	1950.98	1556.67	1246.84
14.00	DISCHG	1015.78	850.42	731.00	644.42	579.88	529.96	490.87	458.27	431.40	407.66
16.00	DISCHG	385.31	365.36	347.21	331.57	319.07	309.55	301.74	294.09	286.90	279.34
18.00	DISCHG	270.99	262.25	252.60	243.30	235.30	228.80	223.82	220.25	217.58	214.27
20.00	DISCHG	209.70	205.12	201.01	197.12	192.29	186.35	181.75	180.08	179.84	178.83
22.00	DISCHG	176.47	174.02	171.78	169.26	165.30	159.84	155.52	154.01	153.83	152.81
24.00	DISCHG	150.37	142.73	124.56	101.60	78.89	58.04	40.09	25.95	15.94	9.49
26.00	DISCHG	5.55	3.22	1.84	1.04	.58	.29	.14	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7396 CFS-HRS= 8409.03 ACRE-FT= 694.92

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.94	3138.010	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.49

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.04	.26	.82	1.81	3.18	4.98	7.36	10.60	15.02	20.68
10.00	DISCHG	27.62	35.89	45.79	58.13	73.18	92.06	115.97	147.00	189.90	274.41
12.00	DISCHG	562.33	1238.51	2116.30	2772.91	3084.45	3128.86	2960.39	2634.45	2226.18	1816.77
14.00	DISCHG	1462.44	1182.08	972.49	819.64	708.72	627.35	566.10	518.91	481.11	450.16
16.00	DISCHG	423.87	400.20	378.76	359.37	342.20	327.80	316.36	307.24	299.17	291.66
18.00	DISCHG	284.19	276.24	267.79	258.65	249.32	240.68	233.30	227.36	222.87	219.53
20.00	DISCHG	216.36	212.43	208.02	203.73	199.68	195.26	189.96	184.89	181.69	180.37
22.00	DISCHG	179.45	177.76	175.53	173.24	170.84	167.60	163.05	158.42	155.48	154.29
24.00	DISCHG	153.42	151.69	146.73	134.30	115.12	93.27	71.74	52.23	35.86	23.29
26.00	DISCHG	14.47	8.72	5.15	3.00	1.72	.97	.53	.27	.10	.03
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7395 CFS-HRS= 8408.27 ACRE-FT= 694.86

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.94	3138.010	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.04	.26	.82	1.81	3.18	4.98	7.36	10.60	15.02	20.68
10.00	DISCHG	27.62	35.89	45.79	58.13	73.18	92.06	115.97	147.00	189.90	274.41
12.00	DISCHG	562.33	1238.51	2116.30	2772.91	3084.45	3128.86	2960.39	2634.45	2226.18	1816.77
14.00	DISCHG	1462.44	1182.08	972.49	819.64	708.72	627.35	566.10	518.91	481.11	450.16
16.00	DISCHG	423.87	400.20	378.76	359.37	342.20	327.80	316.36	307.24	299.17	291.66
18.00	DISCHG	284.19	276.24	267.79	258.65	249.32	240.68	233.30	227.36	222.87	219.53
20.00	DISCHG	216.36	212.43	208.02	203.73	199.68	195.26	189.96	184.89	181.69	180.37
22.00	DISCHG	179.45	177.76	175.53	173.24	170.84	167.60	163.05	158.42	155.48	154.29
24.00	DISCHG	153.42	151.69	146.73	134.30	115.12	93.27	71.74	52.23	35.86	23.29
26.00	DISCHG	14.47	8.72	5.15	3.00	1.72	.97	.53	.27	.10	.03
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4208 CFS-HRS= 8408.27 ACRE-FT= 694.86

ENDCMD

PASS= '2

EXECUTIVE CONTROL CARD 59 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 3.25 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 2

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.41	1588.553	(RUNOFF)
21.76	70.482	(RUNOFF)
23.75	60.404	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.02	.23	.96	2.61	5.18
10.00	DISCHG	8.54	12.76	18.21	24.96	33.55	45.15	60.49	81.85	146.92	380.43
12.00	DISCHG	855.83	1385.23	1587.56	1436.86	1136.00	857.83	663.21	519.34	421.64	353.59
14.00	DISCHG	302.71	264.91	237.13	215.22	197.92	184.92	174.95	165.78	157.46	149.41
16.00	DISCHG	141.46	134.16	127.86	122.73	118.99	116.67	114.89	112.62	109.73	106.36
18.00	DISCHG	102.71	99.01	95.09	91.38	88.42	86.52	85.50	84.92	84.41	83.15
20.00	DISCHG	80.98	78.58	76.73	75.42	73.78	71.29	69.26	68.94	70.00	70.46
22.00	DISCHG	69.46	67.72	66.24	65.13	63.58	61.13	59.11	58.80	59.88	60.35
24.00	DISCHG	58.95	54.40	44.49	31.30	19.44	11.16	6.67	3.92	2.25	1.31
26.00	DISCHG	.75	.40	.20	.09	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5066 CFS-HRS= 3160.06 ACRE-FT= 261.15

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	209.233	(RUNOFF)
16.91	10.419	(RUNOFF)
19.33	7.748	(RUNOFF)
20.30	6.842	(RUNOFF)
21.50	6.798	(RUNOFF)
23.50	5.905	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.02	.33	1.18	2.21	4.24	6.99	20.94	113.30

12.00	DISCHG	206.31	168.56	83.32	61.23	40.18	33.16	28.55	24.64	23.36	20.09
14.00	DISCHG	18.98	17.73	16.56	16.16	15.08	14.72	13.92	13.14	12.77	11.67
16.00	DISCHG	11.28	10.83	10.42	10.35	10.36	10.38	10.01	9.61	9.43	8.85
18.00	DISCHG	8.65	8.22	7.80	7.71	7.70	7.71	7.73	7.74	7.65	7.07
20.00	DISCHG	6.86	6.83	6.83	6.72	6.15	5.94	6.31	6.75	6.74	6.19
22.00	DISCHG	5.97	5.93	5.93	5.82	5.23	5.02	5.39	5.83	5.83	5.26
24.00	DISCHG	5.01	2.91	.65	.14	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1879 CFS-HRS= 260.65 ACRE-FT= 21.54

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	1575.947	(NULL)
21.79	76.247	(NULL)
23.76	65.211	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.01	.09	.45	1.44	3.30
10.00	DISCHG	6.04	9.60	14.15	20.22	28.30	38.73	53.30	73.01	122.26	331.68
12.00	DISCHG	722.59	1153.49	1480.18	1571.98	1387.08	1105.86	851.47	662.16	526.61	430.43
14.00	DISCHG	363.53	313.68	276.55	249.18	227.02	210.26	197.00	186.17	176.79	167.37
16.00	DISCHG	158.91	150.72	143.28	137.20	132.42	129.03	126.37	123.95	121.32	117.76
18.00	DISCHG	114.15	110.09	105.90	101.99	98.50	95.83	94.13	93.17	92.47	91.12
20.00	DISCHG	89.42	87.23	85.05	83.23	81.17	79.06	77.18	76.12	76.09	76.25
22.00	DISCHG	76.04	74.90	73.33	71.85	69.97	67.95	66.10	65.07	65.05	65.20
24.00	DISCHG	64.84	60.46	52.19	41.21	28.73	17.97	10.61	6.30	3.69	2.14
26.00	DISCHG	1.24	.70	.38	.19	.08	.03	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4762 CFS-HRS= 3420.20 ACRE-FT= 282.65

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	495.095	(RUNOFF)
16.91	21.263	(RUNOFF)
19.32	15.712	(RUNOFF)
20.30	13.839	(RUNOFF)
21.48	13.768	(RUNOFF)
23.47	11.881	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.10	.61	1.41
10.00	DISCHG	2.24	3.55	5.05	6.69	9.92	12.36	18.79	25.90	69.55	313.64
12.00	DISCHG	494.74	344.01	163.95	123.14	79.55	68.13	57.86	50.51	47.89	40.93
14.00	DISCHG	39.05	36.16	33.94	33.14	30.77	30.16	28.31	26.81	26.10	23.63
16.00	DISCHG	22.99	21.99	21.22	21.11	21.13	21.16	20.26	19.50	19.11	17.88
18.00	DISCHG	17.55	16.55	15.76	15.63	15.63	15.65	15.67	15.69	15.43	14.20
20.00	DISCHG	13.86	13.81	13.81	13.56	13.30	11.96	12.87	13.69	13.61	12.35
22.00	DISCHG	12.01	11.96	11.96	11.69	10.41	10.07	10.99	11.82	11.69	10.46
24.00	DISCHG	10.11	5.08	.94	.16	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4396 CFS-HRS= 576.01 ACRE-FT= 47.60

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.62	1645.483	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.05	.39	1.60	3.85
10.00	DISCHG	6.99	11.47	17.06	24.06	34.43	46.17	65.25	89.65	169.17	550.16
12.00	DISCHG	1036.24	1292.88	1484.58	1643.59	1545.96	1304.97	1031.71	805.37	641.21	518.76
14.00	DISCHG	435.61	374.30	328.70	295.76	268.58	248.62	231.77	218.24	207.43	195.51
16.00	DISCHG	185.98	176.64	168.09	161.27	155.88	151.86	147.93	144.62	141.68	137.32
18.00	DISCHG	133.43	128.57	123.66	119.50	115.81	112.78	110.64	109.34	108.24	105.94
20.00	DISCHG	104.07	102.07	99.90	97.67	94.45	92.03	90.96	90.35	89.75	88.53
22.00	DISCHG	88.14	87.37	86.02	84.25	81.27	78.98	77.98	77.40	76.79	75.60
24.00	DISCHG	75.10	67.51	56.95	46.53	34.67	23.17	14.25	8.47	5.00	2.92
26.00	DISCHG	1.69	.97	.54	.29	.14	.05	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4706 CFS-HRS= 3995.59 ACRE-FT= 330.20

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	515.236	(RUNOFF)
19.32	17.896	(RUNOFF)
21.56	15.454	(RUNOFF)
23.56	13.290	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .66

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.03	.25	.74	1.35	2.06	2.93	3.80	4.87
10.00	DISCHG	5.98	7.46	9.56	11.62	15.17	18.83	24.58	33.86	64.14	249.08
12.00	DISCHG	479.78	496.44	301.45	193.19	131.75	95.60	78.28	64.92	58.80	52.02
14.00	DISCHG	47.15	44.17	40.86	39.14	37.01	35.40	33.95	31.88	30.67	28.67
16.00	DISCHG	27.07	26.05	24.92	24.41	24.27	24.24	23.78	22.82	22.24	21.21
18.00	DISCHG	20.39	19.63	18.56	18.07	17.91	17.87	17.87	17.89	17.77	16.89
20.00	DISCHG	16.12	15.85	15.77	15.62	14.72	13.95	14.17	15.09	15.44	14.69
22.00	DISCHG	13.96	13.71	13.63	13.47	12.57	11.78	12.00	12.93	13.27	12.53
24.00	DISCHG	11.74	8.97	3.81	1.26	.42	.13	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.6527 CFS-HRS= 703.96 ACRE-FT= 58.17

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.71	1743.214	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.03	.25	.74	1.35	2.08	3.10	4.61	7.21
10.00	DISCHG	10.81	15.86	22.74	30.81	42.50	56.77	76.87	106.63	181.46	554.45
12.00	DISCHG	1181.34	1586.91	1640.79	1719.15	1724.05	1557.10	1300.50	1035.71	823.40	662.81
14.00	DISCHG	546.29	464.77	403.88	359.80	325.70	299.03	278.14	260.14	246.12	232.64
16.00	DISCHG	220.06	209.41	199.19	190.72	184.15	179.11	174.54	169.86	166.06	161.52
18.00	DISCHG	156.62	151.59	145.72	140.61	136.41	132.89	130.13	128.24	126.83	124.38
20.00	DISCHG	121.56	119.35	117.20	114.88	111.38	107.77	106.02	105.93	105.62	104.04
22.00	DISCHG	102.45	101.61	100.56	98.94	95.85	92.44	90.82	90.81	90.50	88.92
24.00	DISCHG	87.25	81.27	67.96	55.21	43.44	31.54	20.90	12.91	7.73	4.56
26.00	DISCHG	2.66	1.54	.88	.49	.26	.12	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4948 CFS-HRS= 4698.03 ACRE-FT= 388.24

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 2200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.77	1719.768	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.01	.14	.49	1.03	1.69	2.57	3.82	5.86
10.00	DISCHG	8.93	13.22	19.13	24.54	36.38	49.23	66.34	91.09	143.26	367.22

12.00	DISCHG	856.76	1360.53	1595.95	1676.85	1718.22	1639.06	1433.79	1177.17	939.61	751.45
14.00	DISCHG	610.96	510.23	437.60	384.28	344.51	313.71	289.63	269.95	253.83	239.91
16.00	DISCHG	226.86	215.22	204.70	195.35	187.77	181.89	177.02	172.37	168.14	163.93
18.00	DISCHG	159.24	154.29	148.84	143.38	138.71	134.81	131.65	129.30	127.61	125.65
20.00	DISCHG	123.05	120.56	118.36	116.12	113.21	109.70	107.04	106.06	105.78	104.83
22.00	DISCHG	103.30	102.09	101.12	99.79	97.45	94.25	91.77	90.89	90.66	89.72
24.00	DISCHG	88.14	84.30	74.78	62.05	49.80	37.93	26.67	17.32	10.64	6.36
26.00	DISCHG	3.75	2.18	1.26	.71	.39	.20	.09	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4942 CFS-HRS= 4696.18 ACRE-FT= 388.09

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	735.090	(RUNOFF)
21.63	24.857	(RUNOFF)
23.63	21.320	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.07	.43	1.17	2.24	3.49	4.95
10.00	DISCHG	6.60	8.60	11.31	14.43	18.78	24.19	31.57	43.21	79.29	261.57
12.00	DISCHG	573.88	734.97	589.56	395.42	275.74	196.85	152.07	123.30	104.88	91.77
14.00	DISCHG	81.69	75.19	69.57	65.55	62.18	59.11	56.63	53.59	51.10	48.35
16.00	DISCHG	45.48	43.48	41.60	40.32	39.78	39.59	39.12	37.86	36.74	35.40
18.00	DISCHG	33.95	32.73	31.15	29.97	29.45	29.25	29.17	29.16	29.05	28.16
20.00	DISCHG	26.91	26.18	25.88	25.63	24.67	23.41	23.11	24.04	24.85	24.39
22.00	DISCHG	23.33	22.67	22.39	22.13	21.18	19.91	19.62	20.53	21.31	20.85
24.00	DISCHG	19.67	16.61	10.15	4.66	2.04	.88	.37	.15	.05	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5765 CFS-HRS= 1119.20 ACRE-FT= 92.49

SUBROUTINE REACH CROSS SECTION 105
LENGTH= 4200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .86

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.96	691.999	(RUNOFF)
16.90	25.181	(RUNOFF)
19.31	18.514	(RUNOFF)
20.30	16.285	(RUNOFF)
21.40	16.226	(RUNOFF)
22.30	14.080	(RUNOFF)
23.40	13.997	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.12	.65	1.34	2.01	2.97	3.86	4.84	6.16
10.00	DISCHG	7.16	9.85	11.77	14.53	19.69	22.35	35.15	42.91	151.17	515.15
12.00	DISCHG	681.11	296.29	162.17	131.69	84.39	79.55	63.73	59.00	55.29	46.97
14.00	DISCHG	46.15	41.41	39.94	38.73	35.93	35.67	32.48	31.47	30.24	27.35
16.00	DISCHG	27.06	25.44	24.93	24.92	24.96	24.99	23.36	22.85	22.21	20.75
18.00	DISCHG	20.61	18.92	18.40	18.37	18.39	18.41	18.43	18.45	17.84	16.36
20.00	DISCHG	16.20	16.20	16.21	15.61	14.10	13.96	15.65	16.23	15.67	14.16
22.00	DISCHG	14.00	14.00	14.01	13.39	11.87	11.72	13.42	14.00	13.43	11.91
24.00	DISCHG	11.75	3.04	.27	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.6276 CFS-HRS= 714.27 ACRE-FT= 59.03

SUBROUTINE ADDHYD CROSS SECTION 105
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	953.803	(NULL)
12.32	845.814	(NULL)
21.52	39.734	(NULL)
23.51	33.984	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.78

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.12	.65	1.35	2.11	3.42	5.00	6.98	9.52
10.00	DISCHG	11.96	16.29	20.21	25.58	33.88	40.75	58.92	74.11	195.83	607.37
12.00	DISCHG	941.23	820.86	835.77	717.60	507.31	378.04	277.38	221.06	184.85	155.69
14.00	DISCHG	140.43	125.07	116.33	109.31	102.18	98.38	92.09	88.40	84.27	78.77
16.00	DISCHG	75.75	71.38	68.73	66.85	65.56	64.93	62.97	61.93	60.21	57.61
18.00	DISCHG	56.16	53.08	51.26	49.75	48.60	48.00	47.74	47.65	47.00	45.33
20.00	DISCHG	44.39	43.30	42.56	41.56	39.69	38.69	39.31	39.56	39.65	38.77
22.00	DISCHG	38.32	37.46	36.81	35.84	33.96	32.95	33.59	33.83	33.89	32.99
24.00	DISCHG	32.52	22.60	16.79	10.91	5.71	2.69	1.21	.53	.22	.08
26.00	DISCHG	.02	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5951 CFS-HRS= 1832.38 ACRE-FT= 151.43

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.27	877.982	(NULL)
21.60	39.562	(NULL)
23.59	33.824	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.78

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.04	.29	.83	1.53	2.46	3.81	5.49	7.62
10.00	DISCHG	10.07	13.14	17.16	21.57	27.79	35.32	46.05	62.19	113.01	321.44
12.00	DISCHG	678.78	864.53	831.92	795.85	658.42	485.29	359.45	270.05	215.82	179.45
14.00	DISCHG	153.92	137.19	123.85	115.04	107.73	101.69	96.74	91.51	87.46	82.88
16.00	DISCHG	78.34	74.66	70.95	68.41	66.64	65.50	64.35	62.81	61.48	59.52
18.00	DISCHG	57.39	55.31	52.78	50.97	49.54	48.53	47.99	47.74	47.45	46.51
20.00	DISCHG	45.18	44.14	43.17	42.31	41.04	39.55	39.01	39.35	39.56	39.35
22.00	DISCHG	38.70	38.09	37.33	36.56	35.31	33.81	33.28	33.63	33.82	33.58
24.00	DISCHG	32.91	29.27	21.59	15.50	9.82	5.28	2.56	1.17	.52	.22
26.00	DISCHG	.08	.02	.00							

HYDROGRAPH 3 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE ADDHYD CROSS SECTION 205
INPUT HYDROGRAPHS= 5,1 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.56	2475.120	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 6.65

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.05	.43	1.32	2.56	4.15	6.38	9.32	13.49
10.00	DISCHG	19.00	26.35	36.29	48.11	64.17	84.55	112.39	153.28	256.27	688.66
12.00	DISCHG	1535.54	2225.06	2427.87	2472.70	2376.65	2124.35	1793.23	1447.23	1155.44	930.90
14.00	DISCHG	764.87	647.42	561.45	499.31	452.24	415.40	386.38	361.46	341.29	322.80
16.00	DISCHG	305.19	289.87	275.66	263.76	254.41	247.39	241.38	235.19	229.62	223.45
18.00	DISCHG	216.63	209.59	201.62	194.36	188.25	183.34	179.64	177.04	175.06	172.16
20.00	DISCHG	168.23	164.70	161.53	158.43	154.25	149.25	146.06	145.41	145.35	144.18
22.00	DISCHG	142.00	140.18	138.45	136.35	132.76	128.07	125.05	124.52	124.48	123.30
24.00	DISCHG	121.05	113.56	96.37	77.56	59.62	43.20	29.23	18.49	11.16	6.58
26.00	DISCHG	3.83	2.21	1.26	.71	.39	.20	.09	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5227 CFS-HRS= 6535.13 ACRE-FT= 540.06

HYDROGRAPH 4 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 3200.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.62	2461.604	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 6.65

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

8.00	DISCHG	.00	.00	.04	.33	1.09	2.23	3.73	5.79	8.54	12.39
10.00	DISCHG	17.55	24.42	33.68	45.01	59.95	79.20	105.08	142.54	229.23	575.17
12.00	DISCHG	1313.17	2043.84	2374.42	2460.87	2401.84	2190.59	1880.20	1538.13	1232.12	989.92
14.00	DISCHG	808.52	678.30	584.05	515.65	464.61	425.08	394.00	368.01	346.59	327.66
16.00	DISCHG	309.82	293.90	279.39	266.89	256.86	249.24	242.96	236.81	231.08	225.07
18.00	DISCHG	218.42	211.44	203.71	196.26	189.85	184.63	180.61	177.72	175.58	172.92
20.00	DISCHG	169.26	165.63	162.36	159.25	155.35	150.56	146.89	145.58	145.36	144.48
22.00	DISCHG	142.57	140.66	138.91	136.90	133.70	129.30	125.84	124.66	124.49	123.61
24.00	DISCHG	121.64	115.53	100.89	82.50	64.33	47.52	32.90	21.31	13.09	7.78
26.00	DISCHG	4.55	2.63	1.51	.86	.47	.25	.12	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5226 CFS-HRS= 6534.53 ACRE-FT= 540.01

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.15	281.279	(RUNOFF)
19.34	11.831	(RUNOFF)
21.57	10.283	(RUNOFF)
23.57	8.880	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.01	.28	1.18	2.60	4.87	8.56	21.26	106.78
12.00	DISCHG	241.07	277.75	179.39	118.47	82.00	60.22	49.67	41.39	37.47	33.30
14.00	DISCHG	30.21	28.37	26.32	25.24	23.90	22.89	22.00	20.72	19.95	18.68
16.00	DISCHG	17.64	17.00	16.29	15.96	15.88	15.87	15.59	14.99	14.62	13.97
18.00	DISCHG	13.43	12.95	12.26	11.93	11.83	11.80	11.81	11.83	11.77	11.21
20.00	DISCHG	10.70	10.52	10.47	10.38	9.80	9.29	9.42	10.02	10.27	9.81
22.00	DISCHG	9.32	9.15	9.10	9.00	8.42	7.89	8.02	8.62	8.87	8.40
24.00	DISCHG	7.88	6.08	2.66	.90	.31	.10	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1885 CFS-HRS= 398.87 ACRE-FT= 32.96

SUBROUTINE DIVERT CROSS SECTION 8
INPUT HYDROGRAPH= 6 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.39	243.636	(NULL)
21.79	10.108	(NULL)
23.79	8.706	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.29	1.04	2.33	4.44	8.52	25.65
12.00	DISCHG	94.64	199.02	243.59	193.44	138.27	97.40	70.78	55.44	45.38	39.53
14.00	DISCHG	34.94	31.51	29.14	27.09	25.68	24.36	23.26	22.27	21.13	20.19
16.00	DISCHG	19.05	18.02	17.25	16.56	16.14	15.96	15.87	15.62	15.15	14.72
18.00	DISCHG	14.15	13.61	13.09	12.49	12.09	11.91	11.84	11.82	11.82	11.73
20.00	DISCHG	11.32	10.87	10.62	10.51	10.36	9.93	9.50	9.50	9.88	10.11
22.00	DISCHG	9.85	9.47	9.25	9.13	8.99	8.54	8.10	8.10	8.49	8.71
24.00	DISCHG	8.45	7.88	6.31	3.63	1.69	.72	.29	.11	.04	.00

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 397.28 ACRE-FT= 32.83

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	370.769	(RUNOFF)
21.65	15.357	(RUNOFF)
23.65	13.204	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.02	.23	1.05	2.69	5.35	9.66	24.28	96.27
12.00	DISCHG	247.84	366.42	322.87	231.43	166.32	121.81	93.93	76.44	65.01	56.78
14.00	DISCHG	50.14	45.82	42.48	39.92	37.87	36.04	34.52	32.80	31.24	29.65
16.00	DISCHG	27.98	26.69	25.57	24.76	24.37	24.20	23.93	23.30	22.63	21.85
18.00	DISCHG	20.99	20.21	19.33	18.58	18.20	18.04	17.99	17.98	17.90	17.46
20.00	DISCHG	16.75	16.26	16.04	15.88	15.37	14.64	14.37	14.82	15.34	15.16
22.00	DISCHG	14.57	14.14	13.94	13.78	13.27	12.51	12.23	12.70	13.18	13.03
24.00	DISCHG	12.38	10.74	7.00	3.52	1.65	.77	.35	.16	.06	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1880 CFS-HRS= 605.68 ACRE-FT= 50.05

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.30	583.796	(NULL)
21.71	25.356	(NULL)
23.71	21.824	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

10.00	DISCHG	.00	.00	.02	.24	1.35	3.74	7.68	14.10	32.79	121.92
12.00	DISCHG	342.48	565.44	566.46	424.87	304.59	219.22	164.71	131.88	110.40	96.30
14.00	DISCHG	85.08	77.33	71.63	67.01	63.56	60.40	57.78	55.06	52.36	49.85
16.00	DISCHG	47.07	44.71	42.82	41.31	40.50	40.16	39.80	38.92	37.78	36.57
18.00	DISCHG	35.14	33.82	32.41	31.07	30.29	29.95	29.82	29.80	29.72	29.18
20.00	DISCHG	28.07	27.13	26.67	26.39	25.73	24.57	23.87	24.32	25.22	25.27
22.00	DISCHG	24.42	23.61	23.19	22.91	22.25	21.05	20.33	20.80	21.67	21.73
24.00	DISCHG	20.83	18.63	13.31	7.14	3.34	1.49	.64	.26	.10	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9672 CFS-HRS= 1002.96 ACRE-FT= 82.88

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	164.468	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	112.86	162.83	69.63	10.71	.67	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1412 CFS-HRS= 71.99 ACRE-FT= 5.95

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	71.894	(RUNOFF)
16.92	7.616	(RUNOFF)
19.40	5.841	(RUNOFF)
21.60	5.155	(RUNOFF)

23.59 4.503 (RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.03	4.67
12.00	DISCHG	35.96	70.43	59.11	43.79	33.63	25.80	21.76	18.55	16.64	15.04
14.00	DISCHG	13.71	12.90	12.06	11.57	11.06	10.62	10.27	9.74	9.39	8.88
16.00	DISCHG	8.40	8.11	7.80	7.63	7.60	7.61	7.52	7.28	7.10	6.84
18.00	DISCHG	6.58	6.37	6.05	5.87	5.82	5.81	5.82	5.84	5.82	5.61
20.00	DISCHG	5.36	5.26	5.23	5.19	4.96	4.69	4.72	4.99	5.15	4.98
22.00	DISCHG	4.75	4.65	4.62	4.57	4.33	4.06	4.08	4.35	4.50	4.33
24.00	DISCHG	4.08	3.31	1.67	.63	.24	.09	.03	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5026 CFS-HRS= 139.46 ACRE-FT= 11.53

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	71.894	(NULL)
16.92	7.616	(NULL)
19.40	5.841	(NULL)
21.60	5.155	(NULL)
23.59	4.503	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.03	4.67
12.00	DISCHG	35.96	70.43	59.11	43.79	33.63	25.80	21.76	18.55	16.64	15.04
14.00	DISCHG	13.71	12.90	12.06	11.57	11.06	10.62	10.27	9.74	9.39	8.88
16.00	DISCHG	8.40	8.11	7.80	7.63	7.60	7.61	7.52	7.28	7.10	6.84
18.00	DISCHG	6.58	6.37	6.05	5.87	5.82	5.81	5.82	5.84	5.82	5.61
20.00	DISCHG	5.36	5.26	5.23	5.19	4.96	4.69	4.72	4.99	5.15	4.98
22.00	DISCHG	4.75	4.65	4.62	4.57	4.33	4.06	4.08	4.35	4.50	4.33
24.00	DISCHG	4.08	3.31	1.67	.63	.24	.09	.03	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1771 CFS-HRS= 139.46 ACRE-FT= 11.53

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	564.482	(NULL)
21.71	25.356	(NULL)
23.71	21.824	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.02	.26	1.35	3.74	7.68	14.10	32.79	121.92
12.00	DISCHG	342.48	512.86	562.83	469.63	315.30	219.89	164.75	131.88	110.40	96.30
14.00	DISCHG	85.08	77.33	71.63	67.01	63.56	60.40	57.78	55.06	52.36	49.85
16.00	DISCHG	47.03	44.71	42.82	41.31	40.50	40.16	39.80	38.92	37.78	36.57
18.00	DISCHG	35.14	33.82	32.41	31.07	30.29	29.95	29.82	29.80	29.72	29.18
20.00	DISCHG	28.07	27.13	26.67	26.39	25.73	24.57	23.87	24.32	25.22	25.27
22.00	DISCHG	24.42	23.61	23.19	22.91	22.25	21.05	20.33	20.80	21.67	21.73
24.00	DISCHG	20.83	18.63	13.31	7.14	3.34	1.49	.64	.26	.10	.02
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1002.01 ACRE-FT= 82.81

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	626.114	(NULL)
21.68	30.468	(NULL)
23.68	26.264	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.02	.26	1.35	3.74	7.68	14.10	32.83	126.59
12.00	DISCHG	378.44	583.29	621.95	513.42	348.93	245.69	186.52	150.43	127.04	111.35
14.00	DISCHG	98.78	90.22	83.69	78.58	74.62	71.02	68.05	64.80	61.75	58.73
16.00	DISCHG	55.43	52.82	50.62	49.95	48.10	47.77	47.32	46.20	44.88	43.40
18.00	DISCHG	41.72	40.19	38.47	36.94	36.11	35.76	35.65	35.64	35.55	34.79
20.00	DISCHG	33.43	32.39	31.90	31.58	30.68	29.26	28.59	29.31	30.37	30.25

22.00	DISCHG	29.17	28.25	27.80	27.48	26.58	25.11	24.41	25.15	26.17	26.06
24.00	DISCHG	24.91	21.94	14.98	7.77	3.58	1.58	.67	.27	.10	.02
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1141.47 ACRE-FT= 94.33

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.50	56.263	(RUNOFF)
21.76	5.383	(RUNOFF)
23.74	4.684	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.89
12.00	DISCHG	15.53	39.19	54.39	54.31	46.00	37.29	30.52	25.55	21.98	19.35
14.00	DISCHG	17.26	15.69	14.42	13.42	12.68	12.08	11.58	11.07	10.59	10.11
16.00	DISCHG	9.62	9.18	8.80	8.51	8.31	8.22	8.15	8.01	7.83	7.61
18.00	DISCHG	7.35	7.10	6.83	6.58	6.41	6.31	6.27	6.26	6.24	6.15
20.00	DISCHG	5.98	5.81	5.70	5.62	5.50	5.31	5.17	5.20	5.33	5.38
22.00	DISCHG	5.27	5.12	5.03	4.96	4.84	4.63	4.48	4.52	4.65	4.68
24.00	DISCHG	4.55	4.13	3.21	2.08	1.18	.64	.36	.19	.11	.06
26.00	DISCHG	.03	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5015 CFS-HRS= 148.89 ACRE-FT= 12.30

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

12.50	56.263	(NULL)
21.76	5.383	(NULL)
23.74	4.684	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.05	1.89
12.00	DISCHG	15.53	39.19	54.39	54.31	46.00	37.29	30.52	25.55	21.98	19.35
14.00	DISCHG	17.26	15.69	14.42	13.42	12.68	12.08	11.58	11.07	10.59	10.11
16.00	DISCHG	9.62	9.18	8.80	8.51	8.31	8.22	8.15	8.01	7.83	7.61
18.00	DISCHG	7.35	7.10	6.83	6.58	6.41	6.31	6.27	6.26	6.24	6.15
20.00	DISCHG	5.98	5.81	5.70	5.62	5.50	5.31	5.17	5.20	5.33	5.38
22.00	DISCHG	5.27	5.12	5.03	4.96	4.84	4.63	4.48	4.52	4.65	4.68
24.00	DISCHG	4.55	4.13	3.21	2.08	1.18	.64	.36	.19	.11	.06
26.00	DISCHG	.03	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1373 CFS-HRS= 148.89 ACRE-FT= 12.30

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	626.114	(NULL)
21.68	30.468	(NULL)
23.68	26.264	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.02	.26	1.35	3.74	7.68	14.10	32.83	126.59
12.00	DISCHG	378.44	583.29	621.95	513.42	348.93	245.69	186.52	150.43	127.04	111.35
14.00	DISCHG	98.78	90.22	83.69	78.58	74.62	71.02	68.05	64.80	61.75	58.73
16.00	DISCHG	55.43	52.82	50.62	48.95	48.10	47.77	47.32	46.20	44.88	43.40
18.00	DISCHG	41.72	40.19	38.47	36.94	36.11	35.76	35.65	35.64	35.55	34.79
20.00	DISCHG	33.43	32.39	31.90	31.58	30.68	29.26	28.59	29.31	30.37	30.25
22.00	DISCHG	29.17	28.25	27.80	27.48	26.58	25.11	24.41	25.15	26.17	26.06
24.00	DISCHG	24.91	21.94	14.98	7.77	3.58	1.58	.67	.27	.10	.02
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1141.47 ACRE-FT= 94.33

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 710
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68
.00 DISCHG .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 711
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	678.665	(NULL)
21.69	35.829	(NULL)
23.69	30.936	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.02	.26	1.35	3.74	7.68	14.10	32.87	128.48
12.00	DISCHG	393.97	622.48	676.34	567.73	394.93	282.99	217.03	175.98	149.01	130.70
14.00	DISCHG	116.05	105.91	98.11	92.00	87.30	83.10	79.63	75.88	72.34	68.83
16.00	DISCHG	65.05	62.00	59.42	57.46	56.41	55.99	55.47	54.21	52.71	51.01
18.00	DISCHG	49.07	47.29	45.30	43.52	42.51	42.07	41.92	41.90	41.79	40.95
20.00	DISCHG	39.42	38.20	37.59	37.20	36.19	34.57	33.76	34.51	35.71	35.63
22.00	DISCHG	34.44	33.38	32.83	32.45	31.42	29.75	28.90	29.67	30.82	30.74
24.00	DISCHG	29.46	26.07	18.19	9.85	4.76	2.22	1.03	.47	.21	.08
26.00	DISCHG	.03	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 1290.36 ACRE-FT= 106.64

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	25.735	(RUNOFF)
16.91	1.227	(RUNOFF)
19.32	.912	(RUNOFF)
20.31	.805	(RUNOFF)
21.49	.804	(RUNOFF)
22.30	.700	(RUNOFF)

23.47 .694 (RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.15	.27	.53	.86	2.78	14.75
12.00	DISCHG	25.64	18.52	9.00	6.86	4.46	3.84	3.27	2.86	2.72	2.33
14.00	DISCHG	2.22	2.06	1.94	1.89	1.76	1.73	1.62	1.54	1.50	1.36
16.00	DISCHG	1.32	1.27	1.22	1.22	1.22	1.22	1.17	1.13	1.10	1.03
18.00	DISCHG	1.02	.96	.91	.91	.91	.91	.91	.91	.90	.83
20.00	DISCHG	.81	.80	.80	.79	.72	.70	.75	.80	.79	.72
22.00	DISCHG	.70	.70	.70	.68	.61	.59	.64	.69	.68	.61
24.00	DISCHG	.59	.30	.05	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1851 CFS-HRS= 30.59 ACRE-FT= 2.53

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	25.735	(NULL)
16.91	1.227	(NULL)
19.32	.912	(NULL)
20.31	.805	(NULL)
21.49	.804	(NULL)
22.30	.700	(NULL)
23.47	.694	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.15	.27	.53	.86	2.78	14.75
12.00	DISCHG	25.64	18.52	9.00	6.86	4.46	3.84	3.27	2.86	2.72	2.33
14.00	DISCHG	2.22	2.06	1.94	1.89	1.76	1.73	1.62	1.54	1.50	1.36
16.00	DISCHG	1.32	1.27	1.22	1.22	1.22	1.22	1.17	1.13	1.10	1.03
18.00	DISCHG	1.02	.96	.91	.91	.91	.91	.91	.91	.90	.83
20.00	DISCHG	.81	.80	.80	.79	.72	.70	.75	.80	.79	.72
22.00	DISCHG	.70	.70	.70	.68	.61	.59	.64	.69	.68	.61
24.00	DISCHG	.59	.30	.05	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.97	12.406	(NULL)
22.13	.764	(NULL)
24.13	.656	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.02	.05	.12	.24
12.00	DISCHG	.52	1.82	5.12	9.26	11.90	12.39	11.44	9.83	8.13	6.62
14.00	DISCHG	5.40	4.46	3.75	3.22	2.82	2.52	2.30	2.12	1.98	1.87
16.00	DISCHG	1.77	1.67	1.58	1.50	1.43	1.37	1.32	1.28	1.26	1.23
18.00	DISCHG	1.20	1.17	1.13	1.10	1.06	1.02	.98	.96	.94	.93
20.00	DISCHG	.92	.91	.89	.87	.85	.83	.81	.79	.77	.76
22.00	DISCHG	.76	.76	.76	.74	.73	.72	.70	.68	.66	.65
24.00	DISCHG	.65	.66	.65	.62	.54	.42	.31	.21	.14	.09
26.00	DISCHG	.05	.03	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0845 CFS-HRS= 30.55 ACRE-FT= 2.52

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	100.488	(RUNOFF)
21.79	5.360	(RUNOFF)
23.76	4.600	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.19	.52	1.11	2.07	5.48	18.02
12.00	DISCHG	45.52	79.83	99.21	95.27	79.40	61.80	48.51	38.93	31.82	26.72
14.00	DISCHG	22.88	20.10	17.98	16.33	15.02	13.96	13.17	12.49	11.86	11.27
16.00	DISCHG	10.67	10.14	9.66	9.26	8.98	8.80	8.66	8.49	8.29	8.05
18.00	DISCHG	7.78	7.51	7.22	6.95	6.73	6.57	6.48	6.43	6.39	6.31
20.00	DISCHG	6.16	5.99	5.84	5.74	5.62	5.44	5.29	5.25	5.31	5.36
22.00	DISCHG	5.30	5.17	5.06	4.97	4.87	4.69	4.54	4.50	4.56	4.60
24.00	DISCHG	4.51	4.18	3.50	2.55	1.66	1.01	.60	.36	.22	.13
26.00	DISCHG	.08	.04	.02	.01	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1863 CFS-HRS= 214.37 ACRE-FT= 17.72

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.50	106.117	(NULL)
21.78	6.120	(NULL)
23.75	5.253	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .84

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.04	.19	.52	1.13	2.12	5.60	18.26
12.00	DISCHG	46.04	81.65	104.33	104.53	91.29	74.19	59.96	48.75	39.95	33.34
14.00	DISCHG	28.28	24.57	21.73	19.55	17.84	16.48	15.46	14.61	13.84	13.13
16.00	DISCHG	12.44	11.81	11.24	10.76	10.41	10.16	9.97	9.78	9.55	9.28
18.00	DISCHG	8.98	8.68	8.36	8.04	7.78	7.59	7.47	7.39	7.33	7.24
20.00	DISCHG	7.08	6.89	6.73	6.61	6.47	6.27	6.10	6.04	6.08	6.12
22.00	DISCHG	6.06	5.94	5.82	5.72	5.60	5.41	5.24	5.18	5.22	5.25
24.00	DISCHG	5.16	4.84	4.14	3.16	2.19	1.43	.91	.57	.36	.22
26.00	DISCHG	.13	.08	.04	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4518 CFS-HRS= 244.93 ACRE-FT= 20.24

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 1,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	2565.657	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.49

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.04	.33	1.09	2.23	3.73	5.79	8.54	12.39
10.00	DISCHG	17.55	24.42	33.68	45.04	60.14	79.72	106.21	144.66	234.84	593.42
12.00	DISCHG	1359.21	2125.49	2478.74	2565.40	2493.13	2264.77	1940.16	1586.89	1272.07	1023.27
14.00	DISCHG	836.80	702.86	605.77	535.20	482.45	441.56	409.47	382.62	360.43	340.79
16.00	DISCHG	322.26	305.71	290.63	277.65	267.28	259.40	252.93	246.59	240.63	234.35
18.00	DISCHG	227.41	220.12	212.07	204.31	197.63	192.22	188.08	185.12	182.91	180.15
20.00	DISCHG	176.34	172.52	169.10	165.85	161.81	156.84	153.00	151.62	151.44	150.60
22.00	DISCHG	148.63	146.59	144.72	142.62	139.30	134.71	131.09	129.84	129.71	128.86
24.00	DISCHG	126.81	120.37	105.03	85.66	66.53	48.95	33.81	21.89	13.44	8.00
26.00	DISCHG	4.68	2.71	1.55	.88	.48	.25	.12	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4025 CFS-HRS= 6779.46 ACRE-FT= 560.25

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.96	2501.979	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.49

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.02	.19	.69	1.58	2.85	4.58	6.91
10.00	DISCHG	10.13	14.49	20.34	28.19	38.18	51.13	68.01	90.49	122.18	185.84
12.00	DISCHG	409.07	944.62	1650.73	2186.52	2448.74	2497.99	2375.66	2124.53	1803.92	1479.04
14.00	DISCHG	1195.92	970.66	801.52	677.69	587.52	521.19	471.13	432.46	401.40	375.90
16.00	DISCHG	354.19	334.59	316.82	300.72	286.47	274.52	265.04	257.48	250.80	244.57
18.00	DISCHG	238.37	231.77	224.74	217.12	209.33	202.13	195.97	191.03	187.29	184.53
20.00	DISCHG	181.89	178.62	174.94	171.36	167.99	164.30	159.86	155.62	152.96	151.87
22.00	DISCHG	151.11	149.71	147.85	145.94	143.94	141.23	137.41	133.52	131.07	130.09
24.00	DISCHG	129.36	127.92	123.74	113.25	97.07	78.65	60.50	44.05	30.24	19.64
26.00	DISCHG	12.20	7.35	4.34	2.53	1.45	.82	.45	.23	.09	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4024 CFS-HRS= 6778.81 ACRE-FT= 560.20

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.96	2501.979	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.02	.19	.69	1.58	2.85	4.58	6.91
10.00	DISCHG	10.13	14.49	20.34	28.19	38.18	51.13	68.01	90.49	122.18	185.84
12.00	DISCHG	409.07	944.62	1650.73	2186.52	2448.74	2497.99	2375.66	2124.53	1803.92	1479.04
14.00	DISCHG	1195.92	970.66	801.52	677.69	587.52	521.19	471.13	432.46	401.40	375.90
16.00	DISCHG	354.19	334.59	316.82	300.72	286.47	274.52	265.04	257.48	250.80	244.57
18.00	DISCHG	238.37	231.77	224.74	217.12	209.33	202.13	195.97	191.03	187.29	184.53
20.00	DISCHG	181.89	178.62	174.94	171.36	167.99	164.30	159.86	155.62	152.96	151.87
22.00	DISCHG	151.11	149.71	147.85	145.94	143.94	141.23	137.41	133.52	131.07	130.09
24.00	DISCHG	129.36	127.92	123.74	113.25	97.07	78.65	60.50	44.05	30.24	19.64
26.00	DISCHG	12.20	7.35	4.34	2.53	1.45	.82	.45	.23	.09	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1454 CFS-HRS= 6778.81 ACRE-FT= 560.20

ENDCMP

PASS= 3

EXECUTIVE CONTROL CARD 61 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 2.80 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 3

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	1203.543	(RUNOFF)
21.76	57.343	(RUNOFF)
23.75	49.226	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
10.00	DISCHG	.45	1.63	4.09	7.83	13.10	20.64	30.95	45.57	91.34	261.56
12.00	DISCHG	619.13	1030.67	1201.30	1099.94	877.55	666.93	518.71	408.43	333.20	280.54
14.00	DISCHG	241.00	211.50	189.76	172.59	158.98	148.69	140.79	133.50	126.88	120.46
16.00	DISCHG	114.11	108.28	103.24	99.14	96.16	94.33	92.93	91.12	88.81	86.12
18.00	DISCHG	83.19	80.21	77.07	74.08	71.70	70.18	69.37	68.91	68.52	67.51
20.00	DISCHG	65.77	63.83	62.34	61.29	59.97	57.96	56.32	56.07	56.94	57.33
22.00	DISCHG	56.52	55.12	53.92	53.02	51.77	49.79	48.15	47.91	48.79	49.18
24.00	DISCHG	48.05	44.34	36.27	25.52	15.85	9.10	5.44	3.19	1.83	1.07
26.00	DISCHG	.61	.33	.17	.07	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1603 CFS-HRS= 2433.62 ACRE-FT= 201.11

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	151.386	(RUNOFF)
16.91	8.215	(RUNOFF)
19.33	6.137	(RUNOFF)
20.30	5.427	(RUNOFF)
21.50	5.411	(RUNOFF)
23.50	4.702	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.84	2.48	11.04	73.77

12.00	DISCHG	147.96	125.26	62.93	46.85	30.94	25.64	22.13	19.13	18.17	15.65
14.00	DISCHG	14.81	13.85	12.95	12.64	11.81	11.54	10.92	10.31	10.03	9.18
16.00	DISCHG	8.87	8.52	8.21	8.16	8.17	8.19	7.90	7.59	7.44	6.99
18.00	DISCHG	6.84	6.50	6.17	6.10	6.10	6.11	6.12	6.13	6.06	5.61
20.00	DISCHG	5.44	5.42	5.42	5.34	4.88	4.72	5.01	5.36	5.35	4.92
22.00	DISCHG	4.75	4.72	4.72	4.63	4.16	4.00	4.29	4.64	4.64	4.19
24.00	DISCHG	3.99	2.31	.52	.11	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8828 CFS-HRS= 193.70 ACRE-FT= 16.01

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	1193.662	(NULL)
21.80	61.911	(NULL)
23.77	53.040	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10.00	DISCHG	.19	.81	2.34	5.09	9.20	15.12	24.14	37.24	70.36	217.37
12.00	DISCHG	512.25	846.02	1107.26	1192.49	1063.14	854.55	662.24	518.01	414.14	340.05
14.00	DISCHG	288.28	249.54	220.58	199.17	181.81	168.62	158.15	149.57	142.13	134.64
16.00	DISCHG	127.91	121.38	115.44	110.59	106.77	104.08	101.98	100.07	97.99	95.15
18.00	DISCHG	92.26	89.01	85.65	82.51	79.71	77.57	76.21	75.45	74.90	73.83
20.00	DISCHG	72.47	70.71	68.96	67.50	65.85	64.15	62.63	61.77	61.76	61.91
22.00	DISCHG	61.76	60.84	59.58	58.38	56.87	55.24	53.74	52.90	52.90	53.03
24.00	DISCHG	52.75	49.23	42.53	33.60	23.43	14.65	8.65	5.14	3.01	1.74
26.00	DISCHG	1.01	.57	.31	.16	.07	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1338 CFS-HRS= 2626.97 ACRE-FT= 217.09

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	374.126	(RUNOFF)
16.91	17.121	(RUNOFF)
19.32	12.698	(RUNOFF)
20.31	11.197	(RUNOFF)
21.48	11.153	(RUNOFF)
22.30	9.720	(RUNOFF)
23.47	9.641	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.01	.35	1.22	2.35	4.33	6.14	10.35	15.33	45.32	223.57
12.00	DISCHG	373.26	265.57	128.06	97.03	62.94	54.04	45.98	40.20	38.16	32.65
14.00	DISCHG	31.18	28.90	27.15	26.53	24.65	24.18	22.70	21.51	20.95	18.98
16.00	DISCHG	18.47	17.68	17.07	16.99	17.01	17.04	16.32	15.72	15.40	14.42
18.00	DISCHG	14.16	13.36	12.72	12.62	12.62	12.64	12.66	12.68	12.47	11.48
20.00	DISCHG	11.21	11.17	11.17	10.97	9.95	9.69	10.42	11.09	11.02	10.01
22.00	DISCHG	9.74	9.69	9.69	9.48	8.45	8.17	8.92	9.59	9.49	8.49
24.00	DISCHG	8.20	4.12	.76	.13	.02					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1008 CFS-HRS= 440.45 ACRE-FT= 36.40

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.64	1246.458	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10.00	DISCHG	.12	.88	2.85	6.16	11.61	18.49	30.27	46.44	100.46	374.19
12.00	DISCHG	749.24	953.36	1108.10	1243.06	1180.89	1005.49	800.60	628.78	503.39	409.19
14.00	DISCHG	345.01	297.44	261.93	236.21	214.91	199.25	185.96	175.25	166.68	157.21
16.00	DISCHG	149.63	142.19	135.37	129.94	125.64	122.45	119.33	116.71	114.38	110.90
18.00	DISCHG	107.80	103.91	99.98	96.64	93.68	91.25	89.54	88.51	87.64	85.81
20.00	DISCHG	84.32	82.71	80.97	79.18	76.59	74.65	73.79	73.30	72.82	71.85
22.00	DISCHG	71.56	70.95	69.86	68.44	66.03	64.19	63.38	62.91	62.41	61.47
24.00	DISCHG	61.08	54.93	46.39	37.93	28.26	18.89	11.62	6.91	4.08	2.38
26.00	DISCHG	1.38	.79	.44	.23	.11	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1288 CFS-HRS= 3067.06 ACRE-FT= 253.46

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	399.431	(RUNOFF)
19.32	14.661	(RUNOFF)
21.56	12.686	(RUNOFF)
23.56	10.925	(RUNOFF)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= .66		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.07	.40	.95	1.66
10.00	DISCHG	2.46	3.49	4.90	6.39	8.83	11.47	15.61	22.27	44.37	182.85
12.00	DISCHG	366.02	387.38	237.65	153.69	105.45	76.86	63.15	52.47	47.59	42.14
14.00	DISCHG	38.23	35.84	33.18	31.81	30.09	28.80	27.63	25.96	24.99	23.37
16.00	DISCHG	22.07	21.25	20.33	19.93	19.82	19.80	19.43	18.65	18.18	17.34
18.00	DISCHG	16.68	16.06	15.19	14.79	14.67	14.64	14.64	14.65	14.56	13.85
20.00	DISCHG	13.21	13.00	12.93	12.81	12.08	11.45	11.63	12.39	12.67	12.06
22.00	DISCHG	11.47	11.26	11.20	11.06	10.32	9.68	9.87	10.63	10.91	10.30
24.00	DISCHG	9.65	7.37	3.13	1.04	.34	.11	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2891 CFS-HRS= 549.08 ACRE-FT= 45.38

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.72	1322.746	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= 4.87		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.07	.40	.95	1.67
10.00	DISCHG	2.51	3.88	6.46	10.32	16.76	25.20	37.92	57.60	109.64	381.43
12.00	DISCHG	858.69	1180.95	1228.96	1297.71	1312.82	1195.37	1006.04	806.53	645.08	522.03
14.00	DISCHG	432.24	369.17	321.81	287.44	260.75	239.82	223.38	209.13	198.02	187.30
16.00	DISCHG	177.28	168.79	160.64	153.88	148.65	144.64	141.01	137.28	134.26	130.63
18.00	DISCHG	126.72	122.69	117.97	113.87	110.50	107.68	105.48	103.97	102.85	100.88
20.00	DISCHG	98.62	96.85	95.14	93.27	90.44	87.53	86.13	86.08	85.84	84.56
22.00	DISCHG	83.29	82.63	81.79	80.48	77.98	75.22	73.92	73.92	73.68	72.40
24.00	DISCHG	71.05	66.19	55.35	44.99	35.41	25.72	17.04	10.53	6.30	3.72
26.00	DISCHG	2.17	1.26	.72	.40	.21	.08	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1503 CFS-HRS= 3615.30 ACRE-FT= 298.77

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 2200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.79	1302.520	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= 4.87		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.03	.23	.66	1.29

10.00	DISCHG	2.07	3.17	5.13	8.31	13.41	20.76	31.28	47.35	83.12	245.11
12.00	DISCHG	612.08	1001.99	1190.84	1260.70	1302.38	1252.52	1104.12	912.93	733.36	589.89
14.00	DISCHG	482.03	404.32	348.03	306.52	275.47	251.34	232.42	216.89	204.13	193.08
16.00	DISCHG	182.69	173.42	165.04	157.57	151.53	146.85	142.98	139.28	135.91	132.56
18.00	DISCHG	128.81	124.85	120.47	116.10	112.35	109.22	106.69	104.81	103.47	101.90
20.00	DISCHG	99.82	97.82	96.06	94.26	91.92	89.09	86.95	86.17	85.96	85.20
22.00	DISCHG	83.97	83.01	82.23	81.17	79.27	76.69	74.68	73.98	73.80	73.04
24.00	DISCHG	71.77	68.65	60.90	50.55	40.58	30.92	21.74	14.12	8.68	5.19
26.00	DISCHG	3.05	1.78	1.03	.58	.32	.15	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1498 CFS-HRS= 3613.86 ACRE-FT= 298.65

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	563.508	(RUNOFF)
21.63	20.316	(RUNOFF)
23.63	17.452	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.16	.69
10.00	DISCHG	1.61	2.89	4.64	6.76	9.72	13.48	18.69	26.90	52.77	187.34
12.00	DISCHG	428.61	563.05	457.74	309.84	217.73	156.36	121.38	98.78	84.27	73.88
14.00	DISCHG	65.84	60.67	56.18	52.97	50.28	47.83	45.85	43.42	41.42	39.21
16.00	DISCHG	36.90	35.29	33.78	32.75	32.33	32.18	31.81	30.80	29.90	28.81
18.00	DISCHG	27.64	26.66	25.37	24.42	24.00	23.84	23.79	23.78	23.70	22.97
20.00	DISCHG	21.96	21.37	21.13	20.93	20.15	19.12	18.88	19.65	20.31	19.94
22.00	DISCHG	19.07	18.53	18.31	18.10	17.32	16.29	16.05	16.80	17.44	17.07
24.00	DISCHG	16.11	13.60	8.31	3.82	1.67	.72	.31	.12	.04	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2220 CFS-HRS= 867.52 ACRE-FT= 71.69

SUBROUTINE REACH CROSS SECTION 105
LENGTH= 4200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .86

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.97	539.425	(RUNOFF)
16.90	20.571	(RUNOFF)
19.31	15.170	(RUNOFF)
20.31	13.356	(RUNOFF)
21.40	13.320	(RUNOFF)
22.30	11.567	(RUNOFF)
23.40	11.507	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.27	.89	1.60	2.50
10.00	DISCHG	3.30	5.00	6.42	8.39	11.93	14.07	22.96	28.93	107.06	387.32
12.00	DISCHG	532.89	235.25	129.89	105.82	68.03	64.23	51.52	47.75	44.80	38.09
14.00	DISCHG	37.45	33.62	32.46	31.49	29.23	29.03	26.45	25.64	24.65	22.30
16.00	DISCHG	22.07	20.76	20.35	20.35	20.38	20.42	19.09	18.68	18.16	16.97
18.00	DISCHG	16.86	15.48	15.06	15.04	15.06	15.08	15.10	15.11	14.62	13.41
20.00	DISCHG	13.28	13.29	13.30	12.80	11.57	11.46	12.84	13.32	12.87	11.63
22.00	DISCHG	11.50	11.50	11.51	11.00	9.75	9.63	11.03	11.51	11.04	9.79
24.00	DISCHG	9.66	2.50	.22	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2689 CFS-HRS= 556.88 ACRE-FT= 46.02

SUBROUTINE ADDHYD CROSS SECTION 105
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	731.218	(NULL)
12.33	650.103	(NULL)
21.52	32.528	(NULL)
23.51	27.863	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.78

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.27	.89	1.63	2.69
10.00	DISCHG	3.98	6.55	9.22	12.87	18.53	23.55	36.16	47.35	135.03	449.80
12.00	DISCHG	720.39	627.15	644.47	559.34	398.37	299.26	220.85	176.89	148.47	125.37
14.00	DISCHG	113.31	101.04	94.07	88.48	82.76	79.74	74.68	71.73	68.42	63.98
16.00	DISCHG	61.55	58.03	55.89	54.39	53.37	52.87	51.28	50.45	49.07	46.96
18.00	DISCHG	45.80	43.29	41.82	40.60	39.67	39.19	38.99	38.92	38.40	37.04
20.00	DISCHG	36.29	35.40	34.80	33.99	32.47	31.65	32.17	32.38	32.46	31.74
22.00	DISCHG	31.38	30.68	30.16	29.36	27.82	27.00	27.53	27.74	27.79	27.05
24.00	DISCHG	26.66	18.52	13.75	8.94	4.67	2.21	.99	.43	.18	.07
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2392 CFS-HRS= 1423.56 ACRE-FT= 117.64

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.27	671.787	(NULL)
21.60	32.395	(NULL)
23.59	27.731	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.78

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.09	.45	1.07	1.90
10.00	DISCHG	3.01	4.70	7.18	10.15	14.38	19.62	27.20	38.64	75.36	231.61
12.00	DISCHG	509.56	659.93	637.49	615.12	513.47	381.39	284.58	215.08	172.74	144.15
14.00	DISCHG	123.97	110.71	100.06	93.04	87.21	82.37	78.42	74.22	70.97	67.29
16.00	DISCHG	63.63	60.67	57.69	55.64	54.22	53.32	52.40	51.16	50.09	48.51
18.00	DISCHG	46.79	45.10	43.05	41.59	40.43	39.62	39.18	39.00	38.76	38.00
20.00	DISCHG	36.92	36.08	35.30	34.60	33.57	32.35	31.92	32.20	32.39	32.21
22.00	DISCHG	31.68	31.19	30.58	29.95	28.93	27.70	27.27	27.56	27.73	27.53
24.00	DISCHG	26.99	23.99	17.69	12.70	8.04	4.32	2.10	.96	.42	.18
26.00	DISCHG	.06	.00								

HYDROGRAPH 5 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE ADDHYD CROSS SECTION 205
INPUT HYDROGRAPHS= 5,1 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.59	1876.071	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 6.65

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.12	.68	1.74	3.19
10.00	DISCHG	5.07	7.87	12.31	18.46	27.79	40.38	58.48	85.99	158.48	476.72
12.00	DISCHG	1121.64	1661.91	1828.33	1875.82	1815.85	1633.91	1388.70	1128.02	906.11	734.05
14.00	DISCHG	606.00	515.02	448.09	399.57	362.67	333.71	310.84	291.11	275.10	260.38
16.00	DISCHG	246.32	234.09	222.72	213.21	205.75	200.17	195.38	190.44	186.00	181.07
18.00	DISCHG	175.60	169.95	163.53	157.68	152.78	148.84	145.87	143.81	142.23	139.90
20.00	DISCHG	136.74	133.90	131.36	128.87	125.49	121.44	118.87	118.38	118.35	117.41
22.00	DISCHG	115.65	114.20	112.81	111.12	108.20	104.39	101.96	101.55	101.53	100.58
24.00	DISCHG	98.76	92.64	78.59	63.24	48.62	35.24	23.84	15.08	9.10	5.36
26.00	DISCHG	3.12	1.78	1.03	.58	.32	.15	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1750 CFS-HRS= 5042.88 ACRE-FT= 416.74

HYDROGRAPH 6 PUNCHED OUTPUT REQUESTED AT THIS POINT

SUBROUTINE REACH CROSS SECTION 211
LENGTH= 3200.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.64	1865.879	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 6.65

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.09	.54	1.46	2.81
10.00	DISCHG	4.58	7.14	11.15	16.84	25.34	37.08	53.73	78.77	139.45	393.19
12.00	DISCHG	952.31	1519.92	1784.48	1863.30	1831.57	1681.67	1453.10	1196.50	964.43	779.27
14.00	DISCHG	639.66	538.94	465.68	412.32	372.37	341.32	316.85	296.29	279.31	264.25
16.00	DISCHG	250.02	237.30	225.71	215.71	207.71	201.64	196.64	191.74	187.17	182.36
18.00	DISCHG	177.03	171.43	165.21	159.22	154.07	149.87	146.65	144.35	142.64	140.51
20.00	DISCHG	137.57	134.65	132.03	129.52	126.37	122.50	119.55	118.51	118.36	117.66
22.00	DISCHG	116.12	114.58	113.18	111.56	108.97	105.39	102.60	101.66	101.54	100.83
24.00	DISCHG	99.24	94.25	82.28	67.28	52.47	38.75	26.83	17.38	10.67	6.34
26.00	DISCHG	3.71	2.13	1.23	.70	.39	.20	.07	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1749 CFS-HRS= 5042.39 ACRE-FT= 416.70

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.17	204.224	(RUNOFF)
19.35	9.370	(RUNOFF)
21.57	8.169	(RUNOFF)
23.57	7.071	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.71	2.58	10.48	67.25
12.00	DISCHG	168.09	202.78	133.46	89.47	62.57	46.29	38.38	32.09	29.11	25.92
14.00	DISCHG	23.55	22.13	20.56	19.73	18.71	17.93	17.25	16.26	15.67	14.68
16.00	DISCHG	13.87	13.37	12.82	12.57	12.51	12.51	12.30	11.83	11.54	11.03
18.00	DISCHG	10.61	10.24	9.70	9.43	9.36	9.34	9.35	9.37	9.32	8.88
20.00	DISCHG	8.48	8.34	8.30	8.23	7.78	7.37	7.48	7.96	8.16	7.79
22.00	DISCHG	7.41	7.28	7.23	7.16	6.70	6.28	6.38	6.87	7.06	6.69
24.00	DISCHG	6.28	4.85	2.12	.72	.25	.08	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8837 CFS-HRS= 296.57 ACRE-FT= 24.51

SUBROUTINE DIVERT CROSS SECTION 8
INPUT HYDROGRAPH= 6 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.41	175.820	(NULL)
19.51	9.369	(NULL)
21.79	8.030	(NULL)
23.79	6.932	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.70	2.77	13.63
12.00	DISCHG	60.41	137.92	175.78	142.34	103.32	73.67	54.05	42.65	35.09	30.66
14.00	DISCHG	27.16	24.53	22.73	21.16	20.08	19.06	18.21	17.45	16.57	15.85
16.00	DISCHG	14.96	14.16	13.57	13.03	12.71	12.57	12.51	12.32	11.95	11.62
18.00	DISCHG	11.17	10.75	10.34	9.87	9.56	9.42	9.37	9.36	9.36	9.29
20.00	DISCHG	8.97	8.62	8.43	8.33	8.22	7.88	7.54	7.55	7.85	8.03
22.00	DISCHG	7.93	7.53	7.35	7.26	7.15	6.80	6.45	6.45	6.76	6.93
24.00	DISCHG	6.73	6.28	5.03	2.89	1.35	.57	.23	.08	.03	.00

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 295.49 ACRE-FT= 24.42

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	266.599	(RUNOFF)
21.65	12.200	(RUNOFF)
23.65	10.513	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.04	.59	2.41	11.11	58.85
12.00	DISCHG	168.19	261.73	236.22	171.92	125.09	92.50	71.89	58.85	50.29	44.07
14.00	DISCHG	39.01	35.71	33.15	31.18	29.62	28.22	27.05	25.72	24.51	23.29
16.00	DISCHG	21.99	20.99	20.12	19.49	19.19	19.07	18.87	18.38	17.86	17.25
18.00	DISCHG	16.58	15.97	15.28	14.69	14.40	14.28	14.24	14.24	14.18	13.83
20.00	DISCHG	13.28	12.89	12.72	12.60	12.19	11.62	11.41	11.77	12.18	12.05
22.00	DISCHG	11.58	11.24	11.09	10.96	10.55	9.95	9.73	10.11	10.50	10.37
24.00	DISCHG	9.86	8.56	5.58	2.80	1.31	.61	.28	.12	.05	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8835 CFS-HRS= 450.46 ACRE-FT= 37.23

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.32	420.291	(NULL)
21.71	20.144	(NULL)
23.71	17.376	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.69	3.12	13.88	72.48
12.00	DISCHG	228.60	399.65	412.00	314.27	228.40	166.17	125.93	101.50	85.37	74.73
14.00	DISCHG	66.17	60.24	55.88	52.34	49.70	47.28	45.26	43.17	41.09	39.14
16.00	DISCHG	36.95	35.15	33.69	32.52	31.90	31.64	31.38	30.70	29.81	28.87
18.00	DISCHG	27.75	26.72	25.62	24.57	23.96	23.70	23.61	23.59	23.54	23.12
20.00	DISCHG	22.25	21.51	21.15	20.93	20.41	19.50	18.95	19.31	20.03	20.08
22.00	DISCHG	19.41	18.77	18.44	18.22	17.70	16.75	16.18	16.56	17.25	17.30
24.00	DISCHG	16.59	14.84	10.60	5.69	2.66	1.19	.51	.21	.08	.02
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4631 CFS-HRS= 745.94 ACRE-FT= 61.64

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.895 AVERAGE ROUTING COEFF= .6300 NUMBER OF ROUTINGS= .27

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	8.310	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.00	.00	8.19	3.57	.22	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0041 CFS-HRS= 2.08 ACRE-FT= .17

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	37.944	(RUNOFF)
16.94	5.383	(RUNOFF)

19.43	4.182	(RUNOFF)
21.60	3.720	(RUNOFF)
23.60	3.267	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .43

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83
12.00	DISCHG	13.99	36.00	33.49	26.55	21.24	16.73	14.39	12.42	11.25	10.23
14.00	DISCHG	9.37	8.85	8.30	7.99	7.66	7.38	7.15	6.80	6.56	6.22
16.00	DISCHG	5.90	5.70	5.49	5.38	5.36	5.38	5.32	5.16	5.04	4.86
18.00	DISCHG	4.68	4.53	4.31	4.19	4.16	4.15	4.17	4.18	4.17	4.02
20.00	DISCHG	3.85	3.78	3.76	3.73	3.57	3.38	3.40	3.60	3.72	3.60
22.00	DISCHG	3.43	3.36	3.34	3.31	3.13	2.94	2.96	3.15	3.27	3.14
24.00	DISCHG	2.96	2.41	1.21	.46	.18	.07	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3218 CFS-HRS= 89.30 ACRE-FT= 7.38

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	37.944	(NULL)
16.94	5.383	(NULL)
19.43	4.182	(NULL)
21.60	3.720	(NULL)
23.60	3.267	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83
12.00	DISCHG	13.99	36.00	33.49	26.55	21.24	16.73	14.39	12.42	11.25	10.23
14.00	DISCHG	9.37	8.85	8.30	7.99	7.66	7.38	7.15	6.80	6.56	6.22
16.00	DISCHG	5.90	5.70	5.49	5.38	5.36	5.38	5.32	5.16	5.04	4.86
18.00	DISCHG	4.68	4.53	4.31	4.19	4.16	4.15	4.17	4.18	4.17	4.02
20.00	DISCHG	3.85	3.78	3.76	3.73	3.57	3.38	3.40	3.60	3.72	3.60
22.00	DISCHG	3.43	3.36	3.34	3.31	3.13	2.94	2.96	3.15	3.27	3.14
24.00	DISCHG	2.96	2.41	1.21	.46	.18	.07	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1134 CFS-HRS= 89.30 ACRE-FT= 7.38

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.32	416.660	(NULL)
21.71	20.144	(NULL)
23.71	17.376	(NULL)

```
 TIME                                HYDROGRAPH, TZERO=     .00         DELTA T=  .20         DRAINAGE AREA=     .00
  .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
10.00    DISCHG          .00        .00        .00        .00        .00        .05        .69       3.12      13.88      72.48
12.00    DISCHG       228.60     399.65     408.19     317.84     228.63     166.17     125.93     101.50      85.37      74.73
14.00    DISCHG        66.17      60.24      55.88      52.34      49.70      47.28      45.26      43.17      41.09      39.14
16.00    DISCHG        36.95      35.15      33.69      32.52      31.90      31.64      31.38      30.70      29.81      28.87
18.00    DISCHG        27.75      26.72      25.62      24.57      23.96      23.70      23.61      23.59      23.54      23.12
20.00    DISCHG        22.25      21.51      21.15      20.93      20.41      19.50      18.95      19.31      20.03      20.08
22.00    DISCHG        19.41      18.77      18.44      18.22      17.70      16.75      16.18      16.56      17.25      17.30
24.00    DISCHG        16.59      14.84      10.60       5.69       2.66       1.19        .51        .21        .08        .02
26.00    DISCHG          .00

   TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=       746.42        ACRE-FT=       61.68


SUBROUTINE SAVMOV    CROSS SECTION 411
           INPUT HYDROGRAPH= 5      OUTPUT HYDROGRAPH= 2


SUBROUTINE DIVERT    CROSS SECTION 410
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPHS= 4,6


SUBROUTINE REACH     CROSS SECTION 510
           LENGTH=   3200.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

 TIME                                HYDROGRAPH, TZERO=     .00         DELTA T=  .20         DRAINAGE AREA=   1.22
  .00    DISCHG          .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=          .00


SUBROUTINE ADDHYD    CROSS SECTION 511
           INPUT HYDROGRAPHS= 2,4      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.31                        451.771                        (NULL)
              19.31                         27.783                        (NULL)
              21.68                         23.832                        (NULL)
              23.68                         20.596                        (NULL)

 TIME                                HYDROGRAPH, TZERO=     .00         DELTA T=  .20         DRAINAGE AREA=     .00
  .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
 8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
10.00    DISCHG          .00        .00        .00        .00        .00        .05        .69       3.12      13.88      73.31
12.00    DISCHG       242.59     435.66     441.68     344.39     249.87     182.91     140.32     113.92      96.62      84.96
14.00    DISCHG        75.54      69.09      64.18      60.33      57.36      54.65      52.41      49.97      47.65      45.36
16.00    DISCHG        42.85      40.85      39.18      37.90      37.26      37.02      36.70      35.86      34.85      33.73
```

18.00	DISCHG	32.44	31.26	29.94	28.76	28.11	27.85	27.77	27.78	27.72	27.15
20.00	DISCHG	26.10	25.29	24.91	24.67	23.98	22.88	22.35	22.91	23.75	23.67
22.00	DISCHG	22.84	22.13	21.78	21.53	20.83	19.69	19.14	19.71	20.52	20.45
24.00	DISCHG	19.55	17.24	11.82	6.15	2.94	1.25	.53	.22	.08	.02
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 835.72 ACRE-FT= 69.06

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	30.241	(RUNOFF)
21.76	3.883	(RUNOFF)
23.74	3.397	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
12.00	DISCHG	6.00	18.10	28.01	30.22	27.09	22.78	19.20	16.45	14.41	12.86
14.00	DISCHG	11.60	10.63	9.84	9.22	8.74	8.35	8.03	7.70	7.38	7.06
16.00	DISCHG	6.73	6.44	6.18	5.99	5.86	5.80	5.76	5.67	5.55	5.40
18.00	DISCHG	5.22	5.05	4.86	4.69	4.57	4.51	4.48	4.48	4.47	4.41
20.00	DISCHG	4.29	4.17	4.09	4.04	3.96	3.82	3.73	3.75	3.84	3.88
22.00	DISCHG	3.80	3.70	3.63	3.59	3.50	3.36	3.25	3.27	3.37	3.39
24.00	DISCHG	3.30	3.00	2.33	1.51	.86	.46	.26	.14	.08	.04
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3211 CFS-HRS= 95.32 ACRE-FT= 7.88

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	30.241	(NULL)
21.76	3.883	(NULL)
23.74	3.397	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40
12.00	DISCHG	6.00	18.10	28.01	30.22	27.09	22.78	19.20	16.45	14.41	12.86
14.00	DISCHG	11.60	10.63	9.84	9.22	8.74	8.35	8.03	7.70	7.38	7.06
16.00	DISCHG	6.73	6.44	6.18	5.99	5.86	5.80	5.76	5.67	5.55	5.40
18.00	DISCHG	5.22	5.05	4.86	4.69	4.57	4.51	4.48	4.48	4.47	4.41
20.00	DISCHG	4.29	4.17	4.09	4.04	3.96	3.82	3.73	3.75	3.84	3.88
22.00	DISCHG	3.80	3.70	3.63	3.59	3.50	3.36	3.25	3.27	3.37	3.39
24.00	DISCHG	3.30	3.00	2.33	1.51	.86	.46	.26	.14	.08	.04
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0879 CFS-HRS= 95.32 ACRE-FT= 7.88

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.31	451.771	(NULL)
19.31	27.783	(NULL)
21.68	23.832	(NULL)
23.68	20.596	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.69	3.12	13.88	73.31
12.00	DISCHG	242.59	435.66	441.68	344.39	249.87	182.91	140.32	113.92	96.62	84.96
14.00	DISCHG	75.54	69.09	64.18	60.33	57.36	54.65	52.41	49.97	47.65	45.36
16.00	DISCHG	42.85	40.85	39.18	37.90	37.26	37.02	36.70	35.86	34.85	33.73
18.00	DISCHG	32.44	31.26	29.94	28.76	28.11	27.85	27.77	27.78	27.72	27.15
20.00	DISCHG	26.10	25.29	24.91	24.67	23.98	22.88	22.35	22.91	23.75	23.67
22.00	DISCHG	22.84	22.13	21.78	21.53	20.83	19.69	19.14	19.71	20.52	20.45
24.00	DISCHG	19.55	17.24	11.82	6.15	2.84	1.25	.53	.22	.08	.02
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 835.72 ACRE-FT= 69.06

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 610

INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 710
LENGTH= 700.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68
.00 DISCHG .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 711
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.33	476.757	(NULL)
19.30	32.262	(NULL)
21.69	27.699	(NULL)
23.69	23.985	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.05	.69	3.12	13.88	73.71
12.00	DISCHG	248.59	453.76	469.69	374.61	276.96	205.68	159.52	130.37	111.03	97.82
14.00	DISCHG	87.14	79.72	74.03	69.55	66.10	63.01	60.44	57.67	55.03	52.42
16.00	DISCHG	49.58	47.29	45.36	43.89	43.12	42.83	42.46	41.52	40.40	39.12
18.00	DISCHG	37.66	36.31	34.80	33.44	32.68	32.36	32.25	32.25	32.19	31.55
20.00	DISCHG	30.39	29.46	29.00	28.71	27.94	26.70	26.08	26.66	27.60	27.56
22.00	DISCHG	26.64	25.83	25.41	25.12	24.34	23.05	22.38	22.99	23.89	23.84
24.00	DISCHG	22.85	20.24	14.15	7.66	3.69	1.71	.79	.36	.16	.06
26.00	DISCHG	.02	.01	.00							

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 931.05 ACRE-FT= 76.94

SUBROUTINE SAVMOV CROSS SECTION 711
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE SAVMOV CROSS SECTION 710
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 209
AREA= .04 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	18.664	(RUNOFF)
15.91	.367	(RUNOFF)
17.32	.723	(RUNOFF)

20.31	.639	(RUNOFF)
21.49	.639	(RUNOFF)
22.30	.556	(RUNOFF)
23.48	.553	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.11	.31	1.49	9.69
12.00	DISCHG	18.51	13.82	6.82	5.26	3.44	2.97	2.53	2.22	2.11	1.81
14.00	DISCHG	1.73	1.61	1.51	1.48	1.38	1.35	1.27	1.21	1.18	1.07
16.00	DISCHG	1.04	1.00	.96	.96	.96	.96	.92	.89	.87	.82
18.00	DISCHG	.80	.76	.72	.72	.72	.72	.72	.72	.71	.65
20.00	DISCHG	.64	.64	.64	.63	.57	.55	.60	.63	.63	.57
22.00	DISCHG	.56	.55	.55	.54	.48	.47	.51	.55	.54	.49
24.00	DISCHG	.47	.24	.04	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8807 CFS-HRS= 22.74 ACRE-FT= 1.88

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	18.664	(NULL)
16.91	.967	(NULL)
19.32	.723	(NULL)
20.31	.639	(NULL)
21.49	.639	(NULL)
22.30	.556	(NULL)
23.48	.553	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.11	.31	1.49	9.69
12.00	DISCHG	18.51	13.82	6.82	5.26	3.44	2.97	2.53	2.22	2.11	1.81
14.00	DISCHG	1.73	1.61	1.51	1.48	1.38	1.35	1.27	1.21	1.18	1.07
16.00	DISCHG	1.04	1.00	.96	.96	.96	.96	.92	.89	.87	.82
18.00	DISCHG	.80	.76	.72	.72	.72	.72	.72	.72	.71	.65
20.00	DISCHG	.64	.64	.64	.63	.57	.55	.60	.63	.63	.57
22.00	DISCHG	.56	.55	.55	.54	.48	.47	.51	.55	.54	.49
24.00	DISCHG	.47	.24	.04	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

12.99	8.898	(NULL)
22.14	.607	(NULL)
24.13	.522	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04
12.00	DISCHG	.18	1.01	3.32	6.36	8.40	8.90	8.33	7.23	6.03	4.96
14.00	DISCHG	4.08	3.40	2.87	2.48	2.18	1.95	1.79	1.65	1.55	1.46
16.00	DISCHG	1.38	1.31	1.24	1.18	1.12	1.07	1.04	1.01	.99	.97
18.00	DISCHG	.95	.92	.89	.87	.83	.80	.78	.76	.74	.73
20.00	DISCHG	.73	.72	.70	.69	.67	.66	.65	.63	.61	.60
22.00	DISCHG	.61	.61	.60	.59	.58	.57	.56	.54	.53	.52
24.00	DISCHG	.52	.52	.52	.49	.43	.34	.25	.17	.11	.07
26.00	DISCHG	.04	.03	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0629 CFS-HRS= 22.72 ACRE-FT= 1.88

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	72.085	(RUNOFF)
21.79	4.257	(RUNOFF)
23.76	3.662	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.39	2.29	10.53
12.00	DISCHG	29.86	55.21	70.65	69.13	58.43	45.96	36.41	29.44	24.23	20.47
14.00	DISCHG	17.61	15.54	13.94	12.70	11.71	10.91	10.30	9.78	9.29	8.84
16.00	DISCHG	8.38	7.96	7.59	7.29	7.07	6.93	6.82	6.70	6.54	6.35
18.00	DISCHG	6.14	5.93	5.71	5.49	5.32	5.20	5.13	5.09	5.06	5.00
20.00	DISCHG	4.88	4.74	4.63	4.55	4.46	4.32	4.20	4.17	4.22	4.26
22.00	DISCHG	4.21	4.11	4.02	3.95	3.87	3.73	3.61	3.58	3.63	3.66
24.00	DISCHG	3.59	3.33	2.78	2.03	1.32	.80	.48	.29	.17	.10
26.00	DISCHG	.06	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8823 CFS-HRS= 159.43 ACRE-FT= 13.18

SUBROUTINE ADDHYD CROSS SECTION 208
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	76.118	(NULL)
21.78	4.861	(NULL)
23.75	4.182	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .84

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.10	.39	2.30	10.57
12.00	DISCHG	30.04	56.22	73.97	75.49	66.82	54.86	44.73	36.66	30.26	25.43
14.00	DISCHG	21.69	18.93	16.81	15.18	13.89	12.86	12.09	11.43	10.84	10.30
16.00	DISCHG	9.76	9.27	8.83	8.46	8.19	8.00	7.86	7.71	7.53	7.32
18.00	DISCHG	7.09	6.85	6.60	6.36	6.15	6.00	5.91	5.85	5.80	5.73
20.00	DISCHG	5.61	5.46	5.34	5.24	5.13	4.98	4.84	4.79	4.83	4.86
22.00	DISCHG	4.82	4.72	4.62	4.55	4.45	4.30	4.17	4.12	4.15	4.18
24.00	DISCHG	4.11	3.85	3.30	2.52	1.75	1.14	.73	.45	.28	.17
26.00	DISCHG	.11	.06	.03	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3360 CFS-HRS= 182.15 ACRE-FT= 15.05

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 1,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.63	1940.514	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.49

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.09	.54	1.46	2.81
10.00	DISCHG	4.58	7.14	11.15	16.84	25.34	37.09	53.83	79.16	141.75	403.76
12.00	DISCHG	982.35	1576.14	1858.45	1938.79	1898.40	1736.53	1497.83	1233.17	994.69	804.70
14.00	DISCHG	661.35	557.87	482.50	427.50	386.26	354.19	328.94	307.73	290.15	274.54
16.00	DISCHG	259.78	246.58	234.54	224.18	215.90	209.64	204.50	199.45	194.70	189.68
18.00	DISCHG	184.12	178.28	171.81	165.57	160.22	155.88	152.56	150.20	148.45	146.24
20.00	DISCHG	143.18	140.11	137.36	134.76	131.50	127.48	124.39	123.30	123.19	122.52
22.00	DISCHG	120.93	119.30	117.80	116.11	113.42	109.70	106.77	105.78	105.69	105.01
24.00	DISCHG	103.35	98.10	85.58	69.80	54.21	39.89	27.56	17.84	10.96	6.52
26.00	DISCHG	3.81	2.19	1.26	.72	.39	.20	.07	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0808 CFS-HRS= 5224.55 ACRE-FT= 431.76

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.98	1893.646	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.49

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.05	.31	.96
10.00	DISCHG	2.03	3.53	5.64	8.84	13.52	20.41	30.19	44.03	64.49	107.98
12.00	DISCHG	269.59	670.44	1210.68	1628.51	1841.16	1892.81	1812.80	1632.05	1394.76	1150.75
14.00	DISCHG	936.03	763.90	633.87	538.18	468.18	416.49	377.34	347.00	322.54	302.39
16.00	DISCHG	285.18	269.59	255.43	242.59	231.22	221.68	214.13	208.12	202.80	197.84
18.00	DISCHG	192.89	187.62	181.98	175.87	169.61	163.83	158.89	154.92	151.94	149.73
20.00	DISCHG	147.63	145.01	142.05	139.18	136.48	133.51	129.92	126.50	124.37	123.51
22.00	DISCHG	122.92	121.80	120.30	118.78	117.17	114.98	111.88	108.74	106.76	105.99
24.00	DISCHG	105.41	104.25	100.84	92.29	79.10	64.09	49.30	35.90	24.65	16.01
26.00	DISCHG	9.95	5.99	3.53	2.05	1.18	.66	.36	.17	.06	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0807 CFS-HRS= 5224.01 ACRE-FT= 431.71

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.98	1893.646	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.05	.31	.96
10.00	DISCHG	2.03	3.53	5.64	8.84	13.52	20.41	30.19	44.03	64.49	107.98
12.00	DISCHG	269.59	670.44	1210.68	1628.51	1841.16	1892.81	1812.80	1632.05	1394.76	1150.75
14.00	DISCHG	936.03	763.90	633.87	538.18	468.18	416.49	377.34	347.00	322.54	302.39
16.00	DISCHG	285.18	269.59	255.43	242.59	231.22	221.68	214.13	208.12	202.80	197.84
18.00	DISCHG	192.89	187.62	181.98	175.87	169.61	163.83	158.89	154.92	151.94	149.73
20.00	DISCHG	147.63	145.01	142.05	139.18	136.48	133.51	129.92	126.50	124.37	123.51
22.00	DISCHG	122.92	121.80	120.30	118.78	117.17	114.98	111.88	108.74	106.76	105.99
24.00	DISCHG	105.41	104.25	100.84	92.29	79.10	64.09	49.30	35.90	24.65	16.01
26.00	DISCHG	9.95	5.99	3.53	2.05	1.18	.66	.36	.17	.06	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8827 CFS-HRS= 5224.01 ACRE-FT= 431.71

ENDCMP

PASS= 4

EXECUTIVE CONTROL CARD 63 OPERATION COMPUT, FROM XSECTN/STRUCT 1/ 0 TO XSECTN/STRUCT 712/ 0
STARTING TIME= .00 RAIN DEPTH= 2.20 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 4

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= 3.25 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.45	728.440	(RUNOFF)
21.77	40.082	(RUNOFF)
23.75	34.521	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.25

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.07	.75	3.08	8.18	30.08	123.31
12.00	DISCHG	335.23	597.36	723.47	679.44	552.68	425.73	335.21	266.93	219.89	186.62
14.00	DISCHG	161.40	142.44	128.38	117.25	108.34	101.54	96.29	91.43	87.01	82.70
16.00	DISCHG	78.42	74.49	71.09	68.33	66.33	65.12	64.20	63.00	61.45	59.62
18.00	DISCHG	57.63	55.60	53.45	51.41	49.79	48.76	48.22	47.93	47.67	47.00
20.00	DISCHG	45.80	44.47	43.46	42.74	41.84	40.45	39.32	39.16	39.79	40.07
22.00	DISCHG	39.52	38.56	37.73	37.12	36.25	34.88	33.74	33.58	34.21	34.49
24.00	DISCHG	33.71	31.11	25.45	17.91	11.12	6.39	3.82	2.24	1.29	.75
26.00	DISCHG	.43	.23	.12	.05	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7339 CFS-HRS= 1539.36 ACRE-FT= 127.21

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= .34 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	82.521	(RUNOFF)
16.92	5.393	(RUNOFF)
19.34	4.068	(RUNOFF)
20.31	3.608	(RUNOFF)
21.50	3.608	(RUNOFF)
22.30	3.159	(RUNOFF)
23.50	3.149	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .34

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.44	28.80
12.00	DISCHG	78.24	72.33	37.71	28.89	19.33	16.16	14.02	12.17	11.60	10.02
14.00	DISCHG	9.51	8.91	8.35	8.17	7.65	7.48	7.10	6.71	6.54	5.99
16.00	DISCHG	5.79	5.57	5.37	5.34	5.36	5.38	5.19	4.99	4.90	4.61
18.00	DISCHG	4.51	4.29	4.07	4.03	4.03	4.04	4.05	4.07	4.02	3.72
20.00	DISCHG	3.62	3.60	3.60	3.55	3.25	3.14	3.34	3.57	3.57	3.28
22.00	DISCHG	3.17	3.15	3.15	3.10	2.79	2.67	2.87	3.11	3.11	2.81
24.00	DISCHG	2.68	1.55	.35	.07	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5195 CFS-HRS= 113.98 ACRE-FT= 9.42

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	722.250	(NULL)
21.82	43.111	(NULL)
23.78	37.056	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.02	.29	1.46	4.55	16.41	87.84
12.00	DISCHG	263.22	473.97	649.82	722.16	658.46	538.58	423.06	334.92	270.63	224.28
14.00	DISCHG	191.57	166.87	148.27	134.45	123.19	114.56	107.66	101.98	97.03	92.04
16.00	DISCHG	87.54	83.15	79.16	75.89	73.33	71.53	70.15	68.90	67.51	65.61
18.00	DISCHG	63.66	61.46	59.18	57.04	55.13	53.67	52.75	52.25	51.90	51.20
20.00	DISCHG	50.28	49.08	47.88	46.88	45.77	44.61	43.55	42.97	42.97	43.11
22.00	DISCHG	43.03	42.40	41.53	40.71	39.68	38.56	37.51	36.92	36.93	37.05
24.00	DISCHG	36.87	34.46	29.83	23.57	16.44	10.28	6.07	3.61	2.11	1.22
26.00	DISCHG	.71	.40	.22	.11	.05	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7135 CFS-HRS= 1653.18 ACRE-FT= 136.62

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 2000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .41

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= .62 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .28

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	225.124	(RUNOFF)
16.91	11.724	(RUNOFF)
19.32	8.759	(RUNOFF)
20.31	7.742	(RUNOFF)
21.48	7.729	(RUNOFF)
22.30	6.746	(RUNOFF)
23.49	6.705	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .62

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.06	1.20	3.58	17.56	116.22
12.00	DISCHG	223.15	166.92	82.49	63.63	41.61	35.92	30.67	26.89	25.60	21.95
14.00	DISCHG	21.00	19.50	18.35	17.96	16.70	16.41	15.42	14.63	14.27	12.94
16.00	DISCHG	12.60	12.07	11.66	11.62	11.64	11.67	11.19	10.78	10.57	9.91
18.00	DISCHG	9.73	9.19	8.76	8.69	8.69	8.71	8.73	8.75	8.61	7.93
20.00	DISCHG	7.74	7.72	7.73	7.59	6.89	6.71	7.22	7.69	7.64	6.94
22.00	DISCHG	6.75	6.73	6.73	6.58	5.87	5.68	6.20	6.67	6.60	5.91
24.00	DISCHG	5.71	2.87	.53	.09	.01					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6864 CFS-HRS= 274.66 ACRE-FT= 22.70

SUBROUTINE ADDHYD CROSS SECTION 103
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.66	754.228	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.21

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.01	.23	2.13	6.72	28.57	171.76
12.00	DISCHG	405.81	541.34	647.13	747.84	726.07	629.82	509.03	404.86	327.81	269.03
14.00	DISCHG	228.70	198.48	175.73	159.18	145.37	135.18	126.44	119.37	113.69	107.37
16.00	DISCHG	102.31	97.32	92.75	89.10	86.22	84.09	82.01	80.28	78.74	76.41
18.00	DISCHG	74.32	71.69	69.02	66.76	64.74	63.09	61.94	61.25	60.68	59.45
20.00	DISCHG	58.46	57.37	56.18	54.96	53.19	51.87	51.28	50.95	50.63	49.99
22.00	DISCHG	49.81	49.41	48.67	47.69	46.04	44.77	44.21	43.88	43.55	42.91
24.00	DISCHG	42.66	38.42	32.50	26.60	19.83	13.26	8.15	4.85	2.86	1.67
26.00	DISCHG	.97	.56	.31	.16	.08	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7095 CFS-HRS= 1927.80 ACRE-FT= 159.31

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2800.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .57

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= .66 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .44

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	254.046	(RUNOFF)
19.34	10.388	(RUNOFF)
21.56	9.024	(RUNOFF)
23.56	7.793	(RUNOFF)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= .66		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.18	.76	1.84	3.23	5.43	8.95	21.16	102.54
12.00	DISCHG	224.33	249.09	156.05	102.77	71.37	52.49	43.40	36.20	32.91	29.20
14.00	DISCHG	26.54	24.92	23.10	22.18	21.00	20.13	19.33	18.18	17.52	16.39
16.00	DISCHG	15.49	14.93	14.29	14.02	13.95	13.94	13.69	13.15	12.83	12.24
18.00	DISCHG	11.78	11.35	10.74	10.46	10.38	10.36	10.37	10.38	10.32	9.82
20.00	DISCHG	9.38	9.23	9.18	9.10	8.58	8.14	8.27	8.81	9.01	8.58
22.00	DISCHG	8.16	8.02	7.97	7.88	7.36	6.90	7.03	7.58	7.78	7.35
24.00	DISCHG	6.89	5.26	2.23	.74	.25	.08	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8361 CFS-HRS= 356.12 ACRE-FT= 29.43

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.76	803.760	(NULL)
23.32	51.746	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= 4.87		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.18	.76	1.85	3.32	6.35	12.64	35.68	182.98
12.00	DISCHG	472.31	685.90	723.93	777.70	801.93	743.07	635.59	516.62	418.37	342.22
14.00	DISCHG	285.97	246.15	215.91	193.85	176.58	162.96	152.20	142.78	135.41	128.24
16.00	DISCHG	121.53	115.84	110.35	105.81	102.31	99.64	97.21	94.71	92.70	90.25
18.00	DISCHG	87.61	84.88	81.66	78.88	76.59	74.67	73.18	72.18	71.43	70.10
20.00	DISCHG	68.56	67.36	66.20	64.93	62.98	60.98	60.04	60.03	59.88	59.00
22.00	DISCHG	58.14	57.70	57.14	56.25	54.51	52.60	51.71	51.73	51.57	50.69
24.00	DISCHG	49.76	46.36	38.77	31.54	24.84	18.05	11.96	7.39	4.42	2.61
26.00	DISCHG	1.52	.88	.51	.28	.15	.06	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7266 CFS-HRS= 2283.82 ACRE-FT= 188.73

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 2200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.84	788.775	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= 4.87		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.10	.47	1.29	2.55	4.79	9.41	24.05	109.32
12.00	DISCHG	323.53	568.47	695.70	748.88	787.64	770.98	690.90	579.81	471.97	384.13
14.00	DISCHG	317.12	268.32	232.62	206.09	186.09	170.45	158.11	147.90	139.46	132.11
16.00	DISCHG	125.15	118.94	113.31	108.29	104.24	101.11	98.52	96.05	93.80	91.55
18.00	DISCHG	89.02	86.34	83.37	80.39	77.84	75.72	74.00	72.74	71.84	70.79
20.00	DISCHG	69.37	68.02	66.83	65.61	64.00	62.05	60.59	60.08	59.96	59.44
22.00	DISCHG	58.60	57.95	57.44	56.71	55.41	53.62	52.23	51.76	51.65	51.13
24.00	DISCHG	50.25	48.08	42.66	35.42	28.46	21.69	15.26	9.91	6.09	3.64
26.00	DISCHG	2.14	1.25	.72	.41	.22	.11	.03	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7264 CFS-HRS= 2282.90 ACRE-FT= 188.66

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 1.10 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	349.623	(RUNOFF)
19.32	16.706	(RUNOFF)
21.63	14.328	(RUNOFF)
23.63	12.346	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.10

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.08	.66	2.03	4.49	8.55	22.18	98.65
12.00	DISCHG	250.46	348.27	291.29	200.96	143.44	104.24	81.70	66.98	57.47	50.58
14.00	DISCHG	45.18	41.71	38.69	36.53	34.73	33.08	31.74	30.09	28.74	27.23
16.00	DISCHG	25.65	24.55	23.52	22.82	22.54	22.45	22.20	21.51	20.90	20.15
18.00	DISCHG	19.34	18.67	17.78	17.11	16.83	16.73	16.70	16.70	16.65	16.15
20.00	DISCHG	15.44	15.03	14.87	14.73	14.19	13.47	13.31	13.85	14.32	14.06
22.00	DISCHG	13.46	13.08	12.93	12.79	12.24	11.52	11.35	11.88	12.34	12.08
24.00	DISCHG	11.40	9.63	5.88	2.70	1.18	.51	.22	.09	.03	.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7829 CFS-HRS= 555.80 ACRE-FT= 45.93

SUBROUTINE REACH CROSS SECTION 105
LENGTH= 4200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .86

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= .68 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.98	346.641	(RUNOFF)
16.91	14.495	(RUNOFF)
19.31	10.752	(RUNOFF)
20.31	9.485	(RUNOFF)
21.40	9.476	(RUNOFF)
22.31	8.240	(RUNOFF)

23.40 8.209 (RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.03	.58	1.58	3.23	4.70	8.99	12.70	54.67	229.72
12.00	DISCHG	344.43	156.66	88.02	72.38	46.68	44.23	35.57	33.04	31.05	26.45
14.00	DISCHG	26.05	23.42	22.63	21.98	20.43	20.31	18.52	17.97	17.29	15.65
16.00	DISCHG	15.51	14.59	14.32	14.32	14.36	14.39	13.46	13.18	12.82	11.99
18.00	DISCHG	11.92	10.95	10.66	10.64	10.66	10.68	10.70	10.72	10.37	9.51
20.00	DISCHG	9.43	9.43	9.45	9.10	8.22	8.15	9.13	9.48	9.16	8.28
22.00	DISCHG	8.19	8.19	8.20	7.84	6.95	6.87	7.87	8.21	7.88	6.99
24.00	DISCHG	6.90	1.78	.16	.01						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8224 CFS-HRS= 360.89 ACRE-FT= 29.82

SUBROUTINE ADDHYD CROSS SECTION 105
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	453.218	(NULL)
12.36	405.814	(NULL)
21.52	23.015	(NULL)
23.51	19.774	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.78

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.03	.58	1.59	3.36	5.40	11.01	17.11	63.85	257.65
12.00	DISCHG	444.86	385.86	404.39	358.96	259.59	198.19	147.96	119.68	101.19	85.87
14.00	DISCHG	77.92	69.64	64.97	61.21	57.34	55.32	51.87	49.87	47.62	44.56
16.00	DISCHG	42.92	40.49	39.04	38.02	37.33	37.01	35.92	35.36	34.41	32.95
18.00	DISCHG	32.15	30.41	29.39	28.55	27.91	27.59	27.46	27.43	27.07	26.12
20.00	DISCHG	25.59	24.98	24.57	24.01	22.93	22.37	22.75	22.91	22.97	22.46
22.00	DISCHG	22.21	21.73	21.36	20.80	19.72	19.14	19.53	19.68	19.72	19.19
24.00	DISCHG	18.93	13.12	9.73	6.33	3.31	1.56	.70	.31	.13	.05
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7975 CFS-HRS= 916.18 ACRE-FT= 75.71

SUBROUTINE REACH CROSS SECTION 205
LENGTH= 3000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	414.740	(NULL)
21.61	22.911	(NULL)
23.53	19.678	(NULL)

```
 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=   1.78
  .00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
 2.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
 4.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
 6.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
 8.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
10.00    DISCHG          .00       .01       .21       .87      2.08      3.86      7.05     12.49     32.04    124.01
12.00    DISCHG       301.41    405.20    394.73    387.90    329.88    248.93    188.52    144.19    116.94     98.28
14.00    DISCHG        84.95     76.14     68.99     64.28     60.35     57.08     54.42     51.56     49.36     46.84
16.00    DISCHG        44.33     42.31     40.26     38.87     37.91     37.31     36.69     35.84     35.11     34.02
18.00    DISCHG        32.84     31.67     30.24     29.23     28.43     27.88     27.59     27.47     27.31     26.79
20.00    DISCHG        26.04     25.45     24.91     24.43     23.71     22.85     22.56     22.77     22.91     22.79
22.00    DISCHG        22.42     22.08     21.65     21.22     20.50     19.63     19.34     19.55     19.68     19.54
24.00    DISCHG        19.15     17.02     12.54      8.99      5.69      3.06      1.48       .68       .30       .13
26.00    DISCHG          .04       .00

                    ***HYDROGRAPH  7  PUNCHED OUTPUT REQUESTED AT THIS POINT***


SUBROUTINE ADDHYD    CROSS SECTION 205
           INPUT HYDROGRAPHS= 5,1      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.64                       1138.218                      (NULL)
              21.50                         82.940                      (NULL)
              23.50                         71.410                      (NULL)

 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=   6.65
  .00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
 2.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
 4.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
 6.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
 8.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
10.00    DISCHG          .00       .01       .31      1.33      3.37      6.41     11.84     21.90     56.09    233.33
12.00    DISCHG       624.95    973.67   1090.43   1136.78   1117.52   1019.91    879.43    724.00    588.91    482.41
14.00    DISCHG       402.07    344.46    301.62    270.37    246.44    227.53    212.53    199.46    188.82    178.95
16.00    DISCHG       169.49    161.25    153.57    147.16    142.15    138.42    135.21    131.89    128.91    125.57
18.00    DISCHG       121.86    118.01    113.61    109.62    106.27    103.60    101.59    100.21     99.16     97.57
20.00    DISCHG        95.41     93.47     91.74     90.04     87.71     84.91     83.15     82.85     82.87     82.23
22.00    DISCHG        81.02     80.03     79.09     77.93     75.90     73.25     71.57     71.32     71.33     70.67
24.00    DISCHG        69.41     65.10     55.19     44.41     34.15     24.75     16.74     10.59      6.39      3.76
26.00    DISCHG         2.19      1.25       .72       .41       .22       .11       .03       .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .7463        CFS-HRS=     3203.03        ACRE-FT=     264.70

                    ***HYDROGRAPH  8  PUNCHED OUTPUT REQUESTED AT THIS POINT***


SUBROUTINE REACH     CROSS SECTION 211
           LENGTH=   3200.00     INPUT COEFFICIENT=   .9000     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=  15.300       AVERAGE ROUTING COEFF=  .9000       NUMBER OF ROUTINGS=   .26

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.69                       1132.003                      (NULL)

 TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=   6.65
```

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.23	1.06	2.83	5.61	10.41	19.26	47.11	186.81
12.00	DISCHG	522.12	882.03	1059.67	1124.57	1122.56	1045.53	916.32	764.84	624.41	510.40
14.00	DISCHG	423.18	359.60	312.88	278.58	252.73	232.50	216.47	202.90	191.61	181.54
16.00	DISCHG	171.97	163.41	155.59	148.84	143.46	139.40	136.06	132.76	129.69	126.45
18.00	DISCHG	122.83	119.02	114.77	110.67	107.15	104.30	102.12	100.57	99.43	97.99
20.00	DISCHG	95.98	93.98	92.20	90.49	88.32	85.64	83.61	82.93	82.86	82.40
22.00	DISCHG	81.34	80.29	79.34	78.23	76.44	73.95	72.01	71.39	71.33	70.85
24.00	DISCHG	69.74	66.23	57.79	47.24	36.85	27.22	18.85	12.21	7.49	4.45
26.00	DISCHG	2.60	1.50	.86	.49	.27	.14	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7462 CFS-HRS= 3202.68 ACRE-FT= 264.67

SUBROUTINE RUNOFF CROSS SECTION 8
AREA= .52 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	112.354	(RUNOFF)
16.91	8.223	(RUNOFF)
19.37	6.208	(RUNOFF)
21.57	5.447	(RUNOFF)
23.57	4.735	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .52

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.38	23.62
12.00	DISCHG	82.50	112.30	77.30	53.62	38.35	28.81	24.17	20.34	18.54	16.56
14.00	DISCHG	15.09	14.22	13.24	12.74	12.10	11.62	11.20	10.57	10.20	9.57
16.00	DISCHG	9.05	8.74	8.39	8.23	8.20	8.21	8.08	7.78	7.59	7.27
18.00	DISCHG	7.00	6.75	6.40	6.23	6.19	6.18	6.19	6.21	6.18	5.89
20.00	DISCHG	5.63	5.54	5.52	5.48	5.18	4.91	4.98	5.30	5.44	5.20
22.00	DISCHG	4.95	4.86	4.83	4.79	4.48	4.20	4.27	4.60	4.73	4.48
24.00	DISCHG	4.21	3.25	1.42	.48	.17	.05	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5206 CFS-HRS= 174.72 ACRE-FT= 14.44

SUBROUTINE DIVERT CROSS SECTION 8
INPUT HYDROGRAPH= 6 OUTPUT HYDROGRAPHS= 2,3

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 3000.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .86

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	95.262	(NULL)

19.52	6.205	(NULL)
21.80	5.353	(NULL)
23.79	4.642	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.14	3.17
12.00	DISCHG	23.01	66.87	94.72	80.41	60.47	44.31	33.19	26.61	22.12	19.46
14.00	DISCHG	17.32	15.70	14.59	13.61	12.95	12.32	11.79	11.32	10.77	10.31
16.00	DISCHG	9.75	9.24	8.86	8.52	8.32	8.24	8.21	8.09	7.86	7.65
18.00	DISCHG	7.36	7.09	6.82	6.52	6.32	6.23	6.20	6.20	6.20	6.16
20.00	DISCHG	5.95	5.72	5.60	5.54	5.47	5.24	5.02	5.03	5.23	5.35
22.00	DISCHG	5.22	5.02	4.91	4.85	4.78	4.54	4.31	4.32	4.52	4.64
24.00	DISCHG	4.51	4.21	3.37	1.94	.91	.39	.15	.06	.02	.00

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 174.22 ACRE-FT= 14.40

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= .79 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	143.153	(RUNOFF)
19.33	9.431	(RUNOFF)
21.65	8.133	(RUNOFF)
23.65	7.040	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.50	19.72
12.00	DISCHG	76.97	137.51	131.68	99.35	74.33	56.13	44.35	36.77	31.73	28.02
14.00	DISCHG	24.92	22.89	21.31	20.09	19.13	18.25	17.53	16.70	15.94	15.16
16.00	DISCHG	14.34	13.70	13.15	12.76	12.57	12.51	12.39	12.08	11.75	11.36
18.00	DISCHG	10.92	10.53	10.08	9.71	9.52	9.44	9.42	9.43	9.40	9.17
20.00	DISCHG	8.81	8.56	8.45	8.37	8.11	7.73	7.60	7.84	8.12	8.03
22.00	DISCHG	7.73	7.50	7.40	7.32	7.05	6.65	6.51	6.76	7.03	6.95
24.00	DISCHG	6.61	5.74	3.74	1.88	.88	.41	.19	.08	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5208 CFS-HRS= 265.53 ACRE-FT= 21.94

SUBROUTINE ADDHYD CROSS SECTION 109
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	227.509	(NULL)
19.32	15.627	(NULL)
21.71	13.429	(NULL)

23.72 11.636 (NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.63	22.89
12.00	DISCHG	99.98	204.39	226.40	179.76	134.80	100.44	77.54	63.38	53.85	47.48
14.00	DISCHG	42.24	38.59	35.90	33.71	32.07	30.57	29.33	28.02	26.71	25.48
16.00	DISCHG	24.09	22.94	22.01	21.28	20.89	20.75	20.59	20.17	19.61	19.00
18.00	DISCHG	18.28	17.62	16.91	16.22	15.83	15.67	15.62	15.62	15.60	15.33
20.00	DISCHG	14.76	14.28	14.05	13.91	13.58	12.97	12.62	12.86	13.35	13.39
22.00	DISCHG	12.95	12.52	12.31	12.17	11.83	11.20	10.82	11.08	11.55	11.59
24.00	DISCHG	11.11	9.94	7.11	3.82	1.78	.80	.34	.14	.05	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8625 CFS-HRS= 439.75 ACRE-FT= 36.34

SUBROUTINE DIVERT CROSS SECTION 109
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 2,4

SUBROUTINE REACH CROSS SECTION 310
LENGTH= 900.00 INPUT COEFFICIENT= .6300 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .79

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE DIVERT CROSS SECTION 310
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 410
LENGTH= 2000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 410
AREA= .43 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	8.330	(RUNOFF)
17.00	2.735	(RUNOFF)
19.50	2.209	(RUNOFF)
21.60	1.997	(RUNOFF)
23.60	1.779	(RUNOFF)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= .43		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	1.00	5.95	8.04	8.31	7.62	6.53	5.96	5.34	4.99	4.62
14.00	DISCHG	4.30	4.11	3.90	3.79	3.67	3.56	3.48	3.33	3.23	3.08
16.00	DISCHG	2.93	2.85	2.76	2.71	2.72	2.73	2.72	2.64	2.59	2.50
18.00	DISCHG	2.42	2.35	2.24	2.18	2.17	2.17	2.19	2.20	2.20	2.12
20.00	DISCHG	2.04	2.00	2.00	1.99	1.90	1.81	1.82	1.93	2.00	1.94
22.00	DISCHG	1.85	1.81	1.80	1.79	1.70	1.60	1.61	1.71	1.78	1.71
24.00	DISCHG	1.62	1.31	.66	.25	.10	.04	.01	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1336 CFS-HRS= 37.06 ACRE-FT= 3.06

SUBROUTINE ADDHYD CROSS SECTION 410
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	8.330	(NULL)
17.00	2.735	(NULL)
19.50	2.209	(NULL)
21.60	1.997	(NULL)
23.60	1.779	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= 1.22		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	1.00	5.95	8.04	8.31	7.62	6.53	5.96	5.34	4.99	4.62
14.00	DISCHG	4.30	4.11	3.90	3.79	3.67	3.56	3.48	3.33	3.23	3.08
16.00	DISCHG	2.93	2.85	2.76	2.71	2.72	2.73	2.72	2.64	2.59	2.50
18.00	DISCHG	2.42	2.35	2.24	2.18	2.17	2.17	2.19	2.20	2.20	2.12
20.00	DISCHG	2.04	2.00	2.00	1.99	1.90	1.81	1.82	1.93	2.00	1.94
22.00	DISCHG	1.85	1.81	1.80	1.79	1.70	1.60	1.61	1.71	1.78	1.71
24.00	DISCHG	1.62	1.31	.66	.25	.10	.04	.01	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0471 CFS-HRS= 37.06 ACRE-FT= 3.06

SUBROUTINE ADDHYD CROSS SECTION 411
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	227.509	(NULL)
19.32	15.627	(NULL)
21.71	13.429	(NULL)
23.72	11.636	(NULL)

TIME				HYDROGRAPH, TZERO= .00			DELTA T= .20		DRAINAGE AREA= .00		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.63	22.89
12.00	DISCHG	99.98	204.39	226.40	179.76	134.80	100.44	77.54	63.38	53.85	47.48
14.00	DISCHG	42.24	38.59	35.90	33.71	32.07	30.57	29.33	28.02	26.71	25.48
16.00	DISCHG	24.09	22.94	22.01	21.28	20.89	20.75	20.59	20.17	19.61	19.00
18.00	DISCHG	18.28	17.62	16.91	16.22	15.83	15.67	15.62	15.62	15.60	15.33
20.00	DISCHG	14.76	14.28	14.05	13.91	13.58	12.97	12.62	12.86	13.35	13.39
22.00	DISCHG	12.95	12.52	12.31	12.17	11.83	11.20	10.82	11.08	11.55	11.59
24.00	DISCHG	11.11	9.94	7.11	3.82	1.78	.80	.34	.14	.05	.01
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 439.75 ACRE-FT= 36.34

SUBROUTINE SAVMOV CROSS SECTION 411
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 410
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 510
LENGTH= 3200.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE ADDHYD CROSS SECTION 511
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	235.329	(NULL)
19.38	17.825	(NULL)
21.69	15.408	(NULL)
23.69	13.386	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.63	22.89
12.00	DISCHG	100.98	210.33	234.44	188.07	142.42	106.97	83.50	68.72	58.84	52.10
14.00	DISCHG	46.54	42.70	39.80	37.50	35.74	34.13	32.80	31.34	29.94	28.56
16.00	DISCHG	27.02	25.79	24.77	23.99	23.61	23.48	23.31	22.81	22.20	21.50
18.00	DISCHG	20.70	19.97	19.15	18.41	18.00	17.85	17.81	17.82	17.80	17.46
20.00	DISCHG	16.80	16.28	16.05	15.90	15.48	14.78	14.43	14.79	15.35	15.32

22.00	DISCHG	14.80	14.34	14.11	13.96	13.53	12.79	12.43	12.80	13.33	13.30
24.00	DISCHG	12.73	11.26	7.77	4.06	1.88	.83	.35	.14	.05	.01
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 476.81 ACRE-FT= 39.40

SUBROUTINE SAVMOV CROSS SECTION 511
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 2

SUBROUTINE DIVERT CROSS SECTION 510
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPHS= 4,6

SUBROUTINE REACH CROSS SECTION 610
LENGTH= 3400.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= .000 AVERAGE ROUTING COEFF= .0000 NUMBER OF ROUTINGS= .00

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.22

.00	DISCHG	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0000 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE RUNOFF CROSS SECTION 610
AREA= .46 INPUT RUNOFF CURVE= 62.0 TIME OF CONCENTRATION= .81

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	7.969	(RUNOFF)
19.51	2.352	(RUNOFF)
21.77	2.084	(RUNOFF)
23.75	1.848	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .46

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.51	2.42	5.28	7.29	7.96	7.56	6.99	6.40	5.91	5.48
14.00	DISCHG	5.09	4.77	4.51	4.30	4.12	3.98	3.86	3.73	3.60	3.47
16.00	DISCHG	3.33	3.20	3.08	3.00	2.95	2.94	2.92	2.89	2.84	2.77
18.00	DISCHG	2.69	2.61	2.52	2.43	2.38	2.35	2.34	2.35	2.35	2.32
20.00	DISCHG	2.26	2.21	2.17	2.15	2.11	2.04	1.99	2.00	2.06	2.08
22.00	DISCHG	2.04	1.99	1.96	1.94	1.89	1.82	1.76	1.78	1.83	1.85
24.00	DISCHG	1.80	1.63	1.27	.82	.47	.25	.14	.08	.04	.02
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1333 CFS-HRS= 39.59 ACRE-FT= 3.27

SUBROUTINE ADDHYD CROSS SECTION 610
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.83	7.969	(NULL)
19.51	2.352	(NULL)
21.77	2.084	(NULL)
23.75	1.848	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.68

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.51	2.42	5.28	7.29	7.96	7.56	6.99	6.40	5.91	5.48
14.00	DISCHG	5.09	4.77	4.51	4.30	4.12	3.98	3.86	3.73	3.60	3.47
16.00	DISCHG	3.33	3.20	3.08	3.00	2.95	2.94	2.92	2.89	2.84	2.77
18.00	DISCHG	2.69	2.61	2.52	2.43	2.38	2.35	2.34	2.35	2.35	2.32
20.00	DISCHG	2.26	2.21	2.17	2.15	2.11	2.04	1.99	2.00	2.06	2.08
22.00	DISCHG	2.04	1.99	1.96	1.94	1.89	1.82	1.76	1.78	1.83	1.85
24.00	DISCHG	1.80	1.63	1.27	.82	.47	.25	.14	.08	.04	.02
26.00	DISCHG	.01	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0365 CFS-HRS= 39.59 ACRE-FT= 3.27

SUBROUTINE ADDHYD CROSS SECTION 611
INPUT HYDROGRAPHS= 2,4 OUTPUT HYDROGRAPH= 5

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	235.329	(NULL)
19.38	17.825	(NULL)
21.69	15.408	(NULL)
23.69	13.386	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .00

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	1.63	22.89
12.00	DISCHG	100.98	210.33	234.44	188.07	142.42	106.97	83.50	68.72	58.84	52.10
14.00	DISCHG	46.54	42.70	39.80	37.50	35.74	34.13	32.80	31.34	29.94	28.56
16.00	DISCHG	27.02	25.79	24.77	23.99	23.61	23.48	23.31	22.81	22.20	21.50
18.00	DISCHG	20.70	19.97	19.15	18.41	18.00	17.85	17.81	17.82	17.80	17.46
20.00	DISCHG	16.80	16.28	16.05	15.90	15.48	14.78	14.43	14.79	15.35	15.32
22.00	DISCHG	14.80	14.34	14.11	13.95	13.53	12.79	12.43	12.80	13.33	13.30
24.00	DISCHG	12.73	11.26	7.77	4.06	1.88	.83	.35	.14	.05	.01
26.00	DISCHG	.00									

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= 476.81 ACRE-FT= 39.40

SUBROUTINE SAVMOV CROSS SECTION 611
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

```
SUBROUTINE DIVERT    CROSS SECTION 610
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPHS= 4,6


SUBROUTINE REACH     CROSS SECTION 710
           LENGTH=    700.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=    .000       AVERAGE ROUTING COEFF=  .0000       NUMBER OF ROUTINGS=   .00

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=   1.68
    .00    DISCHG          .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0000        CFS-HRS=          .00        ACRE-FT=        .00


SUBROUTINE ADDHYD    CROSS SECTION 711
           INPUT HYDROGRAPHS= 2,4     OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.38                        240.257                       (NULL)
              19.39                         20.172                       (NULL)
              21.70                         17.476                       (NULL)
              23.70                         15.230                       (NULL)

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=    .00
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   8.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
  10.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00       1.63      22.89
  12.00    DISCHG       101.50     212.76     239.72     195.36     150.38     114.54      90.49      75.12      64.75      57.58
  14.00    DISCHG        51.63      47.48      44.31      41.79      39.87      38.11      36.66      35.07      33.54      32.02
  16.00    DISCHG        30.35      28.99      27.85      26.99      26.56      26.42      26.24      25.70      25.03      24.27
  18.00    DISCHG        23.39      22.58      21.67      20.84      20.38      20.20      20.15      20.17      20.15      19.78
  20.00    DISCHG        19.06      18.49      18.22      18.05      17.58      16.82      16.42      16.80      17.41      17.40
  22.00    DISCHG        16.84      16.33      16.07      15.90      15.42      14.61      14.19      14.57      15.16      15.15
  24.00    DISCHG        14.53      12.89       9.04       4.89       2.35       1.08        .50        .22        .10        .03
  26.00    DISCHG          .01        .01        .00

     TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0        CFS-HRS=      516.39        ACRE-FT=      42.67


SUBROUTINE SAVMOV    CROSS SECTION 711
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 2


SUBROUTINE SAVMOV    CROSS SECTION 710
           INPUT HYDROGRAPH= 5     OUTPUT HYDROGRAPH= 4


SUBROUTINE RUNOFF    CROSS SECTION 209
           AREA=    .04     INPUT RUNOFF CURVE=  76.0     TIME OF CONCENTRATION=   .28

           PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
              12.05                         10.220                      (RUNOFF)
              16.92                           .535                      (RUNOFF)
```

19.33	.479	(RUNOFF)
20.32	.425	(RUNOFF)
21.49	.426	(RUNOFF)
22.31	.372	(RUNOFF)
23.48	.371	(RUNOFF)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .04

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.20	3.91
12.00	DISCHG	9.95	8.05	4.12	3.26	2.15	1.87	1.61	1.41	1.35	1.16
14.00	DISCHG	1.11	1.04	.98	.96	.89	.88	.83	.79	.77	.70
16.00	DISCHG	.68	.65	.63	.63	.63	.63	.61	.59	.57	.54
18.00	DISCHG	.53	.50	.48	.47	.47	.48	.48	.48	.47	.43
20.00	DISCHG	.42	.42	.42	.42	.38	.37	.40	.42	.42	.38
22.00	DISCHG	.37	.37	.37	.36	.32	.31	.34	.37	.36	.33
24.00	DISCHG	.32	.16	.03	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5183 CFS-HRS= 13.38 ACRE-FT= 1.11

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 3,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	10.220	(NULL)
16.92	.635	(NULL)
19.33	.479	(NULL)
20.32	.425	(NULL)
21.49	.426	(NULL)
22.31	.372	(NULL)
23.48	.371	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.20	3.91
12.00	DISCHG	9.95	8.05	4.12	3.26	2.15	1.87	1.61	1.41	1.35	1.16
14.00	DISCHG	1.11	1.04	.98	.96	.89	.88	.83	.79	.77	.70
16.00	DISCHG	.68	.65	.63	.63	.63	.63	.61	.59	.57	.54
18.00	DISCHG	.53	.50	.48	.47	.47	.48	.48	.48	.47	.43
20.00	DISCHG	.42	.42	.42	.42	.38	.37	.40	.42	.42	.38
22.00	DISCHG	.37	.37	.37	.36	.32	.31	.34	.37	.36	.33
24.00	DISCHG	.32	.16	.03	.01	.00					

SUBROUTINE REACH CROSS SECTION 208
LENGTH= 5800.00 INPUT COEFFICIENT= .4700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.508 AVERAGE ROUTING COEFF= .4700 NUMBER OF ROUTINGS= 2.51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.04	4.787	(NULL)
22.06	.405	(NULL)
24.25	.350	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .56

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12.00	DISCHG	.01	.31	1.40	3.07	4.33	4.77	4.60	4.09	3.49	2.92
14.00	DISCHG	2.45	2.07	1.77	1.55	1.37	1.24	1.14	1.06	1.00	.94
16.00	DISCHG	.89	.85	.81	.77	.73	.70	.68	.66	.65	.64
18.00	DISCHG	.62	.61	.59	.57	.55	.53	.51	.50	.49	.49
20.00	DISCHG	.48	.48	.47	.46	.45	.44	.43	.42	.41	.40
22.00	DISCHG	.40	.40	.40	.39	.39	.38	.37	.36	.35	.35
24.00	DISCHG	.35	.35	.35	.33	.29	.23	.16	.11	.07	.05
26.00	DISCHG	.03	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0371 CFS-HRS= 13.40 ACRE-FT= 1.11

SUBROUTINE RUNOFF CROSS SECTION 208
AREA= .28 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	38.235	(RUNOFF)
21.80	2.837	(RUNOFF)
23.77	2.451	(RUNOFF)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .28

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.37	3.51
12.00	DISCHG	12.85	26.93	37.03	37.89	33.10	26.68	21.56	17.72	14.80	12.66
14.00	DISCHG	11.01	9.79	8.85	8.11	7.52	7.03	6.65	6.33	6.03	5.74
16.00	DISCHG	5.45	5.19	4.95	4.76	4.62	4.54	4.47	4.39	4.29	4.18
18.00	DISCHG	4.04	3.91	3.76	3.62	3.51	3.43	3.39	3.37	3.35	3.31
20.00	DISCHG	3.24	3.15	3.08	3.02	2.96	2.87	2.79	2.77	2.81	2.84
22.00	DISCHG	2.81	2.74	2.68	2.64	2.58	2.49	2.41	2.39	2.43	2.45
24.00	DISCHG	2.40	2.23	1.87	1.36	.88	.54	.32	.19	.12	.07
26.00	DISCHG	.04	.02	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5201 CFS-HRS= 93.98 ACRE-FT= 7.77

SUBROUTINE ADDHYD CROSS SECTION 209
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	40.989	(NULL)
21.79	3.239	(NULL)

23.76 2.799 (NULL)

TIME		HYDROGRAPH, TZERO= .00					DELTA T= .20		DRAINAGE AREA= .84		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.37	3.51
12.00	DISCHG	12.86	27.24	38.43	40.97	37.43	31.45	26.16	21.81	18.29	15.59
14.00	DISCHG	13.46	11.86	10.62	9.66	8.89	8.27	7.79	7.39	7.03	6.68
16.00	DISCHG	6.35	6.04	5.76	5.53	5.36	5.24	5.15	5.05	4.94	4.81
18.00	DISCHG	4.66	4.51	4.35	4.19	4.06	3.96	3.90	3.87	3.84	3.80
20.00	DISCHG	3.72	3.62	3.54	3.48	3.41	3.31	3.22	3.19	3.22	3.24
22.00	DISCHG	3.21	3.15	3.09	3.03	2.97	2.87	2.79	2.76	2.78	2.80
24.00	DISCHG	2.75	2.58	2.21	1.69	1.17	.76	.49	.30	.19	.12
26.00	DISCHG	.07	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1981 CFS-HRS= 107.38 ACRE-FT= 8.87

SUBROUTINE SAVMOV CROSS SECTION 208
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 211
INPUT HYDROGRAPHS= 1,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.68	1172.144	(NULL)

TIME		HYDROGRAPH, TZERO= .00					DELTA T= .20		DRAINAGE AREA= 7.49		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.01	.23	1.06	2.83	5.61	10.41	19.26	47.49	190.32
12.00	DISCHG	534.99	909.27	1098.10	1165.54	1159.99	1076.97	942.48	786.65	642.70	525.99
14.00	DISCHG	436.64	371.46	323.50	288.24	261.62	240.77	224.27	210.29	198.64	188.23
16.00	DISCHG	178.32	169.45	161.35	154.37	148.82	144.63	141.20	137.82	134.64	131.26
18.00	DISCHG	127.50	123.53	119.12	114.86	111.21	108.27	106.02	104.44	103.27	101.79
20.00	DISCHG	99.70	97.60	95.74	93.96	91.73	88.95	86.83	86.12	86.08	85.64
22.00	DISCHG	84.55	83.44	82.42	81.27	79.41	76.82	74.80	74.14	74.11	73.64
24.00	DISCHG	72.49	68.81	60.01	48.93	38.02	27.98	19.33	12.51	7.68	4.57
26.00	DISCHG	2.67	1.54	.88	.50	.27	.14	.05	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6848 CFS-HRS= 3310.06 ACRE-FT= 273.54

SUBROUTINE REACH CROSS SECTION 712
LENGTH= 6300.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.02	1145.090	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.49

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.12	.64	1.87	4.03	7.70	14.32	32.69
12.00	DISCHG	118.11	351.19	682.23	948.79	1094.80	1144.55	1112.86	1016.28	880.45	735.94
14.00	DISCHG	605.99	500.08	419.04	358.73	314.20	281.06	255.76	236.04	220.02	206.73
16.00	DISCHG	195.30	184.89	175.40	166.76	159.11	152.70	147.64	143.62	140.06	136.74
18.00	DISCHG	133.42	129.86	126.04	121.88	117.61	113.67	110.31	107.62	105.61	104.13
20.00	DISCHG	102.72	100.94	98.93	96.97	95.13	93.10	90.64	88.28	86.84	86.28
22.00	DISCHG	85.90	85.14	84.13	83.09	81.99	80.49	78.34	76.16	74.81	74.30
24.00	DISCHG	73.91	73.11	70.74	64.72	55.46	44.94	34.58	25.18	17.29	11.23
26.00	DISCHG	6.98	4.20	2.47	1.44	.82	.46	.25	.12	.04	.01
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6847 CFS-HRS= 3309.68 ACRE-FT= 273.51

SUBROUTINE ADDHYD CROSS SECTION 712
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.02	1145.090	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.17

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.12	.64	1.87	4.03	7.70	14.32	32.69
12.00	DISCHG	118.11	351.19	682.23	948.79	1094.80	1144.55	1112.86	1016.28	880.45	735.94
14.00	DISCHG	605.99	500.08	419.04	358.73	314.20	281.06	255.76	236.04	220.02	206.73
16.00	DISCHG	195.30	184.89	175.40	166.76	159.11	152.70	147.64	143.62	140.06	136.74
18.00	DISCHG	133.42	129.86	126.04	121.88	117.61	113.67	110.31	107.62	105.61	104.13
20.00	DISCHG	102.72	100.94	98.93	96.97	95.13	93.10	90.64	88.28	86.84	86.28
22.00	DISCHG	85.90	85.14	84.13	83.09	81.99	80.49	78.34	76.16	74.81	74.30
24.00	DISCHG	73.91	73.11	70.74	64.72	55.46	44.94	34.58	25.18	17.29	11.23
26.00	DISCHG	6.98	4.20	2.47	1.44	.82	.46	.25	.12	.04	.01
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5593 CFS-HRS= 3309.68 ACRE-FT= 273.51

ENDCMP

SUMMARY TABLE 1

ALT	STORM	ID	DA SQ-MI.	RAIN TBLE	AMC	DELTA-T HRS.	TZERO HRS.	PRECIP IN.	PRECIP DURATION	PEAK-Q CFS	PEAK-TIME	PEAK-ELEV	RUNOFF IN.	CSM
3	1	1	3.25	2	2	.20	.00	3.70	24.00	1990.44	12.41	.00	1.87	612.44
3	1	2	.34	2	2	.20	.00	3.70	24.00	270.92	12.03	.00	1.51	796.82
3	1	102	3.59	2	2	.20	.00	3.70	24.00	1975.18	12.56	.00	1.84	550.19
3	1	3	.62	2	2	.20	.00	3.70	24.00	621.49	12.00	.00	1.80	1002.41
3	1	103	4.21	2	2	.20	.00	3.70	24.00	2062.08	12.61	.00	1.83	489.81
3	1	4	.66	2	2	.20	.00	3.70	24.00	634.87	12.11	.00	2.03	961.93
3	1	104	4.87	2	2	.20	.00	3.70	24.00	2167.52	12.68	.00	1.86	445.08
3	1	6	1.10	2	2	.20	.00	3.70	24.00	913.08	12.20	.00	1.95	830.08
3	1	5	.68	2	2	.20	.00	3.70	24.00	848.94	11.96	.00	2.00	1248.44
3	1	105	1.78	2	2	.20	.00	3.70	24.00	1184.49	12.05	.00	1.97	665.44
3	1	205	6.65	2	2	.20	.00	3.70	24.00	3101.15	12.55	.00	1.89	466.34
3	1	8	.52	2	2	.20	.00	3.70	24.00	363.38	12.14	.00	1.51	698.81
3	1	9	.79	2	2	.20	.00	3.70	24.00	481.99	12.24	.00	1.51	610.12
3	1	109	.79	2	2	.20	.00	3.70	24.00	772.99	12.29	.00	2.51	978.47
3	1	310	.79	2	2	.20	.00	3.70	24.00	330.31	12.37	.00	.35	418.11
3	1	410	.43	2	2	.20	.00	3.70	24.00	112.86	12.23	.00	.71	262.47
3	1	411	.00	2	2	.20	.00	3.70	24.00	702.41	12.36	.00	.00	.00
3	1	510	1.22	2	2	.20	.00	3.70	24.00	.56	12.63	.00	.00	.46
3	1	511	.00	2	2	.20	.00	3.70	24.00	796.91	12.34	.00	.00	.00
3	1	610	.46	2	2	.20	.00	3.70	24.00	88.14	12.47	.00	.71	191.61
3	1	611	.00	2	2	.20	.00	3.70	24.00	797.16	12.34	.00	.00	.00
3	1	710	1.68	2	2	.20	.00	3.70	24.00	.00	.00	.00	.00	.00
3	1	711	.00	2	2	.20	.00	3.70	24.00	881.16	12.36	.00	.00	.00
3	1	209	.04	2	2	.20	.00	3.70	24.00	33.26	12.01	.00	1.51	831.61
3	1	208	.28	2	2	.20	.00	3.70	24.00	130.89	12.46	.00	1.51	467.45
3	1	208	.84	2	2	.20	.00	3.70	24.00	139.83	12.49	.00	.58	166.46
3	1	211	7.49	2	2	.20	.00	3.70	24.00	3219.69	12.59	.00	1.74	429.87
3	1	712	9.17	2	2	.20	.00	3.70	24.00	3138.01	12.94	.00	1.42	342.20
3	2	1	3.25	2	2	.20	.00	3.25	24.00	1588.55	12.41	.00	1.51	488.79
3	2	2	.34	2	2	.20	.00	3.25	24.00	209.23	12.04	.00	1.19	615.39
3	2	102	3.59	2	2	.20	.00	3.25	24.00	1575.95	12.57	.00	1.48	438.98
3	2	3	.62	2	2	.20	.00	3.25	24.00	495.09	12.01	.00	1.44	798.54
3	2	103	4.21	2	2	.20	.00	3.25	24.00	1645.48	12.62	.00	1.47	390.85
3	2	4	.66	2	2	.20	.00	3.25	24.00	515.24	12.12	.00	1.65	780.66
3	2	104	4.87	2	2	.20	.00	3.25	24.00	1743.21	12.71	.00	1.49	357.95
3	2	6	1.10	2	2	.20	.00	3.25	24.00	735.09	12.21	.00	1.58	668.26
3	2	5	.68	2	2	.20	.00	3.25	24.00	692.00	11.96	.00	1.63	1017.65
3	2	105	1.78	2	2	.20	.00	3.25	24.00	953.80	12.05	.00	1.60	535.84
3	2	205	6.65	2	2	.20	.00	3.25	24.00	2475.12	12.56	.00	1.52	372.20
3	2	8	.52	2	2	.20	.00	3.25	24.00	281.28	12.15	.00	1.19	540.92
3	2	9	.79	2	2	.20	.00	3.25	24.00	370.77	12.25	.00	1.19	469.33
3	2	109	.79	2	2	.20	.00	3.25	24.00	583.80	12.30	.00	1.97	738.98
3	2	310	.79	2	2	.20	.00	3.25	24.00	164.47	12.37	.00	.14	208.19
3	2	410	.43	2	2	.20	.00	3.25	24.00	71.89	12.25	.00	.50	167.20
3	2	411	.00	2	2	.20	.00	3.25	24.00	564.48	12.37	.00	.00	.00
3	2	510	1.22	2	2	.20	.00	3.25	24.00	.00	.00	.00	.00	.00
3	2	511	.00	2	2	.20	.00	3.25	24.00	626.11	12.35	.00	.00	.00
3	2	610	.46	2	2	.20	.00	3.25	24.00	56.26	12.50	.00	.50	122.31
3	2	611	.00	2	2	.20	.00	3.25	24.00	626.11	12.35	.00	.00	.00
3	2	710	1.68	2	2	.20	.00	3.25	24.00	.00	.00	.00	.00	.00
3	2	711	.00	2	2	.20	.00	3.25	24.00	678.67	12.37	.00	.00	.00
3	2	209	.04	2	2	.20	.00	3.25	24.00	25.73	12.02	.00	1.19	643.37
3	2	208	.28	2	2	.20	.00	3.25	24.00	100.49	12.47	.00	1.19	358.89

3	2	209	.84	2	2	.20	.00	3.25	24.00	106.12	12.50	.00	.45	126.33
3	2	211	7.49	2	2	.20	.00	3.25	24.00	2565.66	12.61	.00	1.40	342.54
3	2	712	9.17	2	2	.20	.00	3.25	24.00	2501.98	12.96	.00	1.15	272.84
3	3	1	3.25	2	2	.20	.00	2.80	24.00	1203.54	12.43	.00	1.16	370.32
3	3	2	.34	2	2	.20	.00	2.80	24.00	151.39	12.05	.00	.88	445.25
3	3	102	3.59	2	2	.20	.00	2.80	24.00	1193.66	12.58	.00	1.13	332.50
3	3	3	.62	2	2	.20	.00	2.80	24.00	374.13	12.02	.00	1.10	603.43
3	3	103	4.21	2	2	.20	.00	2.80	24.00	1246.46	12.64	.00	1.13	296.07
3	3	4	.66	2	2	.20	.00	2.80	24.00	399.43	12.12	.00	1.29	605.20
3	3	104	4.87	2	2	.20	.00	2.80	24.00	1322.75	12.72	.00	1.15	271.61
3	3	6	1.10	2	2	.20	.00	2.80	24.00	563.51	12.21	.00	1.22	512.28
3	3	5	.68	2	2	.20	.00	2.80	24.00	539.42	11.97	.00	1.27	793.27
3	3	105	1.78	2	2	.20	.00	2.80	24.00	731.22	12.05	.00	1.24	410.80
3	3	205	6.65	2	2	.20	.00	2.80	24.00	1876.07	12.59	.00	1.18	282.12
3	3	8	.52	2	2	.20	.00	2.80	24.00	204.22	12.17	.00	.88	392.74
3	3	9	.79	2	2	.20	.00	2.80	24.00	266.60	12.26	.00	.88	337.47
3	3	109	.79	2	2	.20	.00	2.80	24.00	420.29	12.32	.00	1.46	532.01
3	3	310	.79	2	2	.20	.00	2.80	24.00	8.31	12.43	.00	.00	10.52
3	3	410	.43	2	2	.20	.00	2.80	24.00	37.94	12.28	.00	.32	88.24
3	3	411	.00	2	2	.20	.00	2.80	24.00	416.66	12.32	.00	.00	.00
3	3	510	1.22	2	2	.20	.00	2.80	24.00	.00	.00	.00	.00	.00
3	3	511	.00	2	2	.20	.00	2.80	24.00	451.77	12.31	.00	.00	.00
3	3	610	.46	2	2	.20	.00	2.80	24.00	30.24	12.58	.00	.32	65.74
3	3	611	.00	2	2	.20	.00	2.80	24.00	451.77	12.31	.00	.00	.00
3	3	710	1.68	2	2	.20	.00	2.80	24.00	.00	.00	.00	.00	.00
3	3	711	.00	2	2	.20	.00	2.80	24.00	476.76	12.33	.00	.00	.00
3	3	209	.04	2	2	.20	.00	2.80	24.00	18.66	12.03	.00	.88	466.59
3	3	208	.28	2	2	.20	.00	2.80	24.00	72.08	12.48	.00	.88	257.45
3	3	208	.84	2	2	.20	.00	2.80	24.00	76.12	12.53	.00	.34	90.62
3	3	211	7.49	2	2	.20	.00	2.80	24.00	1940.51	12.63	.00	1.08	259.08
3	3	712	9.17	2	2	.20	.00	2.80	24.00	1893.65	12.98	.00	.88	206.50
3	4	1	3.25	2	2	.20	.00	2.20	24.00	728.44	12.45	.00	.73	224.14
3	4	2	.34	2	2	.20	.00	2.20	24.00	82.52	12.08	.00	.52	242.71
3	4	102	3.59	2	2	.20	.00	2.20	24.00	722.25	12.61	.00	.71	201.18
3	4	3	.62	2	2	.20	.00	2.20	24.00	225.12	12.03	.00	.69	363.10
3	4	103	4.21	2	2	.20	.00	2.20	24.00	754.23	12.66	.00	.71	179.15
3	4	4	.66	2	2	.20	.00	2.20	24.00	254.05	12.14	.00	.84	384.92
3	4	104	4.87	2	2	.20	.00	2.20	24.00	803.76	12.76	.00	.73	165.04
3	4	6	1.10	2	2	.20	.00	2.20	24.00	349.62	12.23	.00	.78	317.84
3	4	5	.68	2	2	.20	.00	2.20	24.00	346.64	11.98	.00	.82	509.77
3	4	105	1.78	2	2	.20	.00	2.20	24.00	453.22	12.05	.00	.80	254.62
3	4	205	6.65	2	2	.20	.00	2.20	24.00	1138.22	12.64	.00	.75	171.16
3	4	8	.52	2	2	.20	.00	2.20	24.00	112.35	12.19	.00	.52	216.06
3	4	9	.79	2	2	.20	.00	2.20	24.00	143.15	12.28	.00	.52	181.21
3	4	109	.79	2	2	.20	.00	2.20	24.00	227.51	12.36	.00	.86	287.99
3	4	310	.79	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
3	4	410	.43	2	2	.20	.00	2.20	24.00	8.33	12.55	.00	.13	19.37
3	4	411	.00	2	2	.20	.00	2.20	24.00	227.51	12.36	.00	.00	.00
3	4	510	1.22	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
3	4	511	.00	2	2	.20	.00	2.20	24.00	235.33	12.37	.00	.00	.00
3	4	610	.46	2	2	.20	.00	2.20	24.00	7.97	12.83	.00	.13	17.32
3	4	611	.00	2	2	.20	.00	2.20	24.00	235.33	12.37	.00	.00	.00
3	4	710	1.68	2	2	.20	.00	2.20	24.00	.00	.00	.00	.00	.00
3	4	711	.00	2	2	.20	.00	2.20	24.00	240.26	12.38	.00	.00	.00
3	4	209	.04	2	2	.20	.00	2.20	24.00	10.22	12.05	.00	.52	255.50
3	4	208	.28	2	2	.20	.00	2.20	24.00	38.23	12.53	.00	.52	136.55
3	4	208	.84	2	2	.20	.00	2.20	24.00	40.99	12.58	.00	.20	48.80

3	4	211	7.49	2	2	.20	.00	2.20	24.00	1172.14	12.68	.00	.58	156.49
3	4	712	9.17	2	2	.20	.00	2.20	24.00	1145.09	13.02	.00	.56	124.87

WITH DIVERSION

SUMMARY TABLE 3

		DISCHARGE, CFS									
		Q100	Q50	Q25	Q10	Q5	Q6	Q7	Q8	Q9	Q10
Design Subarea No. 1	XSEC/STRUC NO. 1 ALTERNATE 3	1990.44	1588.55	1203.54	728.44	.00	.00	.00	.00	.00	.00
Design Subarea No. 2	XSEC/STRUC NO. 2 ALTERNATE 3	270.92	209.23	151.39	82.52	.00	.00	.00	.00	.00	.00
Design Subarea No. 3	XSEC/STRUC NO. 3 ALTERNATE 3	621.49	495.09	374.13	225.12	.00	.00	.00	.00	.00	.00
Design Subarea No. 4	XSEC/STRUC NO. 4 ALTERNATE 3	634.87	515.24	399.43	254.05	.00	.00	.00	.00	.00	.00
Subarea No. 5	XSEC/STRUC NO. 5 ALTERNATE 3	848.94	692.00	539.42	346.64	.00	.00	.00	.00	.00	.00
Subarea No. 6	XSEC/STRUC NO. 6 ALTERNATE 3	913.08	735.09	563.51	349.62	.00	.00	.00	.00	.00	.00
Subarea No. 8A	XSEC/STRUC NO. 8 ALTERNATE 3	363.38	281.28	204.22	112.35	.00	.00	.00	.00	.00	.00
Subarea No. 9A	XSEC/STRUC NO. 9 ALTERNATE 3	491.99	370.77	266.60	143.15	.00	.00	.00	.00	.00	.00
Subareas 1+2	XSEC/STRUC NO.102 ALTERNATE 3	1975.18	1575.95	1193.66	722.25	.00	.00	.00	.00	.00	.00
Subareas 1+2+3	XSEC/STRUC NO.103 ALTERNATE 3	2062.08	1645.48	1246.46	754.23	.00	.00	.00	.00	.00	.00
Subareas 1+2+3+4	XSEC/STRUC NO.104 ALTERNATE 3	2167.52	1743.21	1322.75	803.76	.00	.00	.00	.00	.00	.00
Subarea 5+6	XSEC/STRUC NO.105 ALTERNATE 3	1184.49	953.80	731.22	453.22	.00	.00	.00	.00	.00	.00
	REACH 205 →	1091.93	877.98	671.79	414.74						
Subareas 8A+9A	XSEC/STRUC NO.109 ALTERNATE 3	772.99	583.80	420.29	227.51	.00	.00	.00	.00	.00	.00
Subareas 1+2+3+4+5+6	XSEC/STRUC NO.205 ALTERNATE 3	3101.15	2475.12	1876.07	1138.22	.00	.00	.00	.00	.00	.00
Subareas 8B+9B	XSEC/STRUC NO.208 ALTERNATE 3	139.83	106.12	76.12	40.99	.00	.00	.00	.00	.00	.00
Subarea 9B	XSEC/STRUC NO.209 ALTERNATE 3	33.26	25.73	18.66	10.22	.00	.00	.00	.00	.00	.00
Subareas 1+2+3+4+5+6+8B+9B	XSEC/STRUC NO.211 ALTERNATE 3	3213.39	2565.66	1940.51	1172.14	.00	.00	.00	.00	.00	.00

USE FOR INLET DESIGN FOR NEW DIVERSION (Subareas 5+6)

USE For Inlet Design @ Canal and/or Existing Lower Diversion)

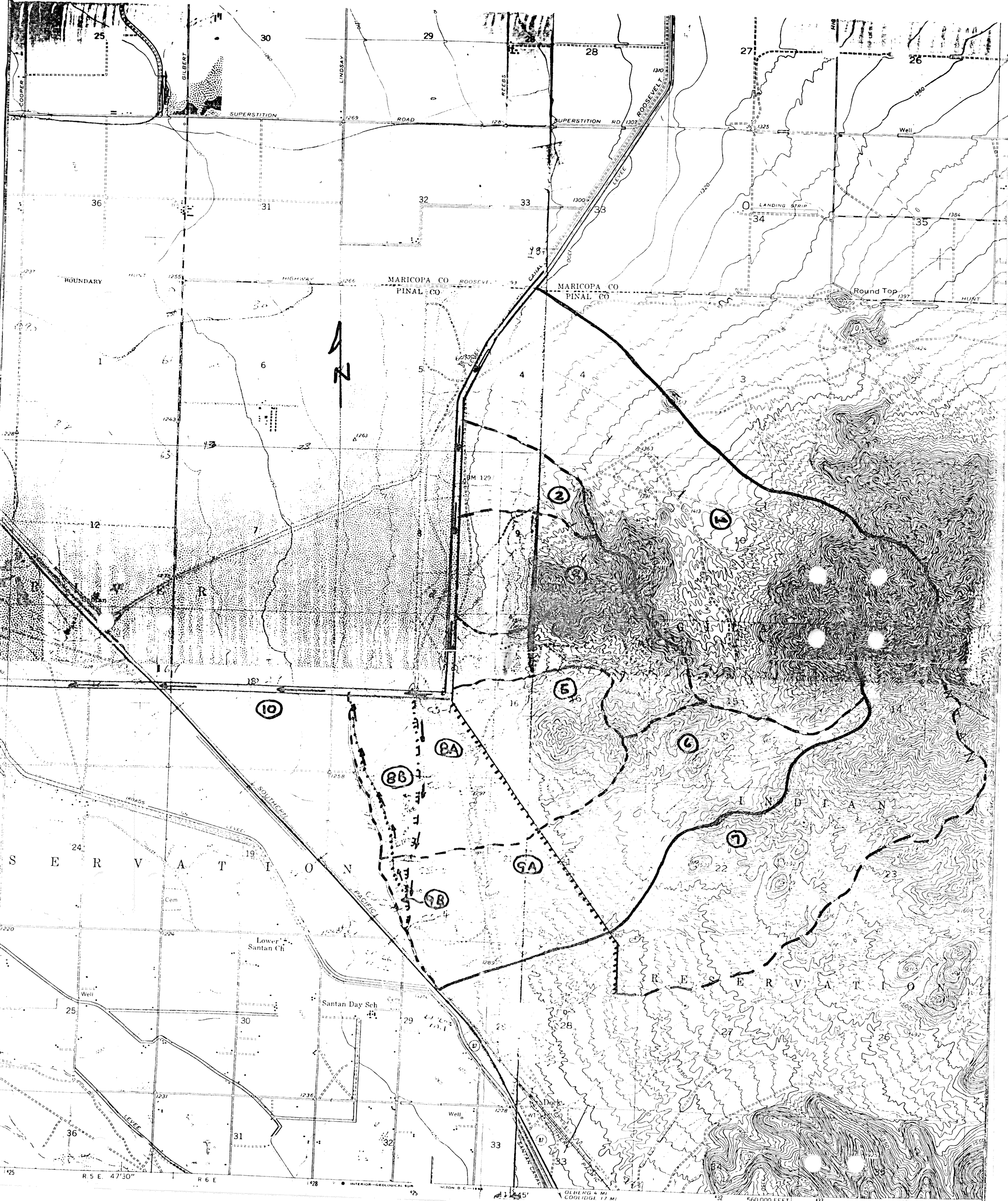
88

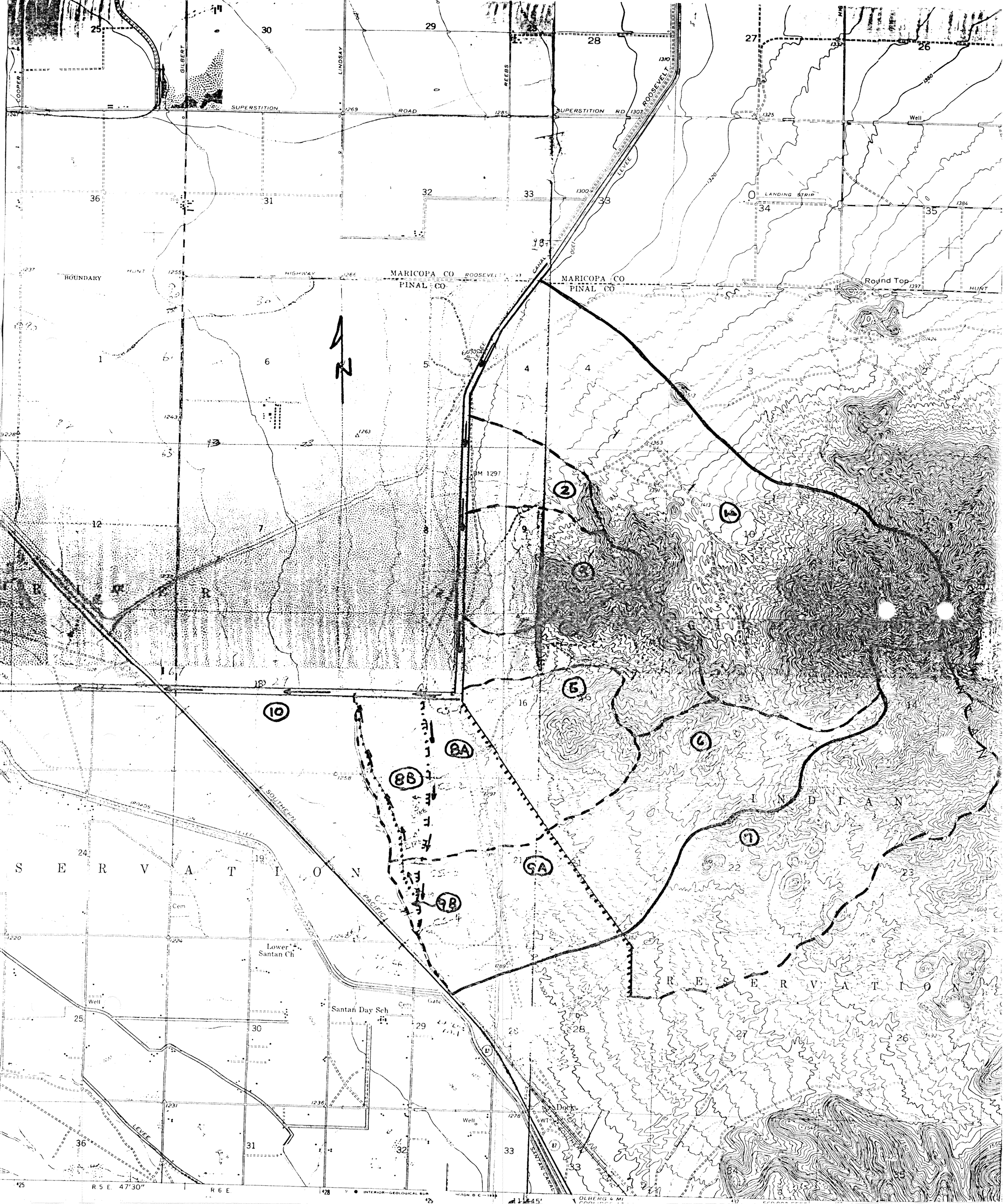
XSEC/STRUC NO.310 ALTERNATE 3	330.31	164.47	8.31	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.410 ALTERNATE 3	112.86	71.89	37.94	8.33	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.411 ALTERNATE 3	702.41	564.48	416.66	227.51	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.510 ALTERNATE 3	.56	.00	.00	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.511 ALTERNATE 3	796.91	626.11	451.77	235.33	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.610 ALTERNATE 3	88.14	56.26	30.24	7.97	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.611 ALTERNATE 3	797.16	626.11	451.77	235.33	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.710	(Note, with NEW DIVERSION installed, there is NO FIN Alng R.R @ the RWCD F/I/way)									
XSEC/STRUC NO.711 ALTERNATE 3	881.16	678.67	476.76	240.26	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.712 ALTERNATE 3	3138.01	2501.98	1893.65	1145.09	.00	.00	.00	.00	.00	.00

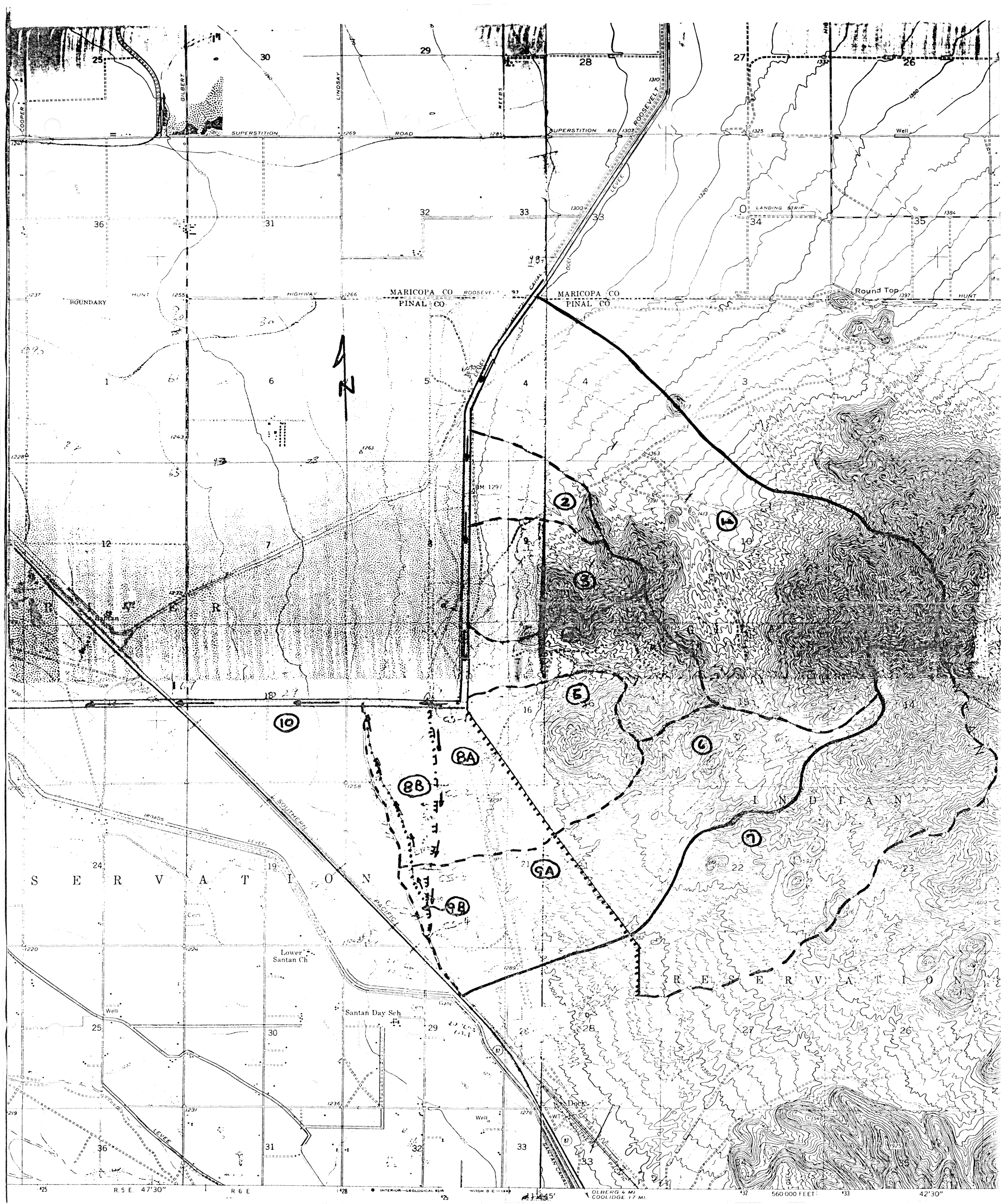
ENDJOB CARD ENCOUNTERED. END OF JOB.

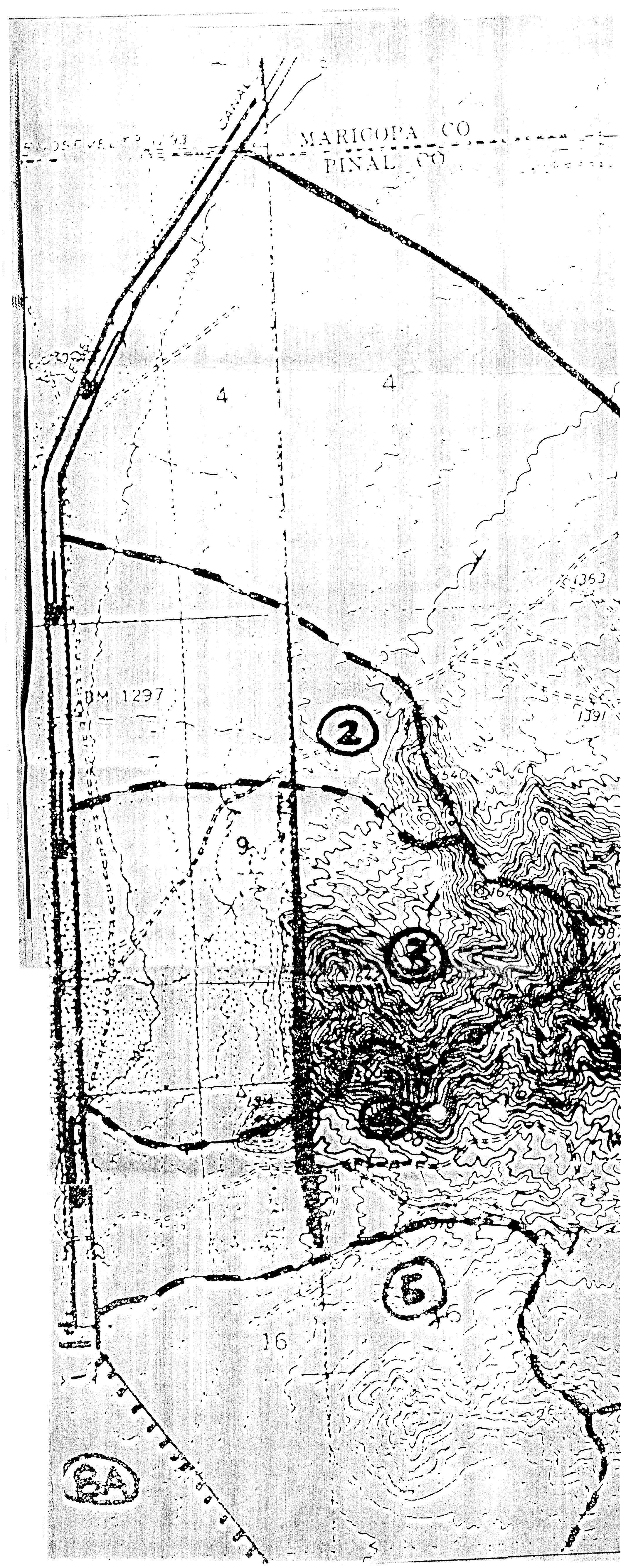
```
FILE  = (DES/TR20.NWDV,,ECOS)

JOB        R20       NOECON    FULLPRINT                                          A071
TITLE        03/15/82INLET HYD W/NEW DIV IN SECT 16,21,28,T3S,R6E                B072
 6 RUNOFF 1 001        6 3.25        81.         0.90        1 1   1   1        1089
 6 REACH  3 102   6    5 3000.       0.75                                       2089
 6 RUNOFF 1 002        6 0.34        76.         0.31        1 1   1   1        3089
 6 ADDHYD 4 102   5 6 7                                      1 1   1   1        4089
 6 REACH  3 103   7    5 2000.       0.75                                       5089
 6 RUNOFF 1 003        6 0.62        80.         0.28        1 1   1   1        6089
 6 ADDHYD 4 103   5 6 7                                      1 1   1   1        7089
 6 REACH  3 104   7    5 2800.       0.75                                       8089
 6 RUNOFF 1 004        6 0.66        83.         0.44        1 1   1   1        9089
 6 ADDHYD 4 104   5 6 7                                      1 1   1   1       10089
 6 REACH  3 205   7    1 2200.       0.75                    1 1   1           11089
 6 RUNOFF 1 006        6 1.10        82.         0.58        1 1   1   1       14089
 6 REACH  3 105   6    5 4200.       0.75                                      16089
 6 RUNOFF 1 005        6 0.68        83.         0.20        1 1   1   1       17089
 6 ADDHYD 4 105   5 6 7                                      1 1   1   1       18089
 6 REACH  3 205   7    5 3000.       0.75                    1 1       1       19089
 6 ADDHYD 4 205   5 1 7                                      1 1       1 1     20089
 6 REACH  3 211   7    1 3200.       0.90                    1 1   1           21089
 6 RUNOFF 1 008        6 0.52        76.         0.45        1 1   1   1       22089
 6 DIVERT 6 008   6 2 3 2000.                                                   23089
 6 REACH  3 109   2    5 3000.       0.65                    1 1   1           24089
 6 RUNOFF 1 009        6 0.79        76.         0.63        1 1   1   1       25089
 6 ADDHYD 4 109   5 6 7                                      1 1   1   1       26089
 6 DIVERT 6 109   7 2 4 400.         0.0                                       27089
 6 REACH  3 310   4    5 900.        0.63                    1 1   1   1      27A089
 6 DIVERT 6 310   5 4 6 300.         0.0                                       28089
 6 REACH  3 410   6    5 2000.       0.45                    1     1           29089
 6 RUNOFF 1 410        6 0.43        62.         0.50        1 1   1   1       30089
 6 ADDHYD 4 410   5 6 7                                      1 1   1           31089
 6 ADDHYD 4 411   2 4 5                                      1 1       1       32089
 6 SAVMOV 5 411   5    2                                                      32A089
 6 DIVERT 6 410   7 4 6 110.         0.0                                      32B089
 6 REACH  3 510   6    5 3200.       0.45                    1 1   1   1       33089
 6 ADDHYD 4 511   2 4 7                                      1 1       1       35089
 6 SAVMOV 5 511   7    2                                                       36089
 6 DIVERT 6 510   5 4 6 120.         0.0                                       37089
 6 REACH  3 610   6    5 3400.       0.45                    1 1   1           38089
 6 RUNOFF 1 610        6 0.46        62.         0.81        1 1   1   1       39089
 6 ADDHYD 4 610   5 6 7                                      1 1   1           40089
 6 ADDHYD 4 611   2 4 5                                      1 1       1       41089
 6 SAVMOV 5 611   5    2                                                      41A089
 6 DIVERT 6 610   7 4 6 130.         0.0                                      42A089
 6 REACH  3 710   6    5 700.        0.45                    1 1   1   1       42089
 6 ADDHYD 4 711   2 4 7                                      1 1       1       43089
 6 SAVMOV 5 711   7    2                                                       44089
 6 SAVMOV 5 710   5    4                                                       45089
 6 RUNOFF 1 209        6 0.04        76.         0.28        1 1   1   1      45A089
 6 ADDHYD 4 209   3 6 7                                      1 1              45B089
 6 REACH  3 208   7    5 5800.       0.47                    1 1   1           46089
 6 RUNOFF 1 208        6 0.28        76.         0.95        1 1   1   1       47089
 6 ADDHYD 4 208   5 6 7                                      1 1   1   1       48089
 6 SAVMOV 5 208   7    6                                                       49089
 6 ADDHYD 4 211   1 6 7                                      1 1   1   1       51089
 6 REACH  3 712   7    5 6300.       0.75                    1 1   1           52089
 6 ADDHYD 4 712   5 4 7                                      1 1   1   1       53089
   ENDATA                                                                      54070
 7 LIST                                                                        55068
 7 INCREM 6            0.20                                                    56068
```

```
7 COMPUT 7 001    712    0.0          3.70          1.00          2 2    01      57068
  ENDCMP 1                                                                        58070
7 COMPUT 7 001    712    0.0          3.25          1.00          2 2    03  02  59068
  ENDCMP 1                                                                        60070
7 COMPUT 7 001    712    0.0          2.80          1.00          2 2    03  03  61068
  ENDCMP 1                                                                        62070
7 COMPUT 7 001    712    0.0          2.20          1.00          2 2    03  04  63068
  ENDCMP 1                                                                        64070
  ENDJOB 2                                                                        65070
```

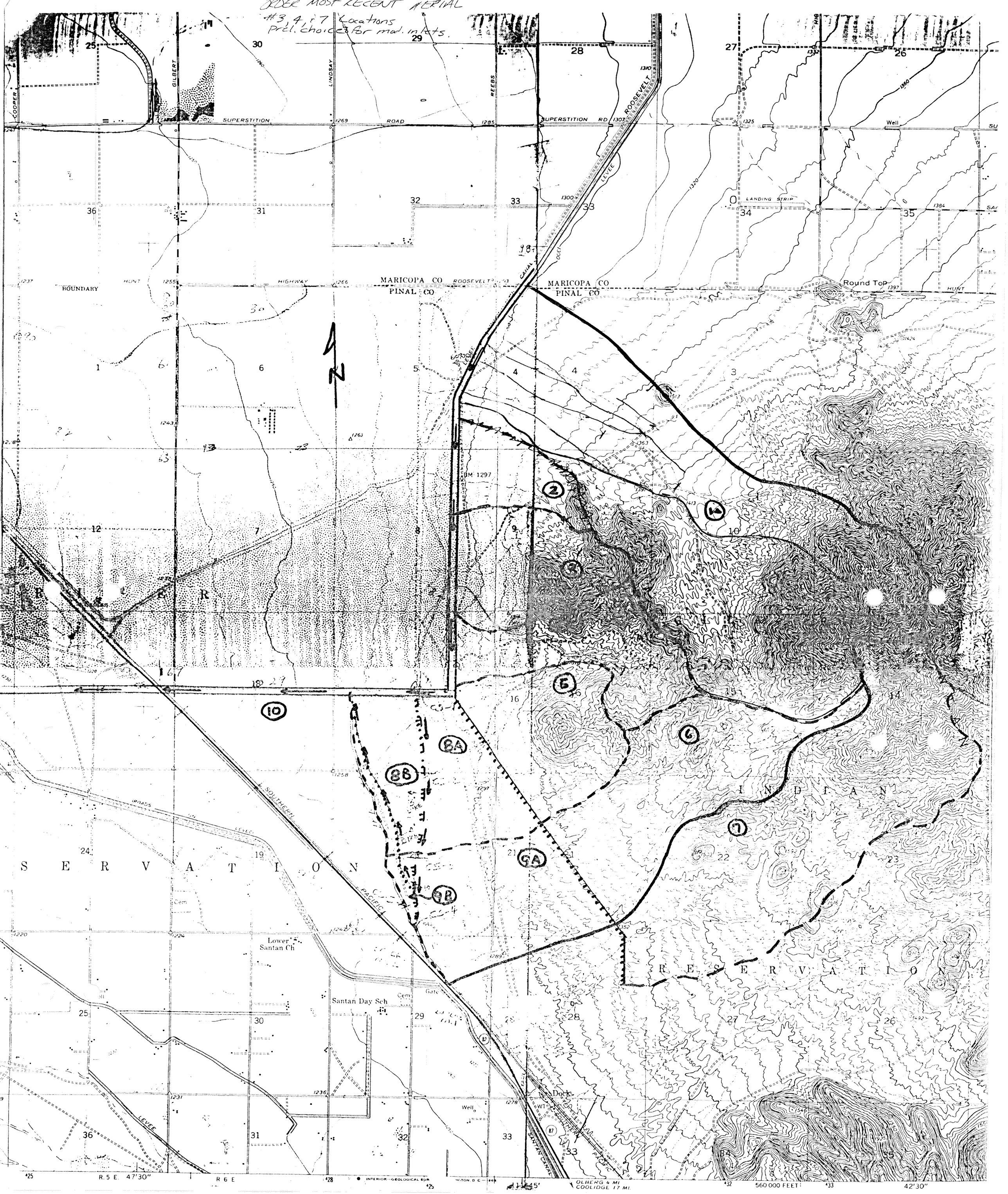

COOPER
GILBERT
LINDSAY
REEBS
SUPERSTITION ROAD
SUPERSTITION RD
ROOSEVELT
LEVEE
LANDING STRIP
Well
Round Top
HUNT
MARICOPA CO
PINAL CO
ROUNDARY
HIGHWAY
CANAL
SOUTHERN PACIFIC
LEVEE
Lower Santan Ch
Santan Day Sch
Cem
Dock
SANTAN CANAL
I N D I A N
R E S E R V A T I O N
R 5 E. 47'30"
R 6 E
OLBERG 4 MI
COOLIDGE 17 MI
560,000 FEET


COOPER
GILBERT
LINDSAY
REEBS
SUPERSTITION ROAD
SUPERSTITION RD
ROOSEVELT
LEVEE
LANDING STRIP
Well
BOUNDARY
HUNT
HIGHWAY
MARICOPA CO
PINAL CO
CANAL
Round Top
BM 1297
SOUTHERN
PACIFIC
Cem
Lower Santan Ch
Santan Day Sch
Gate
Dock
SANTAN CANAL
R 5 E. 47'30"
R 6 E.
INDIAN
RESERVATION
OLBERG 4 MI


SUPERSTITION ROAD
SUPERSTITION RD
ROOSEVELT
LEVEE
LANDING STRIP
Well
Round Top
HUNT
BOUNDARY
HIGHWAY
MARICOPA CO
PINAL CO
CANAL
GILBERT
LINDSAY
REEBS
COOPER
BM 1297
SOUTHERN PACIFIC
LEVEE
Lower Santan Ch
Santan Day Sch
Dock
SANTAN CANAL
I N D I A N
R E S E R V A T I O N
S E R V A T I O N
R 5 E
R 6 E
47'30"
42'30"
560 000 FEET
OLBERG 4 MI
COOLIDGE 17 MI.
INTERIOR—GEOLOGICAL SURVEY


CANAL
MARICOPA CO
PINAL CO
4
4
BM 1297
2
3
5
9
16
1363
1391
1987
540
816
642

OLDER MOST RECENT AERIAL
#3, 4, & 7 Locations
Prel. choice for mod. infcts.



7½ MIN Quad Sheet Delineation
BLOWUP TO AERIAL PHOTO
SCALE 8"/mi
11/10/88
Hem