VCD REACH 5 INLET HYDROLOGY ANALYSIS

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U.S. DEPARTMENT OF AGRICULTURE

SPEED MEMO

PART NUMBER	DATE
1	12/16/85

TO

Harry Millsaps - Hyd. Engr.

FROM

Wendell Styner - Hyd Engr

SUBJECT

RWCD Floodway - Inlet Hyd -

MESSAGE (WRITE CONCISE MESSAGE SIGN AND FORWARD PARTS 1 AND 3 TO ADDRESSEE RETAIN PART 2.)

The hydrology documentation for Reach 5 RWCD Floodway was reviewed & I concur with the design flows.

The documentation is well organized & you did a good job of tying in the earlier hydrology done by Bartels.

Two concerns you raised which need to be considered in design are:

1. The exact distribution of flows between ~~[illegible]~~ Quadalupe & Ray Roads is subject to local topography. Collection or diversion channels may be needed to insure access to the inlet structures.
2. When the "Master Drainage" plan is implemented the inlet structures will need to be reviewed for adequacy. An option is to design the inlet structures to the larger of with or without plan discharges.

SIGNATURE Wendell R Styner

Your Documentation is returned

REPLY (USE THIS SPACE FOR REPLY. SIGN AND DATE. RETURN PART 3 TO SENDER. RETAIN PART 1.)

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

SIGNATURE

DATE

FORM AD-311 (REV. 3/81)

ADDRESSEE COPY

United States Department of Agriculture

Soil Conservation Service

201 East Indianola Avenue
Suite 200
Phoenix, Arizona 85012

Subject: RWCD Floodway Reach 5, Inlet Hydrology Study, East Maricopa County, Arizona

Date: November 14, 1985

To: George C. Bluhm
Director, WNTC
Portland, OR

File code: 390-11-13-19

Enclosed is the documentation for the Inlet Hydrology Study for Reach 5 of the RWCD Floodway located in East Maricopa County, Arizona. Please have Wendell Styner review the study for adequacy and provide either approval or comments. A copy of the results of the study has been transmitted to the WNTC Design Staff, who is presently in the process of designing this reach; therefore, a copy of any comments you might have should be given to them.

Since this is the original copy of the documentation, please return it to Arizona, when you have completed your review.

Harry C. Millsaps
for

W. Wayne Killgore
ASTC(WR)

Enclosure

cc: (w/o enc.)
Wendell Styner, Hyd. Engr., WNTC, Portland, OR
Ralph Arrington, SCE, Phoenix, AZ
Harry Millsaps, Hyd. Engr., Phoenix, AZ

United States Department of Agriculture

Soil Conservation Service

201 East Indianola Avenue
Suite 200
Phoenix, Arizona 85012

Subject: PDM - RWCD Reach 5, Inlet Hydrology

Date: October 18, 1985

To: Ralph M. Arrington
State Conservation Engineer

File code: 390-11-13-19

Attached is a copy of the Results of an Inlet Hydrology Study made for the RWCD Reach 5. The recommended discharges and inlet locations are based on TR-20 runs and field reconniassance, but the final distribution of the flows is based on subjective judgement.

Should you have any questions, please contact me.

Harry C. Millsaps
Hydraulic Engineer

Attachment

cc: (w/attach.)
W. Wayne Killgore, ASTC(WR), SCS, Phoenix, AZ

RWCD REACH-5
INLET HYDROLOGY
RESULTS OF STUDY

This study was conducted for the purpose of estimating peak inflows for side inlets to the RWCD from Quadalupe Road downstream (south) to Ray Road and/or Powerline Floodway. The drainage areas consist of about 51-square miles of which approximately 2-square miles is non-contributing. The non-contributing areas consist of Subareas #16 and 31A. These two Subareas are controlled by floodwater retarding structures which basically have no outlets and control runoff from a storm approximately equal-to or greater-than the 100-year flood.

Discharges were developed for the 10-, 25- and 100-year storms based on the Year-2000 curve numbers; calculated assuming 1-inch of storage on new developments. Times of concentration, however, were modified for future conditions using curve numbers calculated without the effect of on-site storage.

Storm rainfalls were applied over the total area at a uniform rate but areally reduced for the total 51-square mile watershed. The areal reduction was necessary, since the flow splits at Sossaman and Quadalupe Road intersection and other road intersections located along Sossaman Road to the south. These divisions of flow causes the total drainage area to contribute to each inlet location.

The exact distribution of flows along Sossaman Road, and thus along the RWCD, is difficult to determine. Although the total discharge between Quadalupe and Ray Roads appear to reasonable, judgement needs to be used in locating and sizing the various inlet structures.

For example, based on the TR-20 routing, a sizeable 100-year discharge (2,377 cfs) enters the RWCD near the half mile section between Ray and Warner Roads. Approximately 1,450 cfs of this amount, however, was calculated to be runoff diverted by Sossaman Road from drainage areas to the north. Although the assumptions made in the TR-20 program are reasonable for low runoff producing storms, it is possible with the larger floods, such as the 100-year flood, that a greater percent of the flow would overtop the west side of Sossaman Road and enter the RWCD at points further to the north. Thus based on a final field reconniassance, it was decided to distribute the total discharge between Quadalupe and Ray Roads as shown on the attached discharge table and maps. Inlet locations were assumed to be at or near the 1/4, 1/2 and 1-mile section lines.

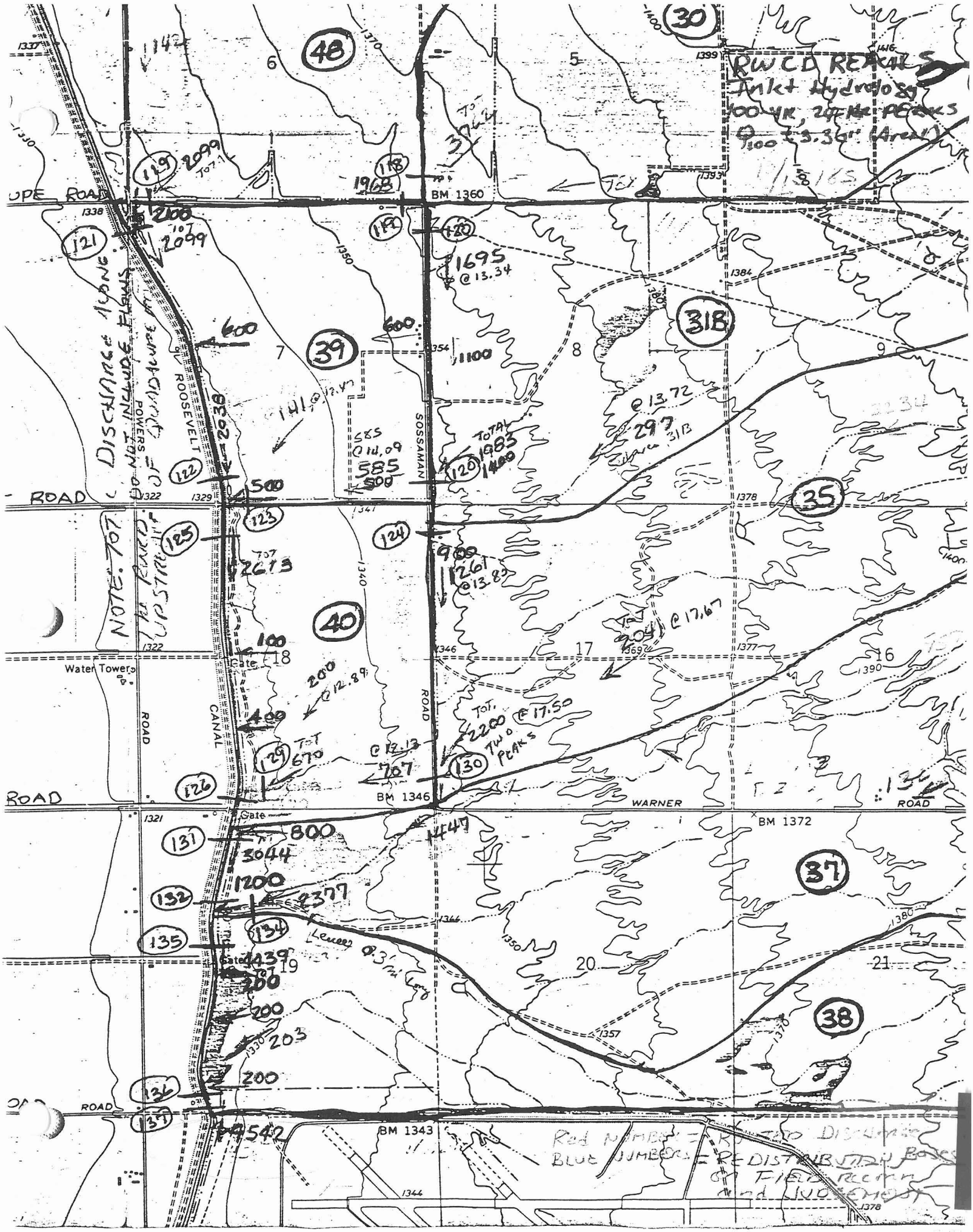
With the installation of the "Selected Alternative" of the Master Drainage plan the proposed inlet discharges will become obsolete. The "Selected Alternative" calls for three major east-west channels to be installed along Quadalupe, Elliot and Warner Roads, respectively. This will require that the proposed inlet structures at these locations be enlarged to account for the expected increase in peak discharges. By the same token, the required capacities of some of the other inlets will decrease, especially for the two major structures located south of Warner road. A decision will need to be made during final design as to the required capacity for each of the structures.

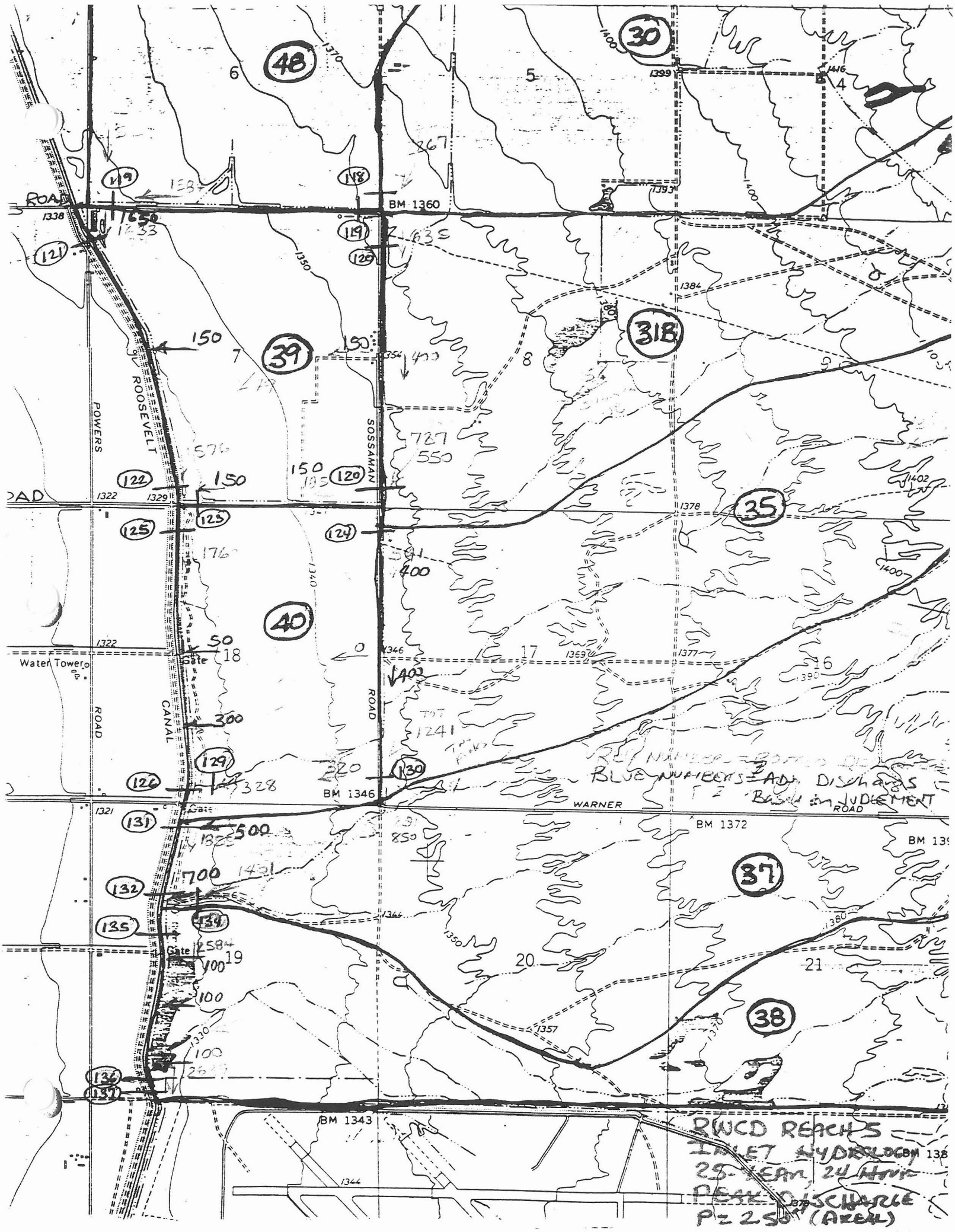
Harry C. Millsap

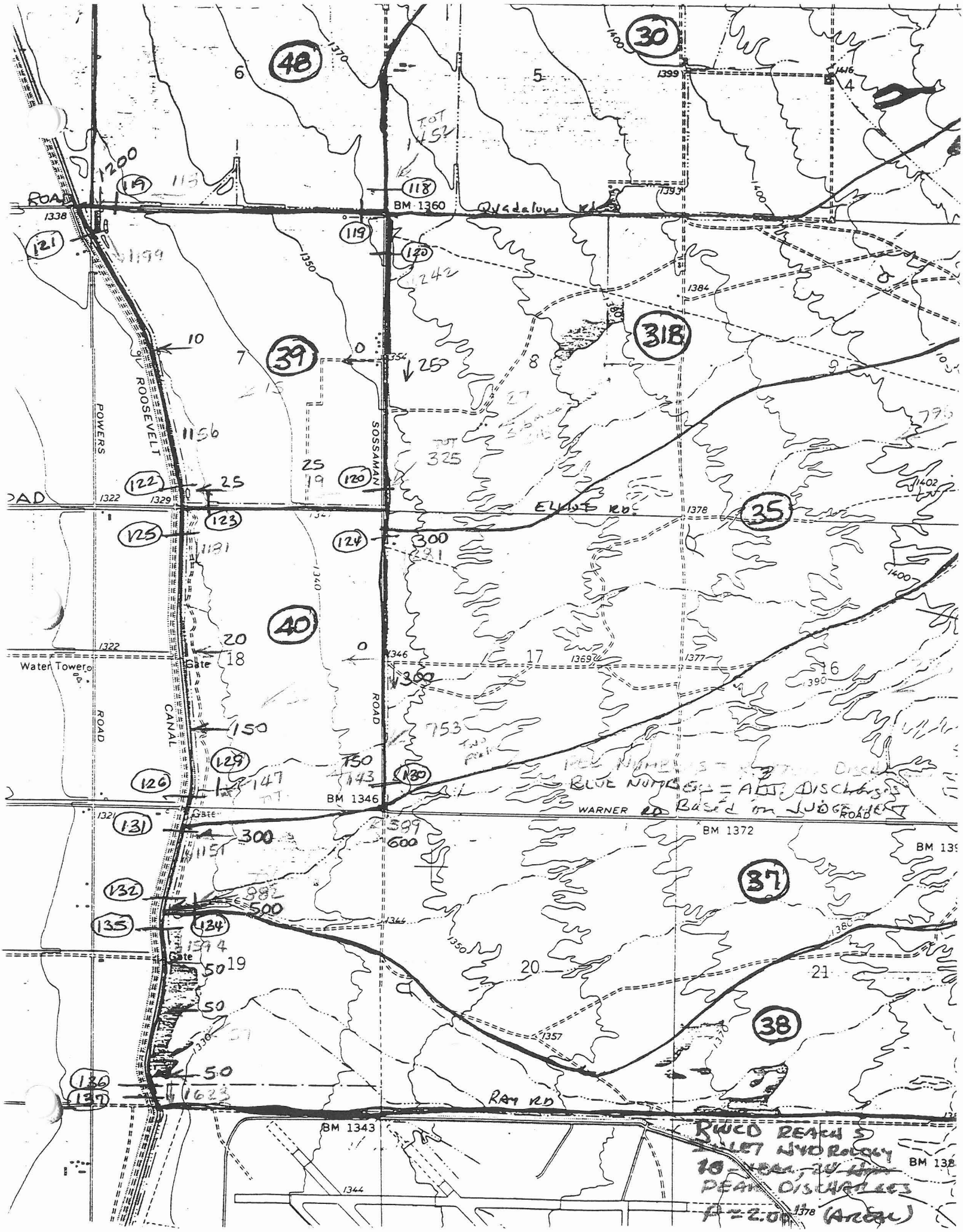
Recommended Peak Discharge - Frequency
For Year 2000, W/1-inch of Storage
and W/O Master Drainage Plan

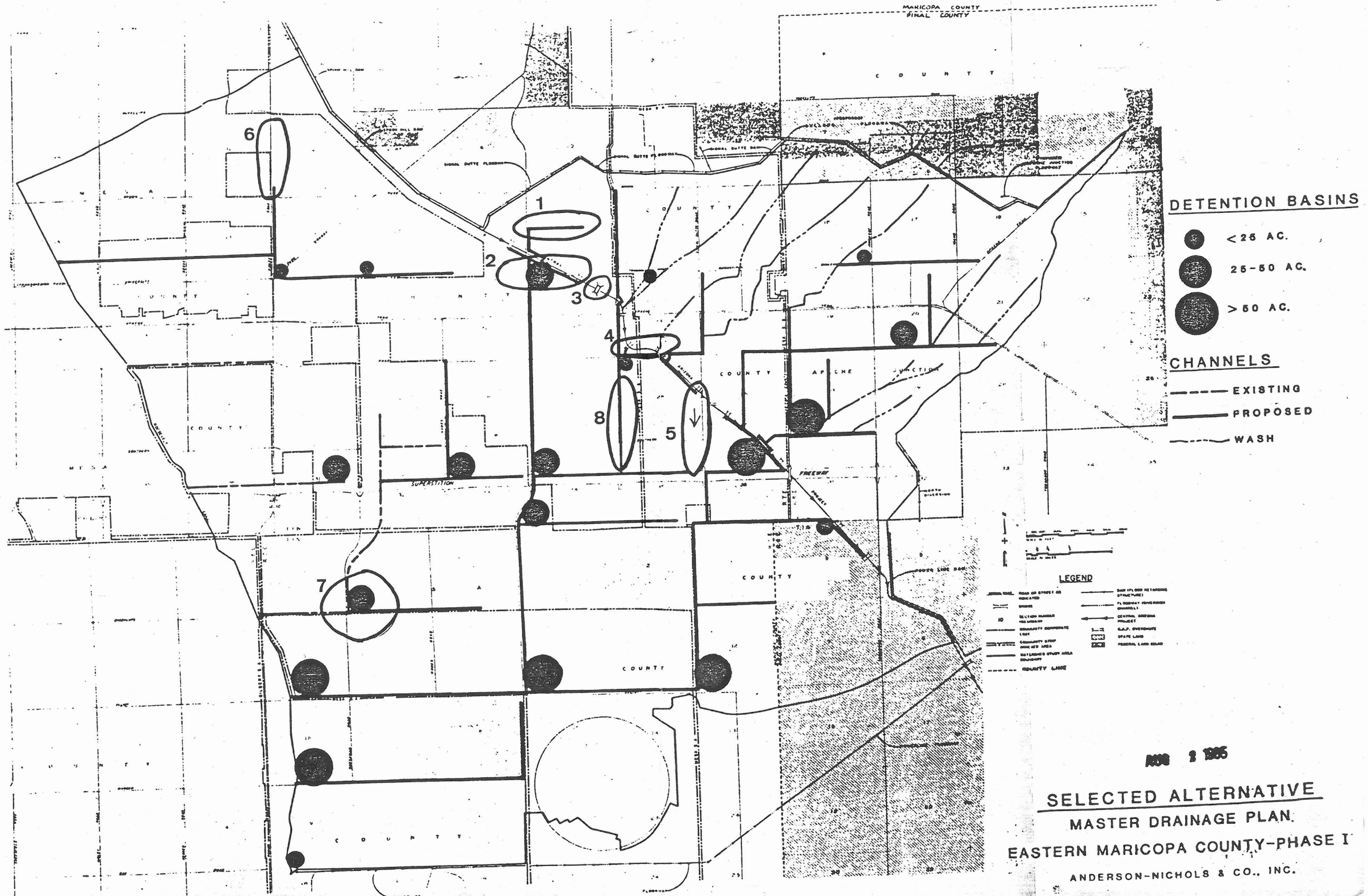
LOCATION	Discharge - cfs 1/ 10-Year	25-Year	100-Year
Quadalupe Rd. (119)	1200	~~1050~~ 1650	2100
1/2 Mi.: So. of Quad. Rd.	10	150	600
Elliot Rd. (123)	25	150	500
1/2 Mi.: So. of Elliot Rd.	20	50	100
3/4 Mi.: So. of Elliot Rd.	150	300	400
Warner Rd (129)	300	500	800
N. Side of Aquaduct	500	700	1200
1/2 Mi.: So. of Warner Rd.	50	100	200
3/4 Mi.: So of Warner Rd.	50	100	200
Ray Road	50	100	200

1/ NOTE: These discharges are best estimates of flow distibution based on routed floods and judgement during Field Reconniassance.


RWCD RECALS
Ankt Hydrology
100 yr, 24 hr peaks
Q100 = 3.36" (Area 1)
DISCHARGE ALONG
DO NOT INCLUDE FLOWS
NOTE: TOT IN PARENTHESIS UPSTREAM
BM 1360
BM 1346
BM 1372
BM 1343
ROOSEVELT
POWERS
SOSSAMAN
ROAD
CANAL
WARNER
Water Tower
Gate
Levee
TOTAL 1983
TWO PEAKS
Red NUMBERS = RO DISCHARGE
BLUE NUMBERS = REDISTRIBUTION BASED ON FIELD RECON AND INVENTORY


ROAD
POWERS
ROOSEVELT
CANAL
SOSSAMAN
ROAD
WARNER
ROAD
Water Tower
Gate
BM 1360
BM 1346
BM 1372
BM 1343
BLUE NUMBERS = ADJ. DISCHARGES
BASED ON JUDGEMENT
RWCD REACH 5
INLET HYDROLOGY
25-YEAR, 24 HOUR
PEAK DISCHARGE
P = 250 (AREA)


ROAD
BM 1360
Guadalupe Rd
POWERS
ROOSEVELT
SOSSAMAN
ELLIOT RD
Water Tower
Gate
ROAD
CANAL
ROAD
BM 1346
WARNER RD
ROAD
BM 1372
RAY RD
BM 1343
BLUE NUMBERS = ALL DISCHARGES
Based on JUDGMENT
RWCD REACH 5
INLET HYDROLOGY
PEAK DISCHARGES
A = 2.00 (AREA)



AUG 2 1985

SELECTED ALTERNATIVE

MASTER DRAINAGE PLAN

EASTERN MARICOPA COUNTY-PHASE I

ANDERSON-NICHOLS & CO., INC.

United States
Department of
Agriculture

Soil
Conservation
Service

Suite 200
201 E. Indianola
Phoenix, AZ 85012

Subject: ENG. - Hydrology Assistance

Date: July 15, 1985

To: Wayne Killgore ASTS

File Code: 210

At the recent meeting on Weeks Wash, the Maricopa County Flood Control District asked that Soil Conservation Service determine benefits of Weekes Wash FRS to the Powerline FRS. A preliminary research indicates we do not have the needed data on file. We request the assistance of an hydrologist to route the Powerline FRS Watershed with and without Weekes Wash FRS to determine benefits. We estimate 10 days time.

Ralph M Arrington

Ralph Arrington
State Conservation Engineer

Harry:
What about this one?
It is worthwhile and
I can do it. I need to
respond to them.
Wayne

COMPUTATIONS
SCS ENG 522A
Rev 1-80

STATE: ARIZ
BY: Hom
DATE: 7/11/85
SUBJECT: DRAINAGE AREAS

RWCD REACH 5, INLET HYDROLOGY

Subarea No.	D.A. (Mi²)
1 (27B)	0.29
2 (28)	0.38
3 (29)	0.51
4 (30)	0.33
5 (8+31)	1.25
6 (3)	2.44
7	1.60
8	1.48
9	1.30
10	1.04
11 (32)	0.15
12 (4)	0.65
13	1.30
14	1.38
15	0.85
16	0.89
17	0.11
18	0.14
19	0.20
20	0.08
21	1.87
22	2.20
23	0.49
24	0.79
25	0.21
26	0.94
27	0.44
28	0.38
29	0.70
30	1.79
31A	1.00

JULY
SEE 1924 HIST. STORM STUDY BUCKHORN MESA WIS

Subarea No.	D.A. (Mi²)
31B	1.70
32	1.98
33	2.61
34	3.23
35	1.83
36	2.73
37	2.34
38	1.23
39	0.81
40	0.67
	46.91
41	0.15
42	0.21
43	0.46
44	0.29
45	0.24
46	0.77
47	0.43
48	1.06
	3.61

TOTAL = 50.52
− .89 Subarea 16
− 1.00 Subarea 31A
NET D.A. = 48.63

11/5/02
Jim

RWCD, REACH 5
DRAINAGE AREA
MAP SCALE = 1:24,000 (SMALL BLACK PLANIMETER)

Subarea #7

73.62	84.85	95.96
62.45	73.62	84.85
11.17	11.23	11.11

11.17 □" x .1435 = 1.60 mi²

Subarea #8

106.20	16.59	26.81	37.17
95.96	6.20	16.59	26.81
10.24	10.39	10.22	10.36

10.30 □" x .1435 = 1.48 mi²

Subarea #9

55.37	[illegible]	73.47
46.38	55.37	64.47
9.04	9.10	8.95

9.06 □" x .1435 = 1.30 mi²

Subarea #10

[illegible]	[illegible]	[illegible]	41.17
[illegible]	[illegible]	[illegible]	33.99
7.21	7.09	7.17	7.18

7.27 □" x .1435 = 1.04 mi²

Subarea #13

[illegible]	[illegible]	82.13
54.91	[illegible]	[illegible]
9.04	8.96	9.15

9.08 □" x .1435 = 1.30 mi²

7/10/85
Jim

RINCO REACH 3
DRAINAGE AREAS

Subarea #14

91.82	101.34	10.97	
82.13	91.82	1.35	9.61 □" X .1435 = 1.38 mi²
9.69	9.52	9.63	

Subarea #15

34.30	40.22	46.08	52.02	
28.28	34.30	40.22	46.08	5.94 □" X .1435 =
6.02	5.92	5.86	5.94	0.85 mi²

Subarea #16

58.20	64.21	70.40	76.54	
52.02	~~58.20~~	64.21	70.40	6.17 □" X .1435 = 0.89 mi²
6.18	6.01	6.19	6.14	

Subarea # 17

5.50	6.31	7.12	
4.73	5.50	6.31	0.80 □" X .1435 = 0.11 mi²
0.77	0.81	0.81	

Subarea # 18

8.10	9.08	10.05	
7.12	8.10	9.08	0.98 □" X .1435 = 0.14 mi²
0.98	0.98	0.97	

7/11/25

Hm

RWCD REACH 5
DRAINAGE AREAS

Subarea #19

4.17	5.62	7.00	
2.87	4.17	5.62	1.38 □" X .1435 = 0.20 mi²
1.30	1.45	1.38	

Subarea #20

11.66	6.40	11.18	
7.00	1.66	6.40	4.73 □" X .1435 = 0.68 mi²
4.66	4.74	4.78	

Subarea #21

50.45	63.40	76.46	
37.45	50.45	63.40	13.00 □" X .1435 = 1.87
13.00	12.95	13.06	

Subarea #22

91.77	107.10	22.45	
76.46	91.77	7.10	15.33 □" X .1435 = 2.20 mi²
15.31	15.33	15.35	

Subarea #23

37.91	41.32	44.77	
34.42	37.91	41.32	3.44 □" X .1435 = 0.49 mi²
3.49	3.42	3.43	

7/11/85
Jim

RWCD REACH 5
DRAINAGE AREAS

Subarea # 24

50.27	55.76	61.23	
44.79	50.27	55.76	5.48 □" X .1435 = 0.79 Mi²
5.47	5.49	5.47	

Subarea # 25

74.88	76.34	77.78	
73.42	74.88	76.34	1.45 □" X .1435 = 0.21 Mi²
1.46	1.46	1.44	

Subarea # 26

23.98	30.43	37.00	43.50	
17.41	23.98	30.43	37.00	6.52 □" X .1435 = 0.94 Mi²
6.57	6.45	6.57	6.50	

Subarea # 27

46.52	9.50	12.62	5.75	
43.50	6.52	9.50	2.62	3.06 □" X .1435 = 0.44 Mi²
3.02	2.98	3.12	3.13	

Subarea # 28

80.45	83.13	85.74	
77.78	80.45	83.13	2.66 □" X .1435 = 0.38 Mi²
2.67	2.68	2.61	

7/11/85
Hem

RWCD REACH 5
DRAINAGE AREAS

Subarea # 39

12.10	7.72	13.40
6.36	2.10	7.72
3.64	5.62	5.68

$5.65^{\square''} \times .1435 = 0.81\ mi^2$

Subarea # 40

8.09	12.80	7.50
3.40	8.09	2.80
4.69	4.71	4.70

$4.70^{\square''} \times .1435 = 0.67\ mi^2$

8/9/85
~~Hem~~ Subarea # 45

90.29	91.93	93.64	95.34
88.60	90.29	91.93	93.64
1.69	1.64	1.71	1.70

$1.70^{\square''} \times .1435 = 0.24\ mi^2$

Subarea # 46

100.73	6.08	11.45
95.34	00.73	6.08
5.39	5.35	5.37

$5.37^{\square''} \times .1435 = 0.77\ mi^2$

Subarea # 47

$(1.95)\left(\frac{1.0 + 1.95}{2}\right) = 2.98^{\square''} \times .1435 = 0.43\ mi^2$

Subarea # 48

$1^{\square}\ mi + \frac{\frac{2800'}{2}(1300')}{43560 \times 640} = 1.07\ mi^2$

7/11/85
Hem

RWCD REACH 5
DRAINAGE AREAS

Subarea #29

90.67	95.72	100.59	5.59	10.40
85.74	90.67	95.72	0.59	5.59
4.83	5.05	4.87	5.00	4.81

4.91 □'' X .1435 = 0.70

Subarea #30

18.78	31.31	43.71
6.25	18.78	31.31
12.53	12.53	12.40

12.49 □'' X .1435 = 1.79 Mi²

Subarea #31A + 31B

106.96	24.60	42.14
89.27	6.96	24.60
17.71	17.64	17.54

17.63 □'' X .1435 = ~~2.53~~ 2.70 Mi²
+ 1.18
18.81

With 1.00 Mi² in 31A
And 1.70 Mi² in 31B

Subarea #32

103.53	18.54	33.54
88.55	3.53	18.54
14.98	15.01	15.00

15.00 □'' X .1435 = ~~2.15~~ 1.98 Mi²
− 1.18
13.82

Subarea #33

51.88	70.00	88.12	106.36
33.54	51.88	70.00	88.12
18.34	18.12	18.12	18.24

18.20 □'' X .1435 = 2.61 Mi²

7/11/85
Hem

RWCD REACH 5
DRAINAGE AREAS

Subarea # 34

89.36	111.95	34.45	56.88	
66.74	89.36	11.95	34.45	22.54 □" X .1435 = 3.23 mi²
22.62	22.59	22.50	22.43	

Subarea # 35

88.93	101.70	14.50	27.41	
76.29	88.93	1.70	14.50	12.78 □" X .1435 = 1.83 mi²
12.64	12.77	12.80	12.91	

Subarea # 36

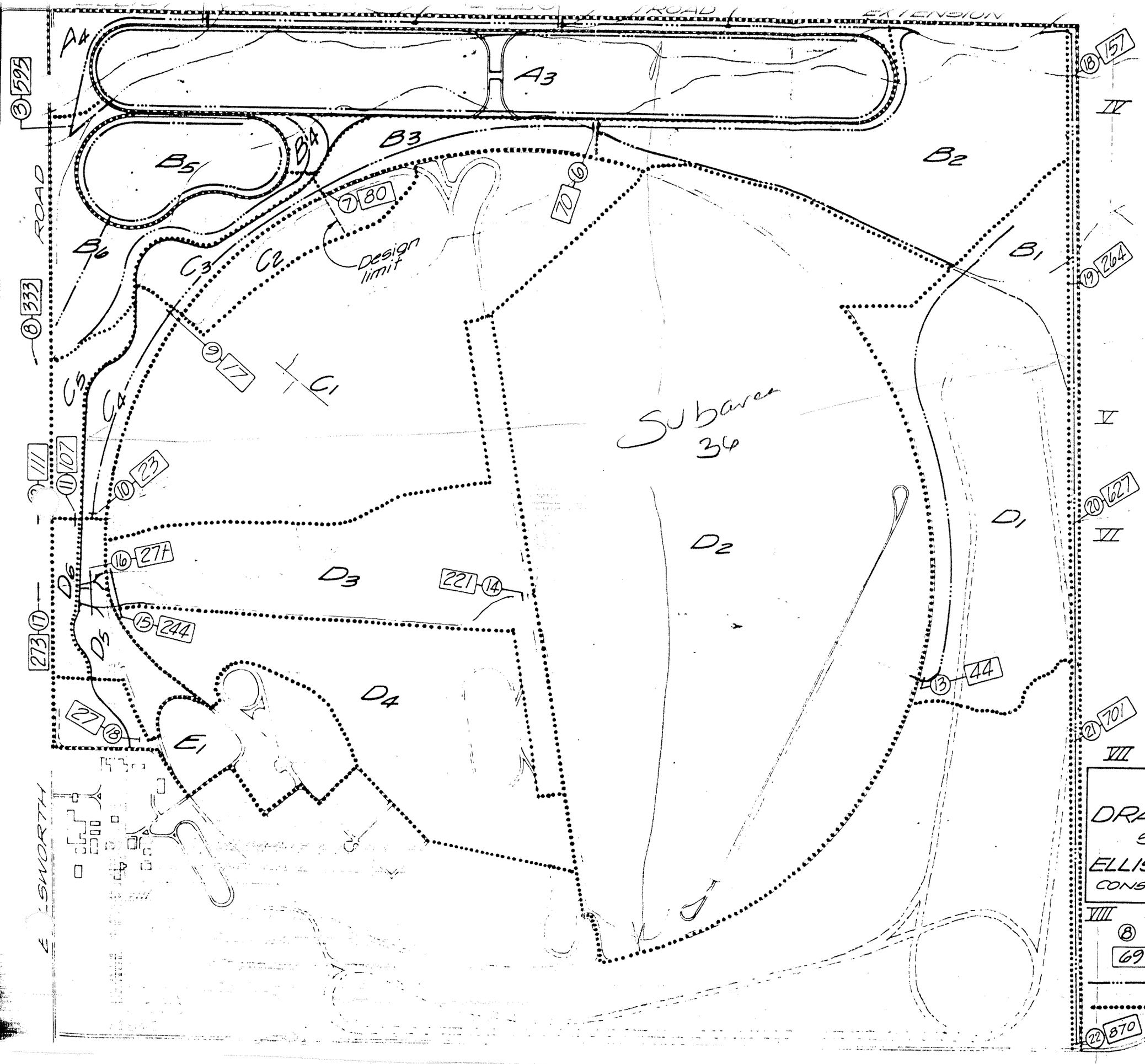
73.12	92.26	111.18	30.18	
54.20	73.12	92.26	11.18	19.00 □" X .1435 = 2.73 mi²
18.92	19.14	18.92	19.00	

Subarea # 37

83.95	100.15	16.55	32.75	
67.63	83.95	0.15	16.55	16.28 □" X .1435 = 2.34 mi²
16.32	16.20	16.40	16.20	

Subarea # 38

41.40	50.09	58.62	67.12	76.63	
32.75	41.40	50.09	58.62	67.12	8.58 □" X .1435 = 1.23 mi²
8.65	8.69	8.53	8.50	8.51	



	(ACRES)
A1	14
A2	14
A3	348
A4	15
B1	40
B2	132
B3	27
B4	7
B5	42
B6	47
C1	260
C2	28
C3	15
C4	21
C5	14
D1	147
D2	781
D3	119
D4	129
D5	18
D6	11
E1	76

N
W E
S

FROM Hydrological Report FOR GOLDEN HILLS DESIGN PLANNING Surrounds, RIDC & Structure Development Road dated April 1976

ONSITE DRAINAGE AREAS

SCALE: 1" = 1000'

ELLIS, MURPHY & HOLGATE

CONSULTING CIVIL ENGINEERS

(8) Point designation

[69] Accumulated runoff (c.f.s.)

Proposed channel

Drainage area boundary

EXHIBIT A

ARIZONA RWCD REACH 5, INLET HYDROLOGY

Hm 7/12/85

TIMES OF CONCENTRATION 1 8

Subarea #1

$T_c = 0.59$ Hrs (From July 1984 Hist Storm Analysis for Subarea 27B)

$L = 7500'$

$V_{avg} = \frac{7500}{(0.59)(3600)} = 3.5$ ft/sec

Subarea #2

$T_c = 0.63$ Hrs (Subarea 28, July 1984, Hist. Storm Analysis)

$L = 8600'$

$V_{avg} = \frac{8600}{(3600)(0.63)} = 3.8$ ft/sec

Subarea #3

$T_c = 0.69$ Hrs (Subarea 29, July 1984, Hist. Storm Analysis)

$L = 9000'$

$V_{avg} = \frac{9000}{(3600)(.69)} = 3.6$ ft/sec

Subarea #4

$T_c = 0.60$ Hrs (Subarea 30, July 1984 Hist. Storm Analysis)

$L = 9300'$

$V_{avg} = \frac{9300}{(3600)(0.60)} = 4.3$ ft/sec

Subarea #5

$L = 7300 + 6400 = 13{,}700$ (Subareas 8 & 31 of July 1984 Hist Storm Analysis Combined)

$V = 4.5$ ft/sec for $L = 7300'$ Subarea 8, July 1984 Storm Analysis

$V = 5.0$ ft/sec for $L = 6400'$ Subarea 31, July 1984 Storm Analysis

$T_c = \frac{7300}{(3600)(4.5)} + \frac{6400}{(3600)(5.0)} = 0.45 + 0.36 = 0.81$ Hours.

ARIZ RWCD REACH 5, Inlet Hydrology

Hem 7/14/85

Times of Concentration 2 8

Subarea #6

$T_c = 1.34$ Hrs (Subarea #3, July 1984, Storm Analysis)

$L = 17,100'$

$V_{avg} = \frac{17,100}{(3600)(1.34)} = 3.5$ ft/sec

Subarea #7

$L = 12,000$

$V_{avg} = 3.5$ ft/sec (Based on Subarea #3 Calc for July 1984 Storm Analysis)

$T_c = \frac{12000}{(3600)(3.5)} = 0.95$ Hrs

Subarea #8

$L = 10,500$

$V_{avg} = 3.5$ ft/sec (Based on Subarea #3, July 1984 Storm Analysis)

$T_c = \frac{10,500}{(3600)(3.5)} = 0.83$ Hrs

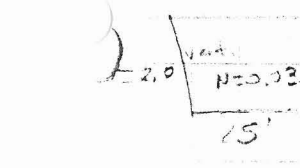
Subarea #9

$L = 15,500'$

$V = 3.8$ ft/sec Based on previous calc for July 1984 storm

$T_c = \frac{15500}{(3600)(3.8)} = 1.13$ Hrs

Subarea #10



$A = (2.0)(25) = 50$ $S = \frac{9.0}{920} = .0095$

$wp = 29'$

$r = \frac{50}{29} = 1.72$

$V = \frac{1.486}{.035}(1.72)^{1.00}(.0095)^{.0950} = 6.0$ ft/sec

$L = 9000'$

$T_c = \frac{9000}{(3600)(6)} = 0.42$ Hrs

ARIZ RWCD REACH 5, Inlet Hydrology

Hem 7/12/85

Times of Concentration 3 8

Subarea #11

$R = 1.0$

$S = \frac{70}{2300} = 0.0087$

$N = 0.055$

$L = 3400$

$V = \frac{1.486}{.055}(1.0)^{2/3}(.0087)^{1/2} = 2.8$ ft/sec

$T_c = \frac{3400}{(3600)(2.8)} = 0.34$ hrs

Subarea # 12

$T_c = 0.63$ hrs (Subarea #6, July 1984 Storm analysis)

$L = 5400'$

$V = \frac{5400}{(3600)(.63)} = 2.4$ ft/sec

Subarea # 13

$S = \frac{1650 - 1570}{8500} = 0.0094$, $L = 10,200'$

$V = 2.5$ ft/sec (Based on Vel calc for Subarea #4, July 1984 Storm Analysis)

$T_c = \frac{10,200}{(3600)(2.5)} = 1.13$ hrs

Subarea # 14

$L = 13,000$

$V = 2.5$ ft/sec (Based on Subarea #4, July 1984 Storm Analysis)

$T_c = \frac{13,000}{(3600)(2.5)} = 1.44$ hrs

Subarea # 15

$L = 7000'$ $S = \frac{70}{7000} = 0.01$

$R = 1.5$

$N = 0.055$ $V = \frac{1.486}{.055}(1.5)^{2/3}(.01)^{1/2} = 3.6$ ft/sec

$T_c = \frac{7000}{(3600)(3.6)} = 0.54$

AR12 RWCD REACH 5, Inlet Hydrology

Hmm 7/17/85

Times of Concentration 4 8

Subarea #16

$L = 8500$ $S = \frac{50}{4700} = 0.0106$ $T_c = \frac{8500}{(3600)(2.8)} = 0.84$ Hrs

$N = 0.055$

$R = 1.0$ $V = \frac{1.486}{.055}(1)^{2/3}(.0106)^{1/2} = 2.8$ ft/sec

Subarea #17 $S = 0.01$

$L = 1750'$ $T_c = \frac{1750}{(3600)(1.9)} = 0.26$ Hrs

$N = 0.065$ $V = \frac{1.486}{.065}(0.75)^{.82}(.01)^{.1} = 1.9$

$R = 0.75$

Subarea #18

$L = 1650$

$V = 1.9$ ft/sec (See Subarea #17 above)

$T_c = \frac{1650}{(3600)(1.9)} = 0.24$ Hrs

Subarea #19

$L = 3100'$ $S = \frac{40}{4300} = 0.0093$ $T_c = \frac{3100}{(3600)(2.2)} = 0.39$ Hrs

$N = 0.065$

$R = 1.0$ $V = \frac{1.486}{.065}(1)^{2/3}(.0093)^{1/2} = 2.2$ ft/sec

Subarea #20

$L = 5500$

$V = 2.2$ (See Subarea #19 Above)

$T_c = \frac{5500}{(3600)(2.2)} = 0.69$ hrs

Subarea #21

$L = 11,400$ $R = 1.0$ $T_c = \frac{11,400}{(3600)(2.1)} = 1.51$ hrs

$S = \frac{80}{4700} = 0.0082$

$N = 0.065$ $V = \frac{1.486}{.065}(1)^{2/3}(.0082)^{1/2} = 2.1$ ft/sec

ARM. RWCD REACH 5, INLET HYDROLOGY

Hem 7/17/85

TIMES OF CONCENTRATIONS 5 8

Subarea # 22

$L = 11,500'$ $R = 1.0$

$S = \frac{90}{10,500} = .00857$ $V = \frac{1.486}{.065}(1)^{2/3}(.00857)^{1/2}$ $T_c = \frac{11,500}{(3600)(2.1)} = 1.52$ Hrs

$N = 0.065$ $V = 2.1$

Subarea # 23

$L = 8200'$

$V = 2.1$ (See Subarea # 22 above)

$T_c = \frac{8200}{(3600)(2.1)} = 1.08$ Hrs

Subarea # 24

$L = 6500'$ $S = \frac{40}{4800} = 0.00833$ $T_c = \frac{6500}{(3600)(1.7)} = 1.06$ Hrs

$R = 0.75$

$N = 0.065$ $V = \frac{1.486}{.065}(0.75)^{2/3}(.00833)^{1/2} = 1.7$ ft/sec

Subarea # 25

$L = 4000'$

$V = 1.7$

$T_c = \frac{4000}{(3600)(1.7)} = 0.65$ Hrs

Subarea # 26

.0 $L = 11,400'$ $S = \frac{50}{7700} = 0.00649$

0.15 $N = 0.030$ $T_c = \frac{11,400}{(3600)(3.3)} = 0.96$ Hrs

$R = 0.75$ $V = \frac{1.486}{.03}(.75)^{2/3}(.00649)^{1/2} = 3.3$

Subarea # 27

$L = 3200'$

$V = 2.1$ (See Subarea # 22 above)

$T_c = \frac{3200}{(3600)(2.1)} = 0.42$ Hrs

ARIZ RWCD REACH 5, INLET HYDROLOGY

Hem 7/17/25

Times of Concentration

6 8

Subarea #28

$L = 5000$ $S = \frac{40}{4800} = 0.00833$

$R = 1.0$ $T_c = \frac{5000}{(3600)(2.1)} = 0.66$ hrs

$N = 0.065$ $V = \frac{1.486}{.065}(1)^{2/3}(.00833)^{1/2} = 2.1$ (.0913)

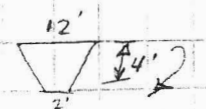
Subarea #29

$L = 5000'$

$V = 2.1$ (See Subarea 28 above)

$T_c = \frac{5000}{(3600)(2.1)} = 0.66$ hrs

Subarea #30



$L_1 = 3000'$	$L_2 = 3200'$	$L_3 = 7000'$
$R = 1.0$	$R = 1.5$	$R = 2$
$N = 0.055$	$N = 0.040$	$N = 0.040$
$S = .01$	$S = \frac{6}{2400} = .00250$ (.0535)	$S = \frac{4}{6800} = .00588$
$V = \frac{1.486}{.055}(1)^{2/3}(.01)^{1/2} = 2.7$	$V = \frac{1.486}{.040}(1.5)^{2/3}(.00250)^{1/2} = 2.6$ ft/sec (.31)	$V = \frac{1.486}{0.040}(2)^{2/3}(.00588)^{1/2} = 4.5$ (1.59) (.0767)
$T_c = \frac{3000}{(3600)(2.7)} = 0.31$	$T_c = \frac{3200}{(3600)(2.6)} = 0.34$	$T_c = \frac{7000}{(3600)(4.5)} = 0.43$

$T_c = 0.31 + 0.34 + 0.43 = \underline{1.08 \text{ hrs}}$

Subarea #31A

$L = 10,600$ $S = \frac{30}{4000} = 0.0075$

$R = 0.75$ $T_c = \frac{10,600}{(3600)(1.6)} = 1.84$

$N = 0.065$ $V = \frac{1.486}{.065}(0.75)^{2/3}(.0075)^{1/2} = 1.6$ (.83) (.0866)

Subarea #31B

$L = 14600$ $N = 0.065$

$S = \frac{80}{12000} = 0.00667$

$R = 0.75$ $V = \frac{1.486}{.065}(.75)^{2/3}(.00667)^{1/2} = 1.5$ (.83) (.0817)

$T_c = \frac{14600}{(3600)(1.5)} = 2.70$ hrs

ARIZ RWCD REACH 5, INLET HYDROLOGY

Hom 7/17/85

TIMES OF CONCENTRATION 7 8

Subarea # 32

L = 14,000 S = 0.00833

V = 2.1 (See Subarea # 28 on previous page)

$T_c = \frac{14,000}{(3600)(2.1)} = 1.85$ Hrs

Subarea # 33

L = 22,800 R = 0.75

S = 50/70000 = .00714

N = 0.065

$V = \frac{1.486}{.065}(.75)^{2/3}(.00714)^{1/2} = 1.6$ (.825, .0845)

$T_c = \frac{22,800}{(3600)(1.6)} = 3.96$

Subarea # 34

L = 21,600'

R = 2.0

$S = \frac{100}{17,600} = .00568$

N = 0.055

$V = \frac{1.486}{0.055}(2.0)^{2/3}(.00568)^{1/2}$ (1.59, .0754)

V = 2.4 ft/sec

$T_c = \frac{21,600}{(3600)(2.4)} = 2.5$ hr

Subarea # 35

L = 12,900

R = 0.8

N = 0.065

$S = \frac{50}{10,000} = 0.005$

$V = \frac{1.486}{.065}(.8)^{2/3}(.005)^{1/2} = 1.7$ ft/sec (.59, .0707)

$T_c = \frac{12,900}{(3600)(1.7)} = 2.10$ Hrs

Subarea # 36

L = 11,400' S = 40/9900 = .00404

R = 2.0

N = 0.045

$V = \frac{1.486}{.045}(2)^{2/3}(.00404)^{1/2} = 3.3$ ft/sec (1.59, .0635)

$T_c = \frac{11,400}{(3600)(3.3)} = 0.96$ hrs

Subarea # 37

L = 15,700'

V = 1.7 ft/sec (See Subarea 35 above)

$T_c = \frac{15,700}{(3600)(1.7)} = 2.8$ hrs

AR12 RWCD REACH 5, INLET HYDROLOGY

~~Hem~~ 7/17/85

TIMES OF CONCENTRATION 8 8

Subarea #38

L = 16,300

V = 1.7 ft/sec (See Subarea #35 in previous page)

$T_c = \frac{16,300}{(3600)(1.7)} = 2.66$ Hrs

Subarea # 39

L = 4500'

V = 1.5

$T_c = \frac{4500}{(3600)(1.5)} = 0.83$ Hrs

Subarea #40

L = 3400

V = 1.5

$T_c = \frac{3400}{(3600)(1.5)} = 0.63$ Hrs

4/19/85 Subarea #41

~~Hem~~

$T_c = 0.29$ (Subarea 24, July 1984 Hist. Storm Analysis)

L = 3300

$V = \frac{3300}{(3600)(.29)} = 3.2$ ft/sec

Subarea #42

$T_c = 0.50$ (Subarea 25, July 1984 Hist Storm Analysis)

L = 5400

$V = \frac{5400}{(3600)(.50)} = 3.0$ ft/sec

Subarea #43

$T_c = 0.51$

L = 7000'

$V = \frac{7000}{(3600)(.51)} = 3.8$ ft/sec

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWRD, REACH 5, Inlet Hydrology		
BY: Hem	DATE: 8/9/85	CHECKED BY: /	DATE: /
SUBJECT: TIMES OF CONCENTRATION			JOB NO. / SHEET ____ OF ____

Subarea # 44

$T_c = 0.59$ hrs. (Subarea # 27A, July 1984 storm)
$L = 7500'$
$V = \frac{7500}{(3600)(.59)} = 3.5$ ft/sec

Subarea # 45
$L = 5800'$
$V = 3.5$ ft/sec (Based on Subarea 44 above)
$T_c = 0.46$ hrs.

Subarea # 46
$L = 9700$
$V = 3.8$ ft/sec (Based on Subarea # 43 above)
$T_c = \frac{9700}{(3600)(3.8)} = 0.71$ hrs

Subarea # 47

$L = 4000'$ $S = (10/1900) = .00526$
$V = \frac{1.486}{.020}(1)(.00526)^{1/2} = 5.4$ ft/sec

$T_c = \frac{4000}{(3600)5.4} = 0.21$ hrs

Subarea # 48
$L = 8900'$
$V = 2.0$ ft/sec
$T_c = \frac{8900}{(3600)(2)} = 1.24$ hrs

COMPUTATION SHEET
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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZONA		RWCD REACH 5, Inlet Hydrology		
BY Hem	DATE 8/5/85	CHECKED BY	DATE	JOB NO.
SUBJECT TIMES OF CONC. FOR YEAR 2000				SHEET ____ OF ____

Subarea No.	Present 1985 CN	YEAR 2000 W/O STOR CN	Present 1985 Tc (hrs)	Modification[1] Factor Based on Change in CN	YEAR 2000 Tc (hrs)
1	82	83 +1	0.59	0.89	0.53
2	79	79 -	0.63	1.00	0.63
3	78	80 +2	0.69	0.84	0.58
4	77	81 +4	0.60	0.74	0.44
5	79	81 +2	0.81	0.84	0.68
6	79	81 +2	1.34	0.84	1.13
7	81	81 -	0.95	1.00	0.95
8	82	83 +1	0.83	0.89	0.74
9	77	80 +3	1.13	0.80	0.90
10	86	88 +2	0.42	0.84	0.35
11	80	82 +2	0.34	0.84	0.29
12	80	87 +7	0.63	0.60	0.38
13	82	85 +3	1.13	0.80	0.90
14	80	85 +5	1.44	0.68	0.98
15	83	89 +6	0.54	0.60	0.32
16	80	88 +8	0.84	0.60	0.50
17	72	88 +6	0.26	0.60	0.16
18	77	89 +12	0.24	0.60	0.14
19	77	89 +12	0.39	0.60	0.23
20	77	85 +8	0.69	0.60	0.41
21	82	87 +5	1.51	0.68	1.03
22	80	87 +7	1.52	0.60	0.91
23	77	88 +11	1.08	0.60	0.65
24	77	88 +11	1.06	0.60	0.64
25	77	88 +11	0.65	0.60	0.39
26	76	84 +8	0.96	0.60	0.58
27	76	88 +12	0.43	0.60	0.26
28	77	88 +11	0.66	0.60	0.40
29	77	87 +10	0.66	0.60	0.40
30	73	87 +14	1.08	0.60	0.65
31A	65	65 -	1.84	1.00	1.84
31B	76	76 -	2.70	1.00	2.70
32	77	77 -	1.85	1.00	1.85
33	77	77 -	3.96	1.00	3.96
34	77	77 -	2.50	1.00	2.50
35	75	75 -	2.10	1.00	2.10
36	77	77 -	0.96	1.00	0.96
37	75	75 -	2.60	1.00	2.60
38	77	77 -	2.66	1.00	2.66
39	65	65 -	0.83	1.00	0.83
40	69	69 -	0.63	1.00	0.63

1] Modification Factor Developed By B Bartels in Original 1974 Analysis as shown in attached Graph and supporting Data, and Agreed to by WATC Hydr. Engrs. Note: The Max Reduction Factor is 0.60 with a CN increase of 6 or greater between Present (1985) and Projected Future (year 2000) conditions.

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5, Inlet Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	8/9/85			
SUBJECT				SHEET ____ OF ____
TIMES OF Conc For year 2000				

Subarea No.	Present 1985 CN	Year 2000 W/o Str CN		Present 1985 Tc (Hrs)	Modification Factor Based on Change in CN	Year 2000 Tc (Hrs)
41	77	77	-	0.29	1.00	0.29
42	77	77	-	0.50	1.00	0.50
43	79	80	+1	0.51	0.89	0.45
44	81	81	-	0.59	1.00	0.59
45	81	82	+1	0.46	0.89	0.41
46	83	83	-	0.71	1.00	0.71
47	82	82	-	0.21	1.00	0.21
48	65	65	-	1.24	1.00	1.24

COMPUTATION SHEET

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Attachment #4

STATE Ark. PROJECT RWCD

BY RMB DATE July 31, 1974 CHECKED BY DATE JOB NO.

SUBJECT Estimate Effect of Urbanization on T_c SHEET 1 OF 3

From Fig 15.3

To Est. effect of Changed RCN

				Portion of Present
Example	3000 ft Long	S = 1.5%		
①	Present RCN = 71	t_{lag} =	0.8 hour	1.00
	" 73	Lag =	0.75 hour	.93
	" 75	Lag =	0.73 hours	.91
	" 77	Lag =	0.69	.86
	" 79	Lag =	0.65	.81
	" 81	Lag =	0.61	.75
⊙ Example #2	5000 ft	2.0%		
	Present RCN = 73	Lag =	1.00	
	Future 75	"	0.93	
	" 77	"	0.86	
	79	"	0.83	
	81	"	0.79	
	83	"	0.72	
× Example #3	2000 ft	S = 1%		
	Present RCN = 71	Lag =	0.71	1.00
	73		0.67	.94
	75		0.64	.90
	77		0.60	.85
	79		0.56	.79
	81		0.53	.75

Attachment #4

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SHEET 2 OF 3

JOB NO.

STATE HCIC

BY RWD

DATE July 31 74

CHECKED BY

DATE

SUBJECT Values to be used in TR-55 program

Effects of increasing curve number because of urbanization based on Fig. 15.3 of NEH 4
July 31, 1974 RW Bartels

Example 1 values — L = 3000 ft s = 1.5%
Example 2 values — L = 5000 ft s = 2.0%
Example 3 values — L = 2000 ft s = 1.0%

Combined effect @ Impervious area included from Urban Hydrology Handbook (Aug 9, 1974 RWB)

Effects of Changing RCN

~~Maximum Reduction to be used~~

Jim Woodward on Trip of Aug 5-8 suggested using Map reduction factor of 0.6 for 6 (CN) Stages
RWB

Value of Q new to Q after urbanization

1.0	
0.9	
0.8	
0.7	
0.6	
0.5	

0 2 4 6 8 10 12

Increase in RCN due to urbanization.

Summary of Hydrological conditions

COMPUTATION SHEET

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE ARIZ PROJECT RWCD Attachment #4

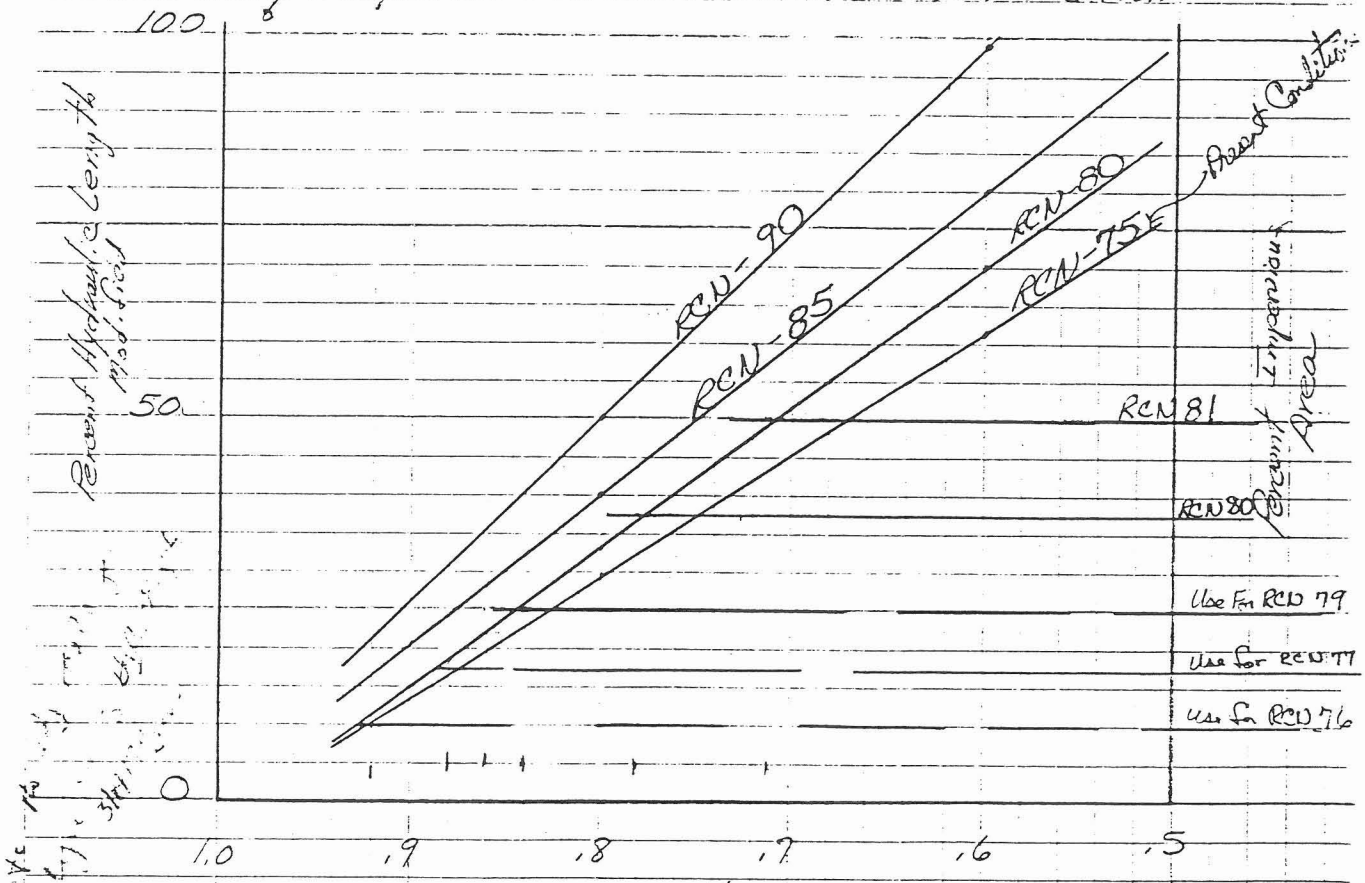
BY RMC DATE Aug 7 1974 CHECKED BY DATE JOB NO.

SUBJECT Effects of urbanization on T_c + Runoff SHEET 3 OF 3

To estimate the effect of urbanization use both Chapter 15 and Urban Hydrology Handbook.

See page 3-7 in Urban Hydrology Handbook

Will use Figure 3-3 to modify values developed by Chapter 15 to show effect of impervious area + channel modification.



Increase in RCN From Urbanization	Chapter 15 Values % of Natl T_c	Effect of Impervious Surface (Urban Hydro)	Combined Effect	Use
0	100	100	100	
1	97	92	89	.90
2	95	88	83.6	.85
3	92	86	79.1	.80
4	89	84	75.0	.75
5	87	78	67.8	.68
6	84	71	59.6	.60

NATIONAL FOREST BOUNDARY
MARICOPA CO
PINAL CO
Apache Junction
Superstition Mtn School
Palm Springs
Larkspur Ranch
Hawk Rock
Desert Well
Anderson Ranch
DESERT PROVING GROUNDS
Double Knolls
Golf Course
Water Tank
Water Tower
Trailer Park
SOUTHERN AVE
FREEWAY
SALT RIVER BASE LINE
QUADRANGLE RD
ELLIOT RD
WARNER RD
RAIL ROAD
ROOSEVELT CANAL
TELEPHONE LINE
DIVERSION DIKE
Weekes Wash
Hewitt Dr
Ironwood Dr
Gilbert Rd
Mesa Corp Limit
Gilbert Rd Alt Align
BM 1360
BM 1346
BM 1343
BM 1389
BM 1490
BM 1376
BM 1421
BM 1790
BM 1759
BM 1687
BM 1636
BM 1550
BM 1434
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BM 1723
BM 1729
BM 1790
BM 1851
BM 1850
BM 1800
BM 1809
BM 1785
BM 1776
BM 1900
BM 1894
BM 1855
BM 1934
BM 1947
BM 2047
BM 2043
RWCD REACH 5
INLET HYDROLOGY
TIMES OF CONC. MAP
7/12/85
Kim

RWCD REACH 5

INLET HYDROLOGY

CURVE NUMBERS

A runoff CN Map was developed and dated 8/1/85. This map shows three (3) curve numbers for each 40 acre sections. The "black" CN are those estimated by Anderson-Nichols for existing or 1985 conditions. The "blue" curve numbers are those estimate by SCS (Millsaps) for 1985 conditions based on curve number proposal for publication in the Revised TR-55. The third set or "red" curve numbers are those estimated by Millsaps for the year 2000 conditions with 1-inch of storage on any new developments occurring between 1985 and the year 2000. The adjustment in curve number due to storage is shown at the bottom of Project Zone on the year 2000 map, i.e. the year 2000 CN W/o Storage was just estimated based on projected land use, and then reduced for 1-inch of storage on that portion of the area developed between 1985 and 2000.

It will be noted that some judgement was used based on photos and knowledge of the area in estimating the future (year 2000, w/1-inch storage) curve number as shown on the CN map. The actual CN reduction assumed is shown on the map by the following symbol: $75\downarrow^{13}$. This means that the CN W/o reduction was estimated at 88 but has been reduced 13 CN due to 1-inch storage

Once the future curve number was estimated for each 40 acres, a weighted CN was then calculated for each subarea. The same method was used in calculating weighted CN's by subarea for Anderson-Nichols' + Milwaukee's present conditions. A table showing the comparisons of these three different CN's by subareas was prepared for information purposes. The curve number designated future conditions year 2000, Rainfall & storage were used to estimate peak discharge-frequency relationships for the design of the side inlet structure for this reach.

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZONA	RWCD REACH 5, Inlet Hydrology		
BY: Hm	DATE: 8/1/85	CHECKED BY:	DATE:
JOB NO.			
SUBJECT: RUNOFF CN COMPARISON		SHEET ____ OF ____	

Subarea No.	SCS-Millsaps' 1985 COND.	Anderson Nichols 1985 Cond.	SCS Millsaps' Year 2000 W/1-inch Stor.	Drainage Area (Mi²)
1	82	84	82	0.29
2	79	83	79	0.38
3	78	83	78	0.51
4	77	83	78	0.33
5	79	84	79	1.25
6	79	84	78	2.44
7	81	85	81	1.60
8	82	85	82	1.48
9	77	83	77	1.30
10	86	86	86	1.04
11	80	84	80	0.15
12	80	84	79	0.65
13	82	85	81	1.30
14	80	84	80	1.38
15	83	85	82	0.85
16	80	84	80	0.89
17	72	83	75	0.11
18	77	83	76	0.14
19	77	83	76	0.20
20	77	83	76	6.68
21	82	85	81	1.87
22	80	86	79	2.20
23	77	84	75	0.49
24	77	84	75	0.79
25	77	83	75	0.21
26	76	80	79	0.94
27	76	83	75	0.44
28	77	83	75	0.38
29	77	83	76	0.70
30	73	81	79	1.79
31A	65	75	65	1.00
31B	76	82	76	1.70
32	77	83	77	1.98
33	77	83	77	2.61
34	77	83	77	3.23
35	75	82	75	1.83
36	77	83	77	2.73
37	75	83	75	2.34
38	77	83	75	1.23
39	65	75	65	0.81
40	69	79	69	0.67
WEIGHTED	77.5	83.1	77.4	46.91
TOTAL AREA	SAY 78	SAY 83	SAY 77	

3635.88 / 46.91

3898.69 / 46.91

3632.43 / 46.91

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U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5, Fnled Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	8/9/85			
SUBJECT				SHEET ____ OF ____
RUNOFF CN COMPARISON				

Subarea No.	SCS-Millsons 1985 Cond	Anderson-Nichols 1985 Cond	SCS Millsons Year 2000 W/1-Inch Stor.	Drainage Area (M,2)
41	77	83	77	0.15
42	77	83	77	0.21
43	79	84	79	0.46
44	81	85	81	0.29
45	81	84	81	0.24
46	83	85	83	0.77
47	82	85	82	0.43

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5, Inlet Hydrology		
BY: Hern	DATE: 8/1/85	CHECKED BY:	DATE:	JOB NO.:
SUBJECT: RUNOFF CURVE NUMBERS FOR			SHEET 1 OF 5

YEAR 2000, W/1-INCH STORAGE ON NEW LANDS Developed Bet. 1985 & 2000. (See map which Gives Esti CN per 40 Acres) Total Area is in a "B" Hyd Soil Group

Subarea No.	% of Area	CN	Weighted CN
1	50	77	
	8	79	82
	42	88	
2	71	77	
	8	79	79
	13	85	
	8	88	
3	12	75	
	75	77	78
	3	81	
	10	88	
4	19	75	
	70	77	78
	7	78	
	5	81	
5	4	75	
	64	77	
	8	79	
	3	81	79
	4	82	
	13	90	
	4	78	
	18	76	
6	65	77	
	1	79	
	3	80	78
	3	81	
	1	88	
	9	90	

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5, Inlet Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Ham	8/1/85			

SUBJECT: RUNOFF CURVE NUMBERS FOR YEAR 2000 — SHEET 2 OF 5

W/1-INCH Storage

Subarea No.	% of Area	CN	Weighted CN
7	58	77	
	4	80	
	9	81	
	10	85	81
	11	88	
	4	90	
	4	92	
8	39	77	
	4	78 90	
	25	81	82
	16	88	
	12	90	
	4	92	
9	1	75	
	95	77	77
	4	88	
10	5	78 90	
	3	79 84	
	17	81	86
	11	85	
	47	88	
	17	92	
11	17	75	
	83	81	80
12	61	75 88	
	15	80	
	5	81	79
	19	88	
13	36	75 88	
	19	80	
	13	81	81
	10	85	
	7	88	
	10	92	
	5	82	

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARK		RWCD REACH 5, Inlet Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	8/11/85			
SUBJECT				SHEET 3 OF 5
RUNOFF CURVE NUMBER FOR Year				

2000 W/1-INCH STORAGE

Subarea No.	% of Area	CN	Weighted CN
14	40	75 88	
	13	80	
	33	81 4% 88	80
	9	88	
	5	92	
15	41	75 88	
	5	78 90	
	12	81 88	82
	22	88	
	20	90	
16	4	65	
	58	75	
	10	76	80
	4	85	
	17	90	
	7	92	
17	100	75	75
18	100	76	76
19	100	76	76
20	68	76	
	32	77	76
21			
	23	75 88	
	20	76 90	
	7	80 3% 88	
	10	81 3% 95	81
	10	82	
	13	88	
	17	90	

COMPUTATION SHEET
SCS–ENG–523 Rev. 8–69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5 INLET HYDROLOGY		
BY: Hem	DATE: 8/1/85	CHECKED BY	DATE	JOB NO.
SUBJECT: CURVE NUMBERS FOR YEAR			SHEET 4 OF 5

2000 W/1-INCH STORAGE

SubArea No.	% of Area	CN	Weighted CN
22	56	75	
	6	76	
	7	81	79
	6	82	
	19	88	
	3	79	
	3	78	
23	100	75	75
24	100	75	75
25	100	75	75
26	40	75	
	60	81	79
27	100	75	75
28	100	75	75
29	91	75	
	9	81	76
30	68	76	
	25	80	79
	7	88	
31A	100	65	65
31B	7	65	
	7	76	76
	86	77	
32	SAME AS 1985 Conditions. See 1985 Data for Calc.		77
33			77
34			77
35			75
36			77
37			75
38			77
39			65
40			69

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT			
ARIZ	RWCD REACH 5, Inlet Hydrology			
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	8/9/85			
SUBJECT				SHEET 5 OF 5
RUNOFF CN'S FOR YEAR 2000				

W/1-INCH STORAGE ON NEW Lands developed Bet 1985 & 2000

Subarea No.	% of Area	CN	Weighted CN
41	100	77	77
42	100	77	77
43	5	75	
	73	77	79
	22	88	
44	62	77	
	38	88	81
45	30	75	
	21	77	
	5	82	81
	27	85	
	17	88	
46	18	75	
	7	78	
	13	81	
	14	82	83
	13	85	
	35	88	
47	100	82	82
48	100	65	65

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZONA	RWCD REACH 5, Inlet Hydrology		
BY: Hem	DATE: 8/5/85	CHECKED BY	DATE	JOB NO.
SUBJECT: RUNOFF CN's FOR YEAR 2000			SHEET 1 OF 4

W/O 1-INCH STORAGE ON NEW LANDS developed Bet. 1985 & 2000

Subarea No.	% of Area	CN	Weighted CN
1	50	77	
	50	88	83
2	71	77	
	8	79	
	13	85	79
	8	88	
3	75	77	
	3	81	80
	22	88	
4	70	77	
	5	81	
	19	88	81
	7	90	
5	64	77	
	3	81	
	20	88	81
	13	90	
6	65	77	
	3	80	
	5	88	81
	18	89	
	9	90	
7	58	77	
	4	80	
	6	81	
	21	88	81
	4	90	
	7	92	
8	39	77	
	13	81	
	16	88	83
	12	89	
	16	90	
	4	92	

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
Ariz	RWCD REACH 5, Inlet Hydrology		
BY: Hem	DATE: 8/5/85	CHECKED BY	DATE	JOB NO.
SUBJECT: Runoff CN's For year 2000 w/o 1-inch stor			SHEET 2 OF 4

Subarea No.	% of Area	CN	Weighted CN
9	35	77	
	60	81	80
	5	88	
10	12	81	
	11	85	
	50	88	88
	10	90	
	17	92	
11	83	81	
	17	88	82
12	10	80	
	5	81	
	5	84	87
	80	88	
13	16	80	
	13	81	
	3	84	
	10	85	85
	43	88	
	10	92	
	5	82	
14	13	80	
	29	81	
	53	88	85
	5	92	
15	75	88	
	25	90	89
16	4	65	
	4	85	
	58	88	
	10	89	88
	17	90	
	7	92	

SCS-ENG-523 Rev. 8-69

SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5, Inlet Hydrology		
BY Hm / DATE 8/5/85	CHECKED BY	DATE	JOB NO.
SUBJECT Runoff CN's for Year 2000 w/o 1-inch Stor			SHEET 3 OF 4

Subarea No.	% of Area	CN	Weighted CN
17	100	88	88
18	100	89	89
19	100	89	89
20	68	89	
	32	77	85
21	4	80	
	7	81	
	10	82	
	36	88	87
	23	89	
	17	90	
	3	95	
22	7	81	
	6	82	
	75	88	87
	6	89	
	3	90	
	3	92	
23	100	88	88
24	100	88	88
25	100	88	88
26	60	81	
	40	88	84
27	100	88	88
28	100	88	88
29	9	81	
	91	88	87
30	25	80	
	7	88	87
	68	89	

Note For 31A, 31B 32, 33, 34, 35, 36 37, 38, 39 & 40 CN's w/o Stor Cond.'s are the Same as w/ stor. Cond.'s since there is no development proposed for these areas.

SCS-ENG-523 Rev. 8-69

SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5, Inlet Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Ham	8/9/85			
SUBJECT				SHEET 4 OF 4
RUNOFF CN'S FOR YEAR 2000				

W/O 1-INCH Storage on NEW Land developed Bet 1985 & 2000

Subarea No.	% of Area	CN	Weighted CN
41	100	77	77
42	100	77	77
43	73	77	
	27	88	80
44	62	77	
	38	88	81
45	21	77	
	5	82	
	27	85	82
	47	88	
46	14	82	
	13	85	
	66	88	87
	7	90	
47	100	82	82
48	100	65	65

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5 INLET HYDROLOGY		
BY: Hem	DATE: 7/22/85	CHECKED BY	DATE	JOB NO.
SUBJECT: RUNOFF CURVE NUMBERS FOR			SHEET 1 OF 5

PRESENT 1985 CONDITIONS (SEE MAP which Gives EST. CN per each 40 Acres, which Follows) Note all Soils are B-Soils

1984 Used Subarea No	Subarea No.	% of Area	CN	Weighted CN	
27	1	58	77		Mt Desert Lands
		42	88	82	74 Industrial
28	2	79	77		
		13	85	79	74 1/8 AC Res.
		8	88		
29	3	87	77		
		3	81	78	74
		10	88		
30	4	95	77		
		5	81	77	75
31 78	5	84	77		
		3	81	79	74
		13	90		
3	6	84	77		
		3	80		
		3	85	79	74
		1	88		
		9	90		
	7	58	77		
		6	80		
		10	81		
		4	85	81	
		14	88		
		4	90		
		4	92		
	8	43	77		
		8	80		
		17	81		
		16	88	82	
		12	90		
		4	92		

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5 INLET HYDROLOGY		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	7/24/85			
SUBJECT				SHEET 2 OF 5
RUNOFF CURVE NUMBERS FOR PRESENT 1985 CONDITIONS.				

Subarea No.	% of Area	CN	Weighted CN
9	96	77	
	4	88	77
10	8	77	
	17	81	
	11	85	86
	47	88	
	17	92	
11	17	77	
	83	81	80
12	66	77	
	10	80	
	5	81	80
	19	88	
13	37	77	
	18	80	
	13	81	82
	5	82	
	7	88	
	10	92	
	10	85	
14	40	77	
	13	80	
	33	81	80
	9	88	
	5	92	
15	46	77	
	22	88	83
	20	90	
	12	81	
16	4	65	
	68	77	80
	4	85	
	17	90	
	7	92	

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5, INLET Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Ham	7/22/85			
SUBJECT				SHEET 3 OF 5
RUNOFF CURVE NUMBER FOR				

PRESENT 1985 CONDITIONS

Subarea No.	% OF AREA	CN	WEIGHTED CN
17	43	65	
	57	77	72
18	100	77	77
19	100	77	77
20	100	77	77
21	50	77	
	3	80	
	7	81	82
	10	82	
	13	88	
	17	90	
22	58	77	
	11	81	
	6	82	80
	6	85	
	19	88	
23	100	77	77
24	100	77	77
25	100	77	77
26	27	65	
	13	77	76
	60	81	
27	9	65	
	91	77	76
28	100	77	77
29	91	77	
	9	81	77

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5, INLET HYDROLOGY		
BY Hem	DATE 7/22/85	CHECKED BY	DATE	JOB NO.
SUBJECT RUNOFF CURVE NUMBERS FOR				SHEET 4 OF 5

PRESENT 1985 CONDITIONS

Subarea NO.	% OF AREA	CN	WEIGHTED CN
30	44	65	73
	24	77	
	25	80	
	7	88	
31A	100	65	65
31B	7	65	76
	93	77	
32	100	77	77
33	100	77	77
34	100	77	77
35	17	65	75
	4	72	
	79	77	
36	9	72	77
	90	77	
	1	90	
37	11	65	75
	11	72	
	78	77	
38	100	77	77
39	100	65	65
40	65	65	69
	35	77	

SCS-ENG-523 Rev. 8-69

SOIL CONSERVATION SERVICE

STATE		PROJECT		
Ariz		RWCD REACH 5, INLET Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	8/9/83			
SUBJECT				SHEET 5 OF 5
Runoff CN's For Present 1985 Conditions.				

Subarea No.	% of Area	CN	Weighted CN
41	100	77	77
42	100	77	77
43	78	77	
	22	88	79
44	62	77	
	38	88	81
45	51	77	
	5	82	
	27	85	81
	17	88	
46	38	77	
	14	82	
	13	85	83
	35	88	
47	100	82	82
48	100	65	65

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5, Inlet Hydrology		
BY: Kem	DATE: 8/1/85	CHECKED BY	DATE	JOB NO.
SUBJECT: RUNOFF CN'S Based on Anderson-Nichols ESTD for 1985 Condition Per 40 Ac Tract (See map)			SHEET 1 OF 5

Subarea No	% of Area	CN	Weighted CN
1	76	83	
	5	86	84
	19	87	
2	88	83	
	12	86	83
3	91	83	
	9	87	83
4	95	83	
	5	87	83
5	87	83	
	13	88	84
6	82	83	
	5	86	84
	13	88	
7	67	83	
	8	86	85
	21	88	
	4	91	
8	70	83	
	17	88	85
	10	89	
	3	91	
9	96	83	
	4	88	83
10	33	83	
	5	84	
	6	86	
	15	87	86
	24	88	
	17	91	

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5 Inlet Hydrology		
BY: Hem	DATE: 8/1/85	CHECKED BY:	DATE:
JOB NO.			
SUBJECT: ANDERSON-NICHOLS RUNOFF CN'S		SHEET 2 OF 5	

FOR 1985 Conditions

Subarea No.	% OF Area	CN	Weighted CN
11	79	83	
	21	86	84
12	75	83	
	6	86	84
	19	88	
13	49	83	
	31	86	
	10	88	85
	10	91	
14	70	83	
	14	86	84
	9	87	
	5	91	
15	54	83	
	39	88	85
	7	89	
16	75	83	
	4	86	84
	14	88	
	7	91	
17	100	83	83
18	100	83	83
19	100	83	83
20	100	83	83
21	52	83	
	3	84	
	10	85	85
	3	86	
	32	88	

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
Ariz		RWCD REACH 5, Tinlet Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	8/1/85			
SUBJECT				SHEET 3 OF 5
Anderson - Nichols Runoff CN's				

For 1985 conditions

Subarea No.	% of Area	CN	Weighted CN
22	62	83	
	3	84	
	3	85	86
	14	86	
	6	87	
	14	88	
23	88	83	
	12	89	84
24	89	83	
	11	89	84
25	100	83	83
26	52	75	
	22	83	80
	26	86	
27	100	83	83
28	100	83	83
29	100	83	83
30	41	75	
	28	83	81
	24	86	
	7	88	
31A	6	70	
	94	75	75
31B	7	75	
	93	83	82
32	94	83	
	6	84	83

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5, Inlet Hydrology		
BY: Ham	DATE: 8/1/85	CHECKED BY	DATE	JOB NO.
SUBJECT: Anderson-Nichols Runoff CN'S			SHEET 4 OF 5

For 1985 Conditions

Subarea No.	% OF Area	CN	Weighted CN
33	95	83	
	5	84	83
34	100	83	83
35	17	75	
	83	83	82
36	100	83	83
37	5	75	
	95	83	83
38	100	83	83
39	100	75	75
40	65	75	
	35	83	79

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5, Inlet Hydrology		
BY: Hem	DATE: 8/12/85	CHECKED BY	DATE	JOB NO.
SUBJECT: RUNOFF CN's Based on			SHEET 5 OF 5

Anderson - Nichols Estl. for 1985 Condition per 40-Acre tract. (See map)

Subarea No.	% of Area	CN	Weighted CN
41	100	83	83
42	100	83	83
43	78	83	
	22	87	84
44	62	83	
	38	87	85
45	58	83	
	5	85	
	27	86	84
	10	87	
46	42	83	
	18	85	
	8	86	85
	16	87	
	16	88	
47	100	85	85

MASTER DRAINAGE PLAN
FOR EASTERN MARICOPA COUNTY

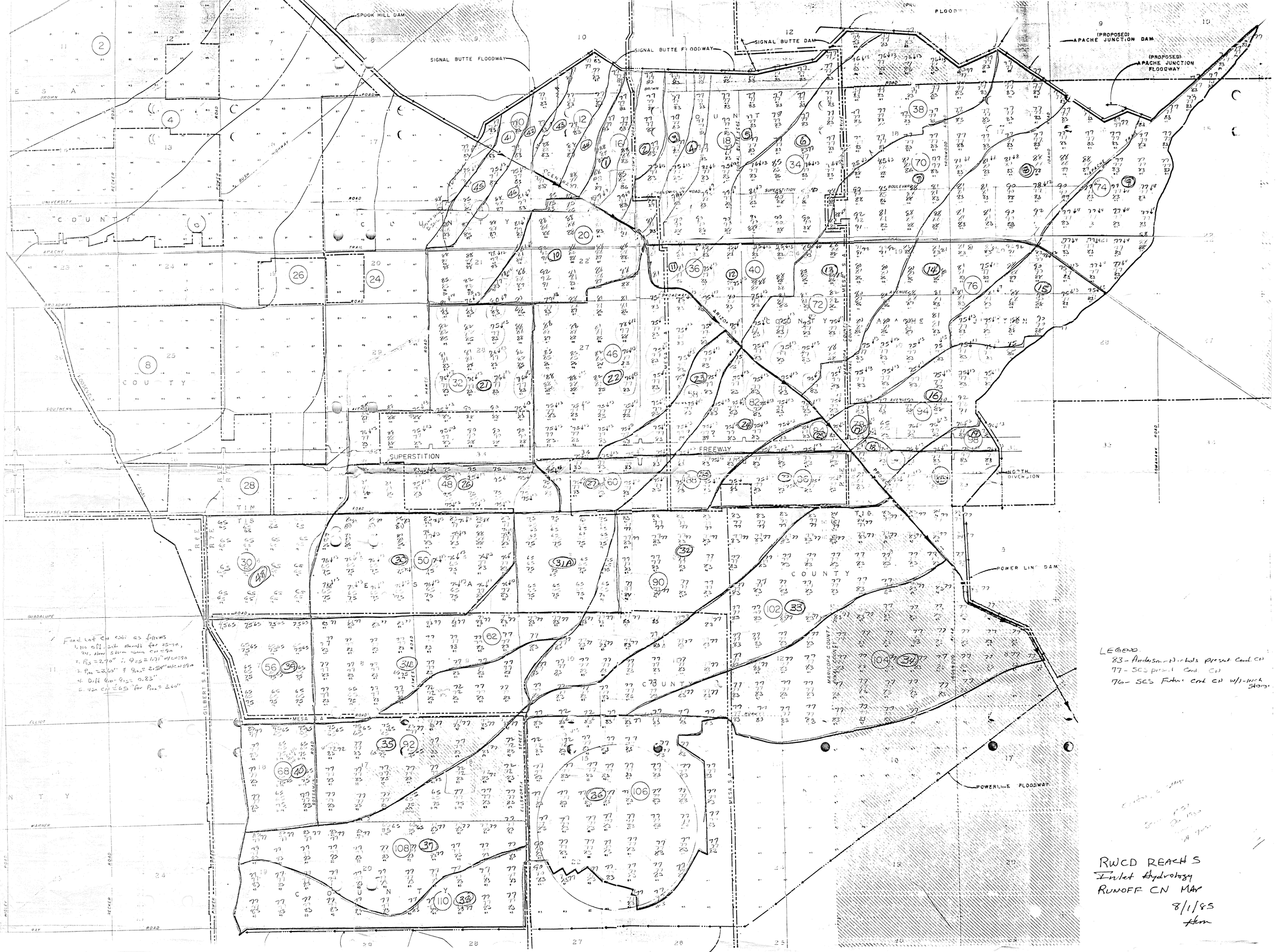
Anderson-Nichols Job No. 4458

SCS Curve Numbers by Zoning and Soil Type

	Zoning	Type 'B' Soil				Type 'C' Soil	Type 'D' Soil		
	Natural Desert	83	77	77	75	89	92		
	Desert Golf Course	83	77	77	75	89	92		
5	R1-190 4.4 Ac 145/Mi²	83	77	77	75	89	92		
3	R1-130 3 Ac 213/Mi²	83	79	77	75	89	92		
2	R1-70 [illegible]	83	80	77	[illegible]	89	92	[illegible]	[illegible]
1	R1-43 [illegible] Ac 640/Mi²	83	81	77	77	89	93	90	87
3/4	R1-35 0.7 Ac 800/Mi²	84	81	77	79	90	93	90	88
1/2	R1-18 0.4 Ac 1600/Mi²	85	82	78	80	90	93	91	89
	R1-10 0.2 Ac 2900/Mi²	86	85	80	81	91	93	92	90
	R1-8		88	84					
1/2	R1-7 0.16 Ac 4000/Mi²	87	90	88	81	91	93	[illegible]	94
	R1-5 [illegible]		90	88					
	Mobile Homes	88	90	88	—	91	93	Natural Desert	Lawns
	Multi-Family	89	90	88	—	92	94		
	Commercial	91	95	94	—	94	95		
	Industrial	91	92	90	—	94	95		
	Golf Courses/Parks/Lawns	70	69	69	—	75	80		
	Orchards	75	50	50	50	80	85		

Proposed TR-55 1985 Natural Desert — TR-55 1985 Grass Fair Lawns — Bartels 1975

Artificial Landscape — 94
Assuming 1/4 Ac
Assuming 1/2-inch sim.

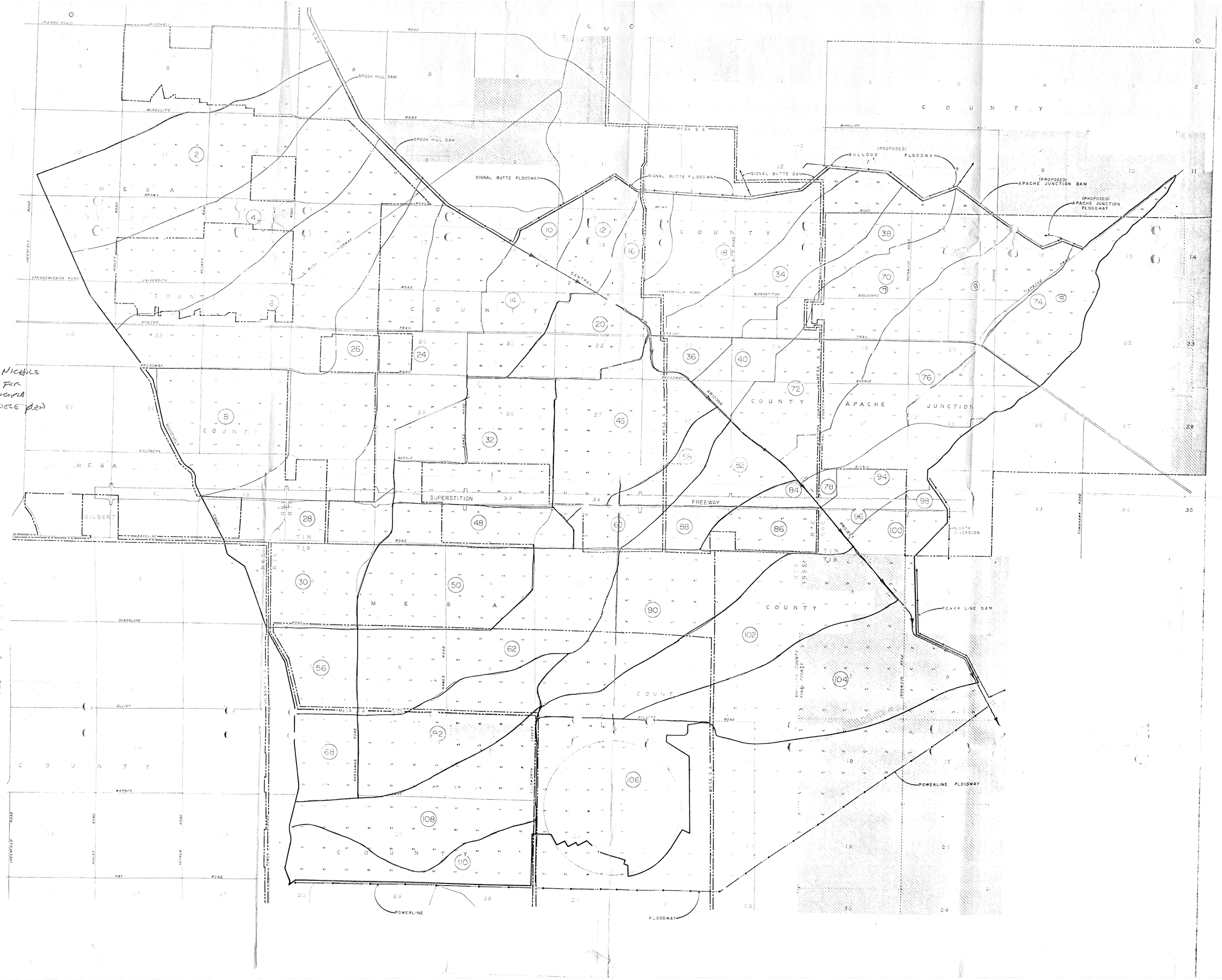


LEGEND
83 - Anderson-Nichols Present Cond. CN
77 - SCS present Cond. CN
76 - SCS Future Cond CN w/1-inch storage

RWCD REACH 5
Inlet Hydrology
RUNOFF CN MAP
8/1/85

RWCD, REACH 6
INLET HYDROLOGY
PROJECTED LAND USE
YEAR 2005
BASED ON LAND USE ZONES SHOWN ON LANDSAT AERIAL PHOTOS DATED DEC. 1983 & 1984
7/31/85
TOTAL AREA IN "B" HYD. SOIL GROUP
ZONES
CN'S
R-5 90 88 78 75
R-6 89 86 76 72
RI-8 88 84 75 70
C-3 95 94 80
RURAL 43 77 77 70
NOTE: RI-NUMBER DESIGNATES THE 1000'S OF SQ. FT. PER LOT.
DESERT PROVING GROUNDS
DIVERSION DIKE
Desert Well
Anderson Ranch
Superstition Mtn School
Palm Springs
Larkspur Ranch
Apache Junction
Hawk Rock
Siphon
Weekes
MARICOPA CO.
PINAL CO.
NATIONAL FOREST BOUNDARY
APACHE
QUADA
ELLIOT RD.
WARNER RD.
RAY ROAD
POWERS
ROOSEVELT
SOSSAMAN ROAD
SALT RIVER BASE AND MERIDIAN
SALT RIVER
TRAILER PARK
GOLF COURSE
FREEWAY
TELEPHONE
CANAL
MESA
Rural 43
Feed Lot
Agric
MHP
GR
C-3
R-5
R-6
RI-8
RI-35

ANDERSON NICHOLS
CN-MAP FOR
EAST MARICOPA
MASTER DRAINAGE PLAN



COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ.		RWCD Reach 5, Inlet Hydrology		
BY Hem	DATE 8/14/85	CHECKED BY	DATE	JOB NO.
SUBJECT AREAL PRECIPITATION				SHEET ____ OF ____

The Net Drainage area for the Study Reach is Approximately 50 sq. miles. Therefore Based on Areal Reduction curve used in the 1974 a ratio of 0.90 was used to Esti Rainfall Amount as Follows.

Freq (yrs)	Point Rainfall	Modification Factor	Areal Rainfall
100	3.70	0.90	3.30
25	2.80	0.90	2.50
10	2.20	0.90	2.00

ARIZONA RWCL

RM Bartes Aug 21, 74

Prec. For 1974 Analy. (Breakdown) 1 3

Will place precipitation starting in the upper portion of the watershed, - X sec 3 and continue on through sub watershed 172 in the lower ~~[illegible]~~ portion of the watershed.

Try to place as close as possible to Jim Malones area reduction curve. However, will try to have Average Prec for total watershed at outlet equal % of point called for on Areal Reduction Curve.

From PAGE 1 of Several discussion. Item 2

TOTAL Sq. Mile	Intervening Sq Mi	Intervening P (% of Point)	Avg Prec. for Total Watershed % of Point
1	1	100	100
5	4	96.2	97
25	20	91.9	93
55	30	87.6	90
95	40	82.8	87
150	55	78.8	84
220	70	77.6	82
300	80	74.5	80
385	85	71.0	78

	WATERSHED No	Int D.A	Total DA	Int. P % of Point		TOTAL P % of Point	
Upper Portion	3	3.00	3.00	Use 97		97	
	8	2.58	5.58	Use 97		97	541.26
	12	1.58	7.16	Use 92			
	17	1.42	8.58	Use 92			
	20	1.32	9.90	Use 92			
	29	1.33	11.23	Use 92			
	33	0.85	12.08	Use 92			
	39	0.63	12.71	Use 92			
	42	0.63	13.34	Use 92			
	48	1.13	14.47	Use 92			
	51	0.81	15.28	Use 92			
	57	1.20	16.48	Use 92			
	64	1.27	17.75	Use 92			
	68	1.56	19.31	Use 92			
	75	1.48	20.79	Use 92			
	80	3.12	23.91	Use 92	(1774.68)		
	~~84~~	0.96	24.87	Use 92	(19.29)(92)	93.8	

AR12 RWCD

RM Bartels Aug 21, 1974

Prec for 1974 Analysis

2 3

	Watershed No	Int D.A sq mi	TOTAL DA sq mi.	Int Pr % of Point	Ave P on Total Watershed % of Point
			24.87		
Upper Portion (Cont)	89	0.67	25.54	Use 87	
	92	1.57	27.11		
	95	1.28	28.39		
	99	1.06	29.45		
	107	1.63	31.08		
	113	1.63	32.71		
	116	1.04	33.75		
	120	2.69	36.44		
	122	0.97	37.41		
	128	1.05	38.46		
	133	1.71	40.17		
	138	3.60	43.77		
	143	6.47	50.24		
	147	0.95	51.19		
	150	2.55	53.74	(2626.53)	
	152	1.32	55.06	(30.19)(87)	90.3
	156	0.50	55.56	Use 82.5	
	159	2.31	57.87		
	160	1.11	58.98		
	163	1.06	60.04		
	165	2.54	62.58		
	168	0.57	63.15		
	170	1.28	64.43		
	171	2.12	66.55		
	174	1.66	68.21		
	178	0.64	68.85		
	180	1.71	70.56		
	183	0.52	71.08		
Lower Portion →	3	1.00	72.08		
	6	2.97	75.05		
	7	9.48	84.53		
	10	0.99	85.52		
	13	3.70	89.22		
	16	2.90	92.12		
	18	1.25	93.37		
	19	2.05	95.42		
	22	3.20	98.62		
	27	0.58	99.20		
	30	0.41	99.61		
	33	0.54	100.15	(44.59)(82.5) = 3678.6	86.1

Total 2621.07

RWCD

RMB 8/21/74

Prec for 1974 Analysis

3 3

	Watershed No	Int. D.A	Total DA	Int P % of Point	Avg P on Total Watershed % of Point
			100.15	(Total Carry 2621.07)	
Lower Portion (Cont.)	40	1.56	101.71	Use 79	
	42	6.11	107.82		
	45	3.60	111.42		
	47	4.68	116.10		
	49	0.72	116.22		
	53	5.25	122.07		
	52	3.07	125.14		
	59	0.67	125.82		
	62	5.92	131.76		
	66	1.03	132.79		
	117	15.90	148.69		
	120	4.70	153.39	Total = 12,257.02 (53.24)(79) (4205.95)	83.6
	139	7.90	161.29	Use 77.5	
	141	9.00	170.29		
	146	16.60	186.29		
	150	6.00	192.29		
	153	3.90	196.79		
	155	13.90	210.69		
	158	8.30	218.99	Total = 17,911.02 (65.6)(77.5) 5084.0	81.8
	160	2.60	221.59	Use 75.0	
	165	16.50	238.09		
	169	13.80	251.89		
	172	5.00	256.89	~~Total~~ 37.9(75) 2842.5	80.8

Total = 20,753.5

ARIZONA , RWCD

RMB Aug 21, 74

DESIGN STORMS For Alt 1 to 3

POINT RAINFALLS (24 hour)

1%	3.70 inch
4%	2.80 inch
10%	2.20 inch

VALUES FOR EXECUTIVE CONTROL

	X Section From	X Section to	(1% Point)	(Mod Factor)	Design 1%	4% Point	(Factor)	4% Design
Upper Portion	003	011	3.70	(.97)	3.6	2.80	(.97)	2.70
	012	086	3.70	(.92)	3.4		(.92)	2.60
	089	155	3.70	(.87)	3.2		(.87)	2.45
	156	186	3.70	(.825)	3.05		(.825)	2.30
Lower Portion	003	039	3.70	(.825)	3.05		(.825)	2.30
	040	122	3.70	(.79)	2.90		(.79)	2.20
	139	159	3.70	(.775)	2.85		(.775)	2.15
	160	173	3.70	(.75)	2.80		(.75)	2.10

	From	To	10% Point	Factor	Design 10%
Upper	003	011	2.20	.97	2.15
	012	086		.92	2.00
	089	155		.87	1.90
	156	186		.825	1.80
Lower	003	039		.825	1.80
	040	122		.79	1.75
	139	159		.775	1.70
	160	173		.75	1.65

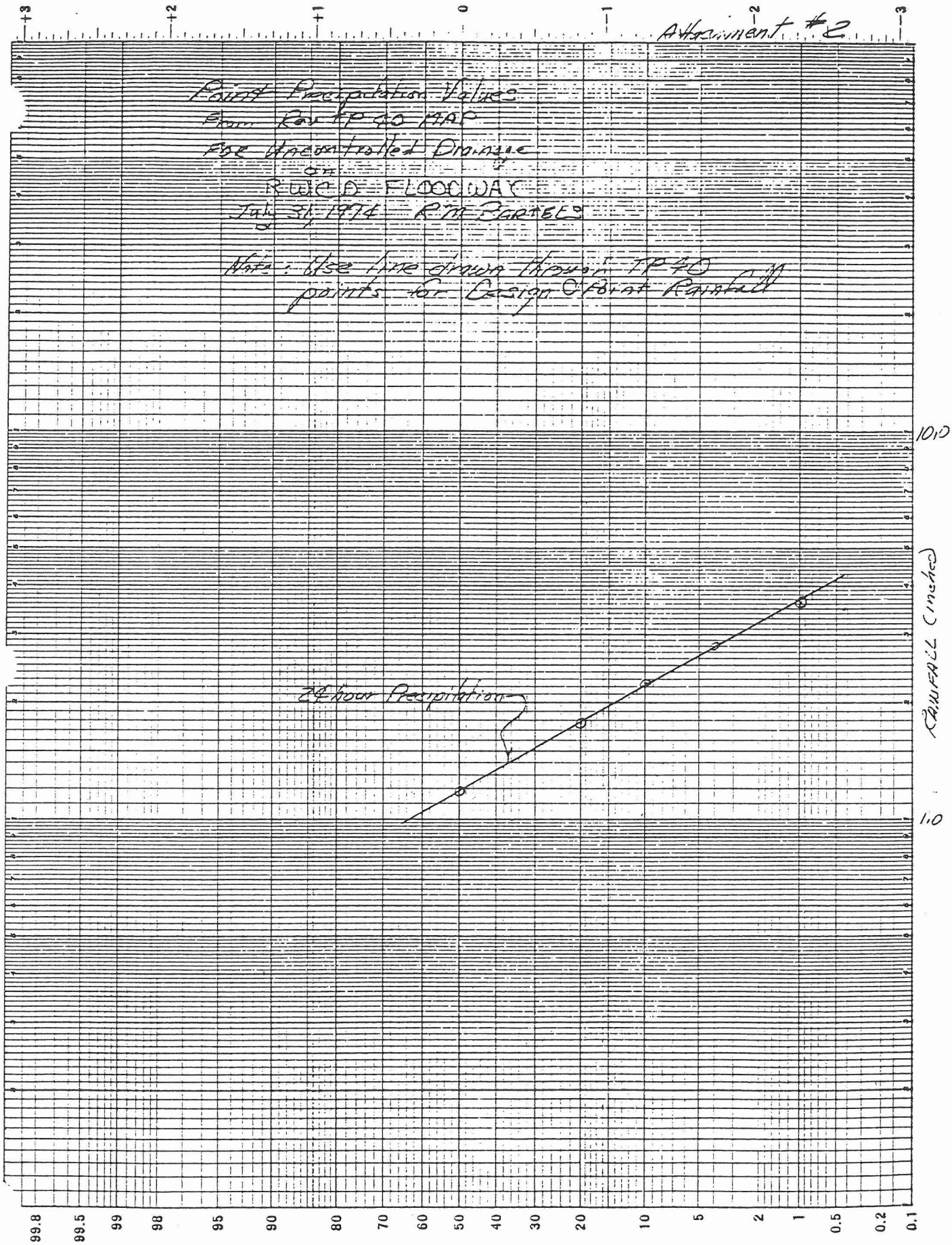
Revised No by Field 300 to 322 No

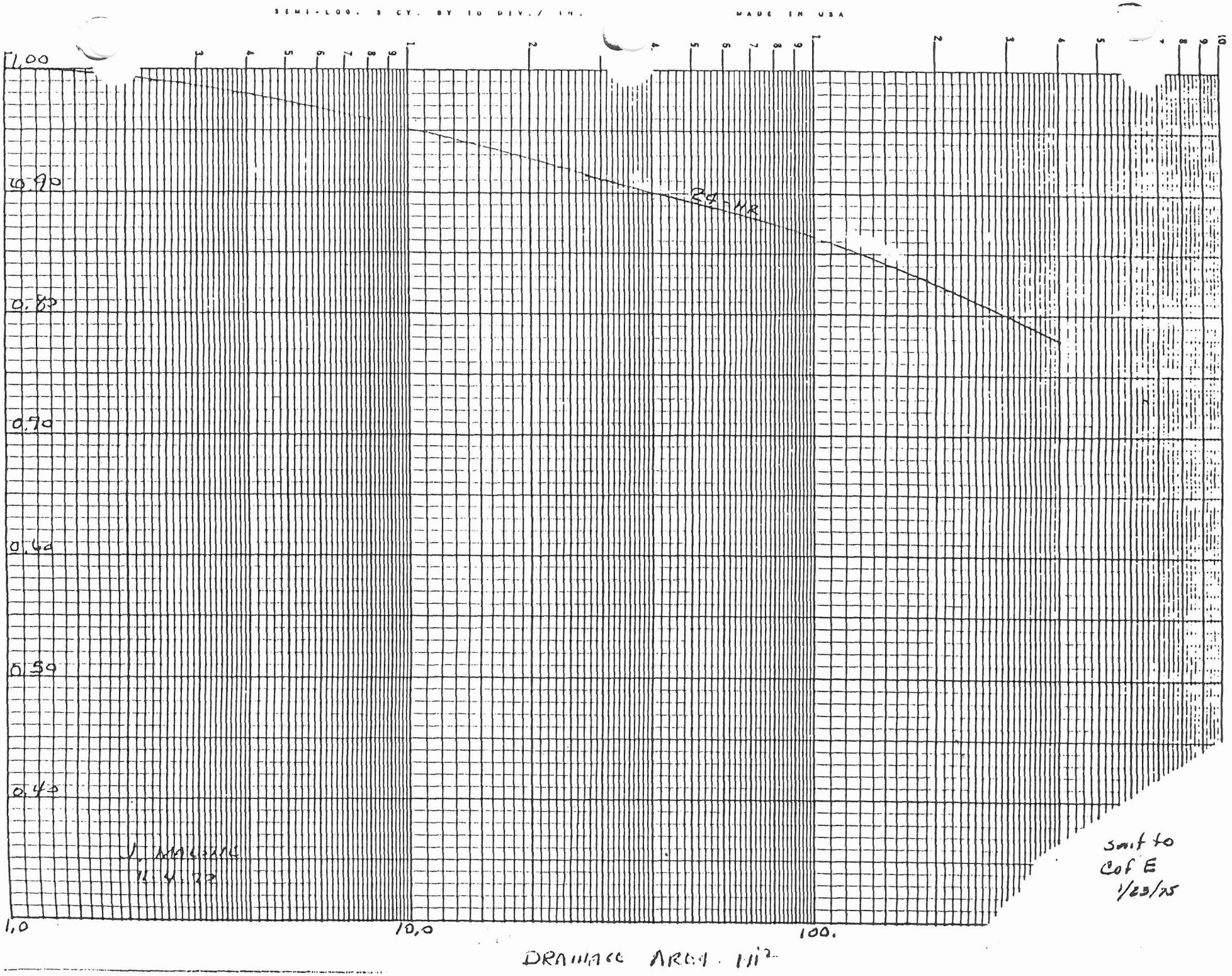
333 to 339
340 to 422
439 to 459
460 to 473

Attachment #2

Point Precipitation Values
From Rev TP 40 MAP
For Uncontrolled Drainage
on
RWCD FLOODWAY
July 31, 1974 RM Bartels

Note: Use line drawn through TP 40 points for Design 24 hour Rainfall




SEMI-LOG. 3 CY. BY 10 DIV./ IN.
MADE IN USA
1.00
0.90
0.80
0.70
0.60
0.50
0.40
24-HR
J. MALONE
1.4.78
1.0
10.0
100.
DRAINAGE AREA - MI²
Sent to
Cof E
1/23/75

AR12 RWCD REACH 5

~~Hem~~ 9/24/85

DIVISION of FLOW @ Broadway Rd (8th St)
& North-South Flood Chan @ Howes Rd Alignment

Given: CS-12 & CS-13 Chan Capacities Average about Q=200 CFS @ D=2.0 And Q=500 CFS @ D=4.0, i.e. All flow equal to or less than 500 CFS will flow South along Flood Chan.

Assume: Flows exceeding Flood Chan Capacity will be divided equally between flows to the South and flow to the West, as typical as calculated and used in Reach 6 for division of flows.

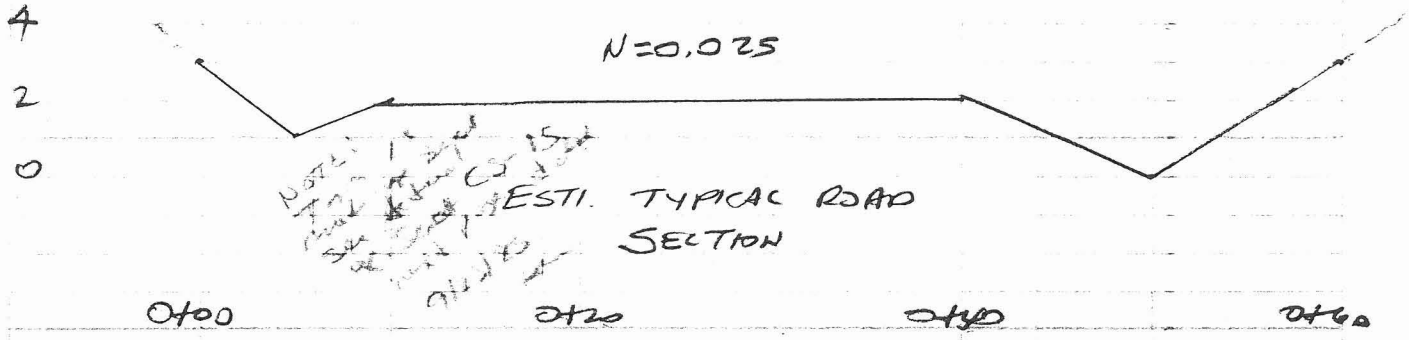
Therefore STAGE DISC for VS-102 and 152 would be as follows:

STAGE (FT)	Discharge @ VS-102 (CFS)	Discharge @ VS-152 (CFS)	TOTAL Q (CFS)
0	0	0	0
2	200	0	200
4	500	0	500
4.5	575.	75.	650.
5.0	625.	185.	870.
5.5	960.	460.	1420
6.0	1245.	745.	1990.
6.5	1580.	1080.	2660
7.0	1960.	1460.	3420.

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZONA	RWCD REACH 5, Inlet Hydrology		
BY Hem	DATE 8/27/85	CHECKED BY	DATE	JOB NO.
SUBJECT ESTI. FLOW CAPACITY ALONG SOSSAMAN ROAD Bet Quadalupe Rd & ELLIOTT RD			SHEET ____ OF ____



(D=3) $A = (\frac{8}{2})1 + \frac{16}{2}(2) + (\frac{54+60}{2})(1) = 77^{\square'}$

$R = 77/61 = 1.26$ $S = 10/2500 = .004$

$V = \frac{1.486}{.025}(1.26)^{2/3}(.004)^{1/2} = 4.38$

$Q = (77)(4.38) = 337$ CFS

D=4' $A = 77 + (\frac{60+64}{2})(1) = 139$

$R = \frac{139}{65} = 2.14$

$V = \frac{1.486}{.025}(2.14)^{2/3}(.004)^{1/2} = 6.24$

$Q = (139)(6.24) = 867$ CFS

BET. ELLIOTT RD & WARNER RD.

Assume same X-Sect as above but with change in slope

$S = 4/4500 = .0009$

@ D=4' $V = \frac{1.486}{.025}(2.14)^{2/3}(.0009)^{1/2} = 2.94$

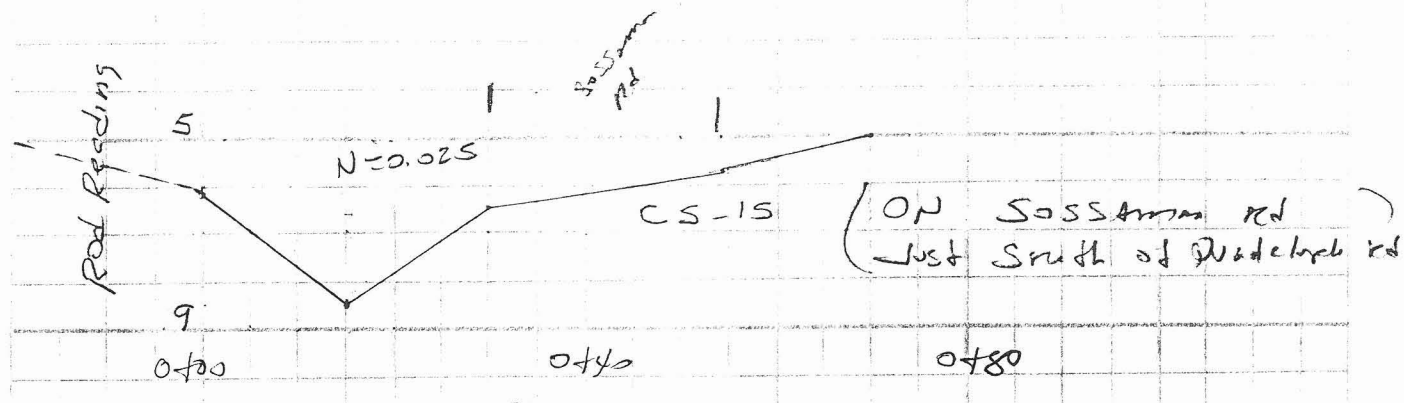
$Q = (139)(2.94) = 409$ CFS

ARIZ RWCD REACH-5, Failed Hyd

Hem 9/23/85

Flood Channel Capacities

Sossaman Rd South of Guadalupe Rd



$D = 3.5'$ $A = \frac{28}{2}(2) + \frac{16+90}{2}(1.4) = 104$ $S = 10/2500 = .004$

$WP = 90$

$R = 104/90 = 1.16$

$V = \frac{1.486}{0.025}(1.16)^{2/3}(.004)^{1/2} = 4.13$

$Q = (104)(4.13) = 430$ CFS

$D = 2.0'$ $WP = 28'$

$A = \frac{28}{2}(2) = 28'$

$R = 28/28 = 1$

$V = \frac{1.486}{.025}(1)^{2/3}(.004)^{1/2} = 3.8$

$Q = (28)(3.8) = 105$ CFS

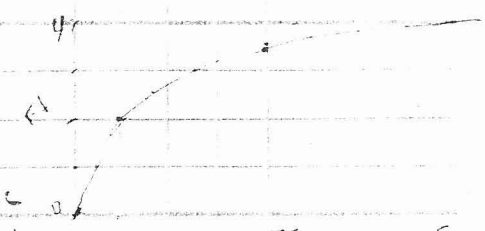
$D = 4.5'$ $A = 104 + (90)(.5) = 194$

$R = 194/90 = 2.16$

$V = \frac{1.486}{.025}(2.16)^{2/3}(.004)^{1/2} = 6.27$

$Q = (6.27)(194) = 1216$ CFS

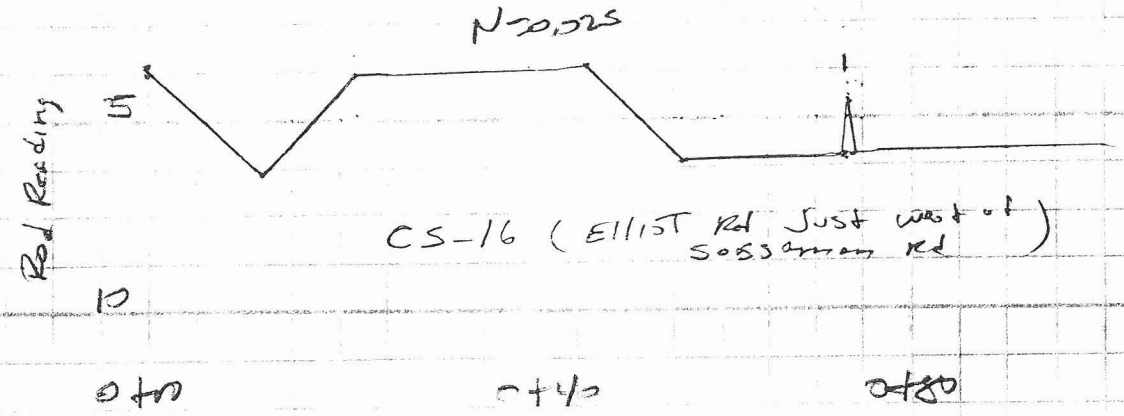
STAGE (FT)	VS-124 (CFS)	VS-123 (CFS)	TOTAL (CFS)
0	0	0	0
2.0	100	0	100
3.0	250	0	250
3.5	400	100	500
4.0	800	400	1200
4.5	1200	600	1800
5.0	1600	800	2400



ARIZ RWCD REACHS

~~Hm~~ 5/23/85

Flood Channel Capacities



$D = 2.2$ $\quad A = \frac{22}{2}(2.2) + \frac{15+27}{2}(1.9) = 65.9$ (24.2, 41.7)

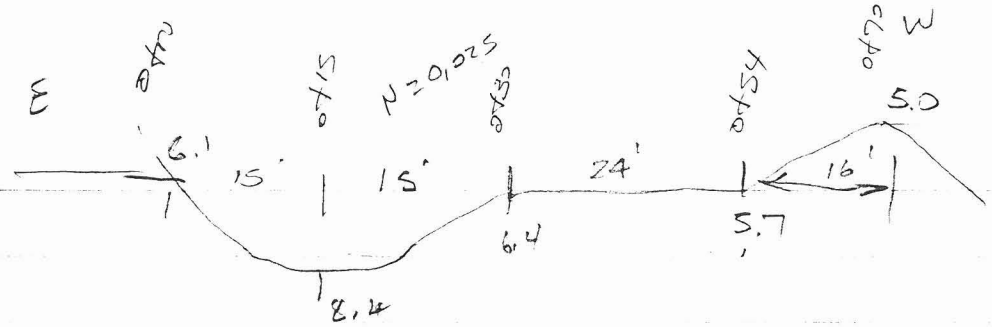
$L = 50$ $\quad S = \frac{10}{16000} = .00625$

$R = \frac{65.9}{50} = 1.32$

$V = \frac{1.486}{.025}(1.32)^{2/3}(.00625)^{1/2} = 5.66$ (1.10, .0791)

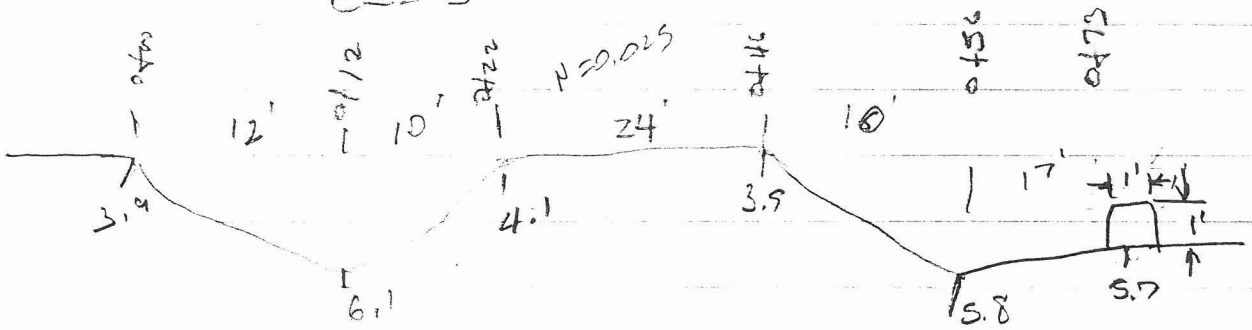
$Q = 65.9(5.66) = 373$

9/23/85
Ken



Sossaman Rd just S of Durlston Rd

CS-15



Elliot Rd just W of Sossaman

CS-14

AR12 RWCD REACH 5, Inlet Hyd

Hm 10/9/85

Flood Channel Capacities

Sossaman Rd NR Warner Rd.

Use same cross sections as surveyed for Sossaman Rd nr Quadalupe Rd, but modify slope.

VS-130: Slope nr Quadalupe = 0.004 (See attached sheet)

VS-124: Slope nr. Warner Rd = 4/4500 = .0009

Stage (ft)	Q 3] VS-124 (CFS)	Q 1] VS-130 (CFS)	Q 2] VS-129 (CFS)	TOT. Q VS-129+130 (CFS)
0	0	0	0	0
2.0	100	50	0	50
3.0	250	125	0	125
3.5	400	200	0	200
4.0	800	400	0	400
4.5	1200	600	150	750
5.0	1600	800	250	1050
5.5	2400	1200	550	1750
6.0	2200	1600	800	2400

1] $Q_{130} = Q_{124}\left(\frac{.0009}{.004}\right)^{1/2} = Q_{124}(0.47)$ Use $0.5(Q_{124})$

2] Based on 40% of overland flow going to the West.

3] See attached sheet

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZONA		RWCD REACH 5, Inlet Hydrology		
BY Hem	DATE 8/22/85	CHECKED BY	DATE	JOB NO.
SUBJECT Est. Stage-Discharge-Storage Relationship				SHEET ____ OF ____

For General Motors Proving Grounds (Subarea # 36)

Based on Field Reconnaissance, the only known points of Discharge from the Proving Grounds are from four (4)-24-Inch CMP; 2-located about 1000' north of Warner Road, and 2-located about 700 to 800 feet South on Warner Rd through the Sight Barrier paralleling Ellsworth Road. Following is an estimate of Stag-Disc Relationship based on Inlet control using Exhibit 14-9, NEH-4 dated Aug 1972.

STAGE	HW/D	Q 1) Single Pipe CFS	Q 4-Pipes CFS	Acc 2) Volume Ac-Ft
0	0	0	0	0
1.0	0.5	4	16	2
2.0	1.0	13	52	8
3.0	1.5	20	80	25
4.0	2.0	26	104	48
5.0	2.5	30	120	77
6.0	3.0	35	140	114
7.0	3.5	40	160	158

1) Assume Headwall 2) See plotting on next sheet

Elev. 1395

4.25	4.34	
4.16	4.25	= 8 Ac
0.09	.09	

Elev 1400

4.91	5.48	0.57 x 91,827 = 52 Ac
4.34	4.91	
0.57	0.57	

Elev	Stage	END Area (Ac)	AVG END Area (Ac)	Δ Elev (ft)	Δ Vol	Acc Volume (Ac-Ft)
1393	0	0				0
			4	2	8	
1395	2	8				8
			30	5	150	
1400	7	52				158

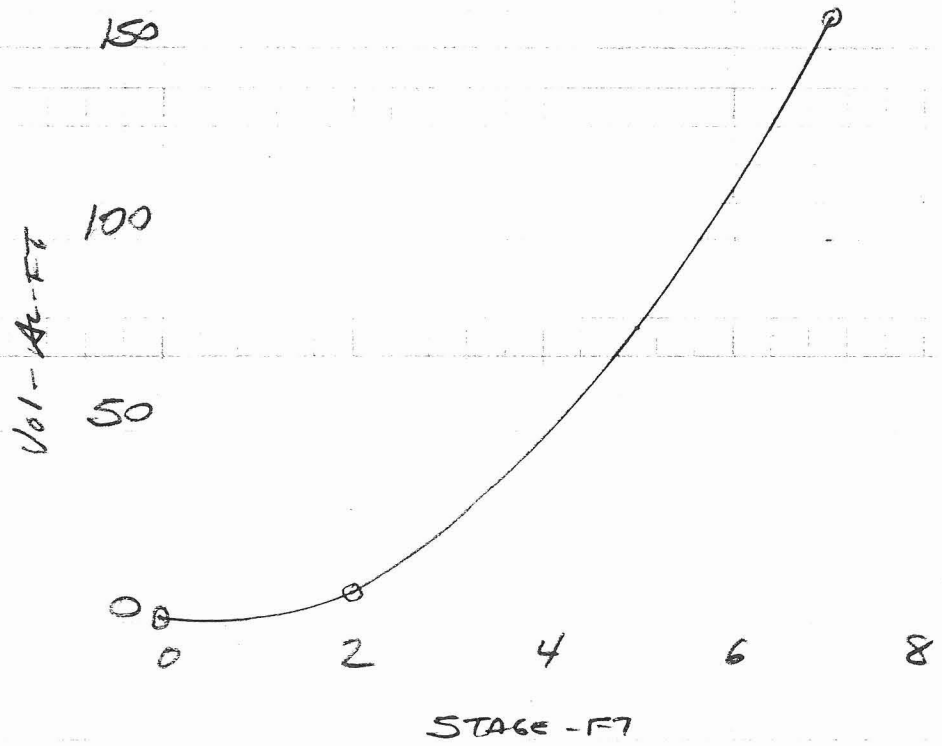
COMPUTATION SHEET

SCS–ENG–523 Rev. 8–69

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

STATE		PROJECT		
Ariz.		RWCD Branch 5, Inlet Hydrology		
BY Hom	DATE 8/22/85	CHECKED BY	DATE	JOB NO.
SUBJECT STAGE - STORAGE Subarea #36				SHEET ____ OF ____

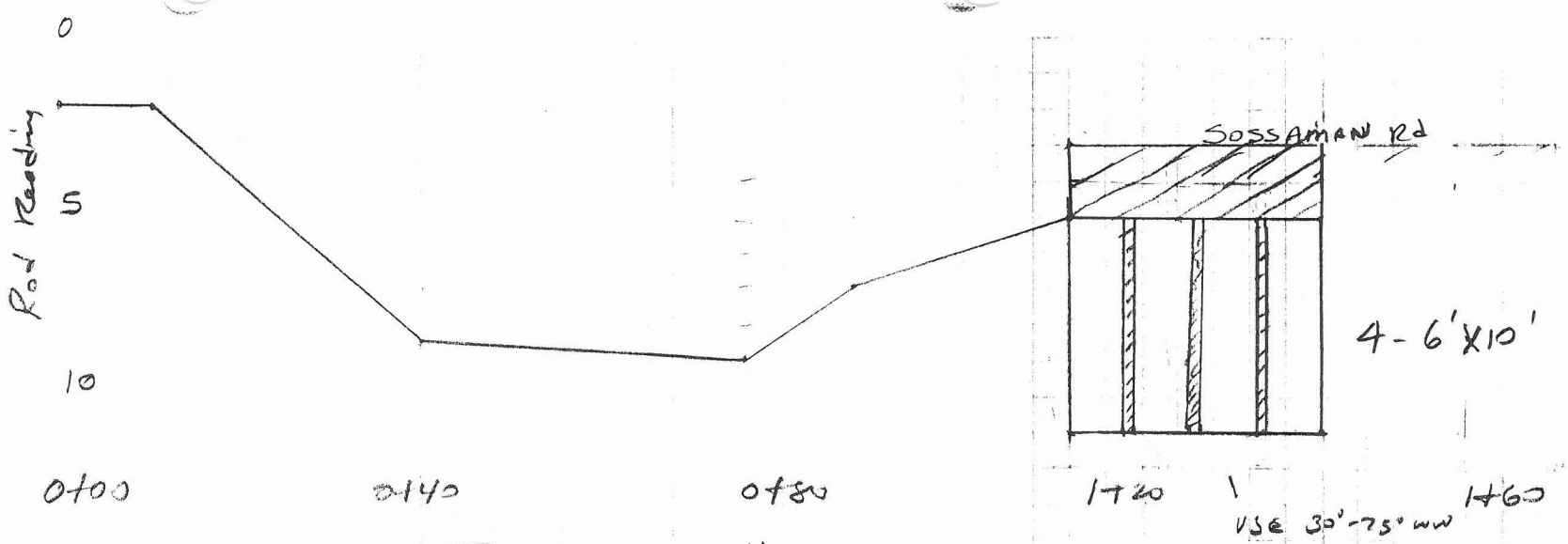


Subarea #36

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT	
ARIZONA	RWCD REACH 5 Tailed Hydrology	
BY / DATE	CHECKED BY / DATE	JOB NO.
Kim / 8/13/85		
SUBJECT		SHEET ___ OF ___
STAGE - DISCHARGE RELATIONSHIP at Quadalupe & Sossaman Roads		



USE 30'-75' WW

TOTAL Q (CULVERT L=50')	CHAN. Q	H	HW/D	CFS/FT (EXHIBIT 14-L) HEM-4	Q (L=40')
160	0	1	.167	4.0	160
340	0	2	.333	8.5	340
620	0	3	.500	15.5	620
1049	89	4	.667	24.0	960
1680	360	5	.833	33.0	1320
2455	775	6	1.000	42.0	1680
3251	1411	7	1.167	46.0	1840
4599	2399	8	1.333	55.0	2200

See Attached Computation work sheet.

VS-120

VS-119

COMPUTATION SHEET
SCS-523 REV 5-58

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

GPO 1958 O—470867

STATE Arizona	PROJECT			
BY	DATE	CHECKED BY	DATE	JOB NO.
SUBJECT Rating Curve Calculations				SHEET ____ OF ____

CHANNEL X-SECTION No. 1 OVERLAND

S = 10/3000 = 0.00333
N = 0.025

Elev.	Stage	Area (ft²)	W.P. (ft)	r (ft)	V (ft/sec)	Q (cfs)	Area (ft²)	W.P. (ft)	r (ft)	V ft/sec	Q cfs
	2	0	0	0	0	0					
	3	32	44	0.73	2.77	89					
	4	81	55	1.47	4.44	360					
	5	143	72	1.99	5.42	775					
	6	222	88	2.52	5.36	1411					
	7	312	93	3.35	7.69	2396					
	8	407	99	4.11	8.81	3584					

Total Q cfs

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5, Inlet Hydrology		
BY Hem	DATE 8/13/85	CHECKED BY	DATE	JOB NO.
SUBJECT ESTIMATED STORAGE DATA FOR				SHEET ____ OF ____

RESERVOIRS

Subarea #31A

This is a Agric. area with a reservoir in the S.W. Corner. The dam has a maximum height of about 12.5 feet.

At Elev 1430

$$A = \frac{900}{2}(1100) = 495{,}000 \text{ ft}^2$$

$$Vol = \frac{495{,}000 \text{ ft}^2/2}{43{,}560 \text{ ft}^2/\text{Ac}}(10) = 57 \text{ Ac-ft.}$$

Esti 100-yr Runoff

$P_{100} = 3.70''$, $CN = 65$

$$Q_{100} = (0.86''/12''/\text{ft})(1 \text{ mi}^2)\left(\frac{640 \text{ Ac}}{\text{mi}^2}\right) = 47 \text{ Ac-ft}$$

∴ There is no outflow from this Area

Subarea #16

Max Depth ≈ 20'
From Quad Sheet @ Elev 1590

$$A = (650')(700') = 455{,}000 \text{ ft}^2$$

$$Vol = \frac{455{,}000}{2}\frac{(20)}{43{,}560} = 104 \text{ Ac-ft}$$

Esti 100 year Runoff

$P_{100} = 3.70''$ $CN = 80$

$$Q_{100} = \frac{1.80''}{12} \times 0.89 \text{ mi}^2 \times \frac{640 \text{ Ac}}{\text{mi}^2} = 85 \text{ Ac-ft}$$

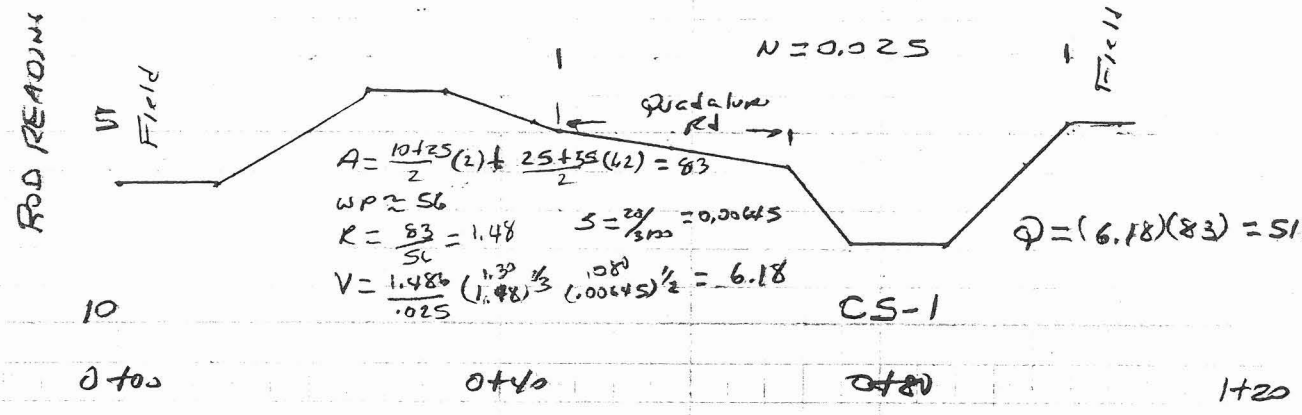
Again there is no outflow from this Area

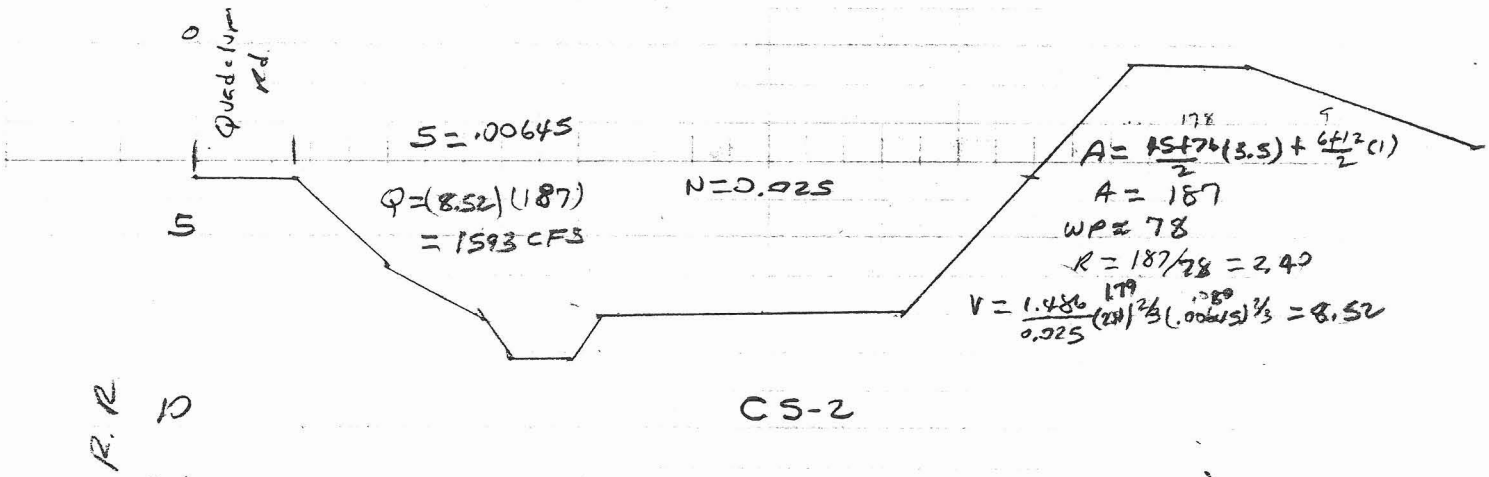
There are other minor Reservoirs in the Study area but these were IGNored in the present Study.

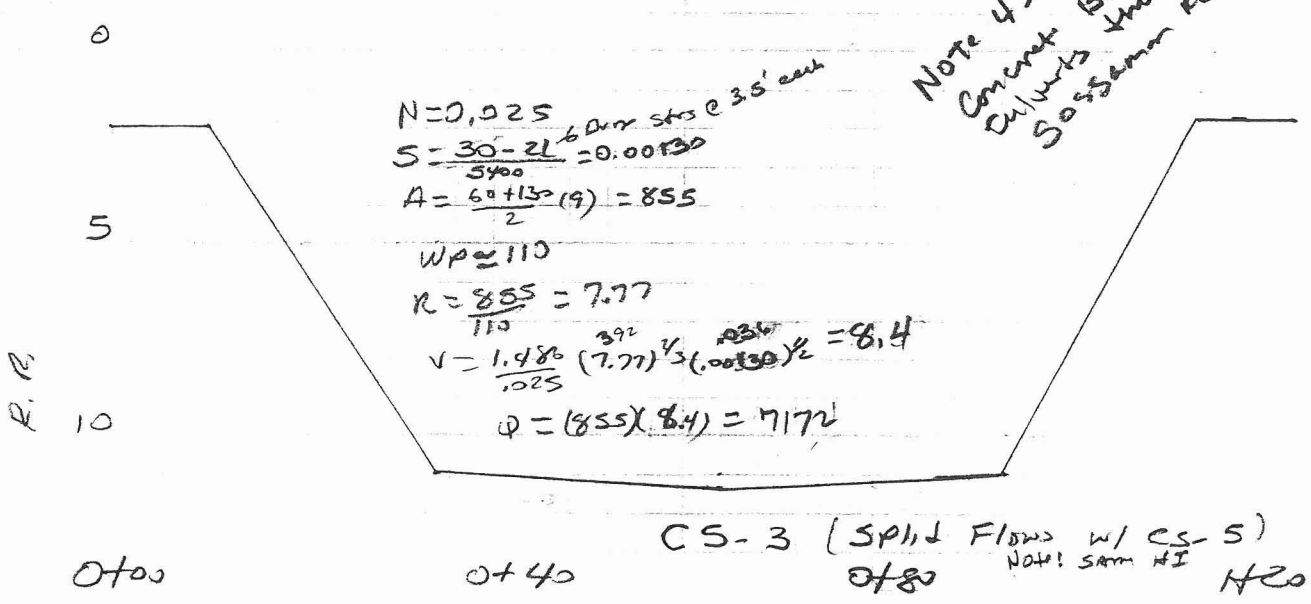
COMPUTATION SHEET
SCS–ENG–523 Rev. 8–69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARIZ		RWCD REACH 5, Inlet Hydrology		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hm	8/8/85			
SUBJECT				SHEET 1 OF 4
FLOOD CHANNEL CAPACITIES				



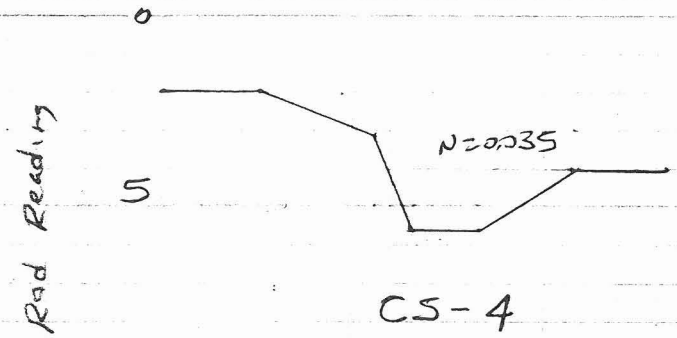




COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE		PROJECT		
Ariz		Ruco Reach 5,		
BY	DATE	CHECKED BY	DATE	JOB NO.
Hem	8/8/85			
SUBJECT				SHEET 2 OF 4
Flood Channel Capacities				



CS-4

$S = P/1700 = .00588$

$A = \frac{24.9}{2}(2) = 26^{\square'}$

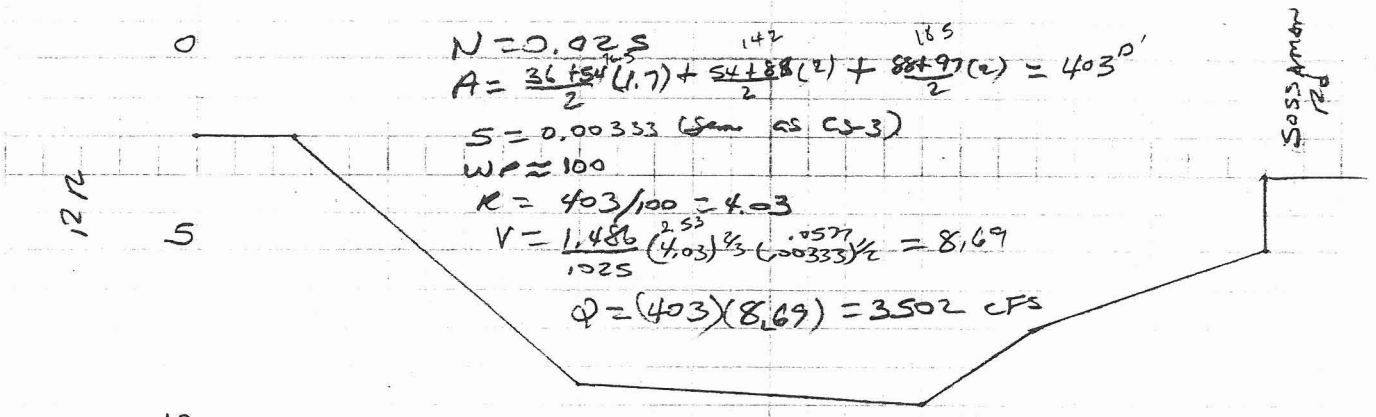
$WP = 20$

$R = 26/20 = 1.30$

$V = \frac{1.486}{.035}(1.3)^{2/3}(.00588)^{1/2} = 3.87$

$Q = (26)(3.87) = 100$ CFS

0+00 0+40 0+80 1+20



CS-5

$N = 0.025$

$A = \frac{36+54}{2}(1.7) + \frac{54+88}{2}(2) + \frac{88+97}{2}(2) = 403^{\square'}$

$S = 0.00333$ (See CS CS-3)

$WP \approx 100$

$R = 403/100 = 4.03$

$V = \frac{1.486}{.025}(4.03)^{2/3}(.00333)^{1/2} = 8.69$

$Q = (403)(8.69) = 3502$ CFS

0+00 0+40 0+80 1+20

Elevation 1416 NGVD Datum 8/72

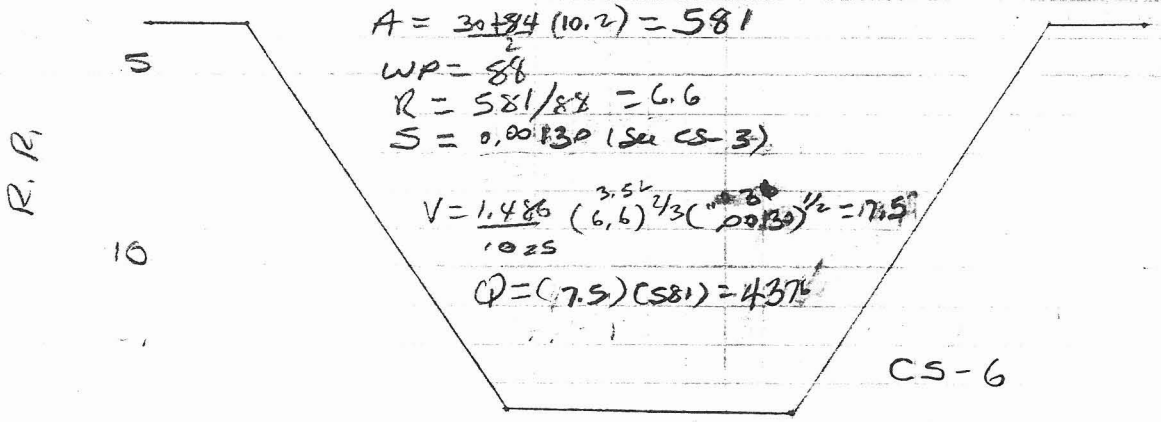
Note 4-8' x 6' Concrete Box Culverts Baseline Hwy 87

$H_w/D = 13/8 = 1.25$

$Q = 85$ cfs/ft

$Q_{TOT} = 85 \times 13 \times 4 = 3400$ CFS

CONTROLS



CS-6

$N = 0.025$

$A = \frac{30+84}{2}(10.2) = 581$

$WP = 88$

$R = 581/88 = 6.6$

$S = 0.00130$ (See CS-3)

$V = \frac{1.486}{.025}(6.6)^{2/3}(.00130)^{1/2} = 17.5$

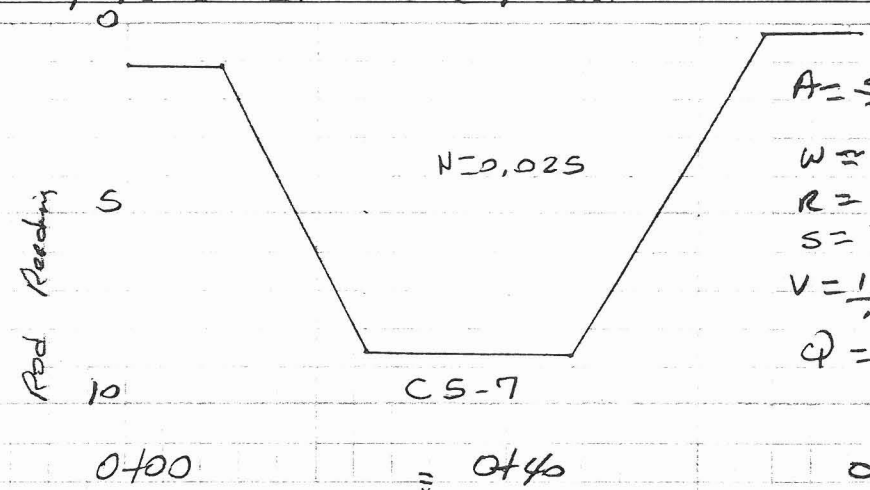
$Q = (17.5)(581) = 4375$

0+00 0+40 0+80 1+20

COMPUTATION SHEET
SCS–ENG–523 Rev. 8–69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARK	RWCD REACH 5, Inlet Hydrology		
BY: Hem	DATE: 8/8/85	CHECKED BY	DATE	JOB NO.
SUBJECT: Flood Channel Capacities			SHEET 3 OF 4



$A = \frac{55+22}{2}(7.5) = 289$

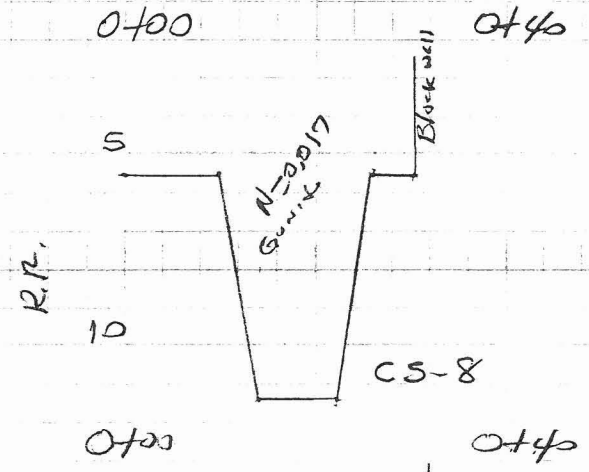
$W = 57$

$R = 289/57 = 5.07$

$S = 10/2500 = .004$

$V = \frac{1.486}{.025}(5.07)^{2/3}(.004)^{1/2} = 11.1$ (2.95, .0632)

$Q = (289)(11.1) = 3205$ CFS



$A = \frac{(8+16)}{2}(5.9) = 70.8$

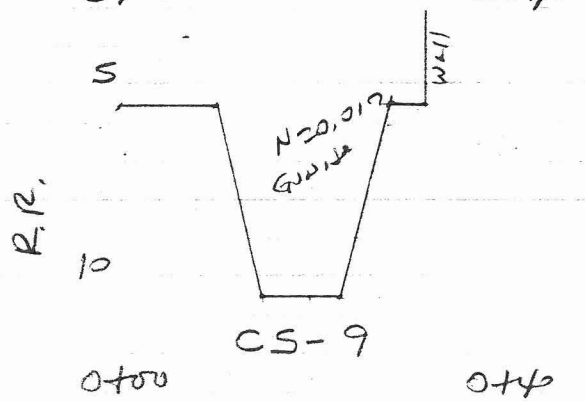
$WP = 22.3$

$R = 70.8/22.3 = 3.17$

$S = 20/3100 = .00645$

$V = \frac{1.486}{.017}(3.15)^{2/3}(.00645)^{1/2} = 15.0$ (2.15, .080)

$Q = (15.0)(70.8) = 1064$ CFS



$A = \frac{8+18}{2}(5.1) = 66.3$

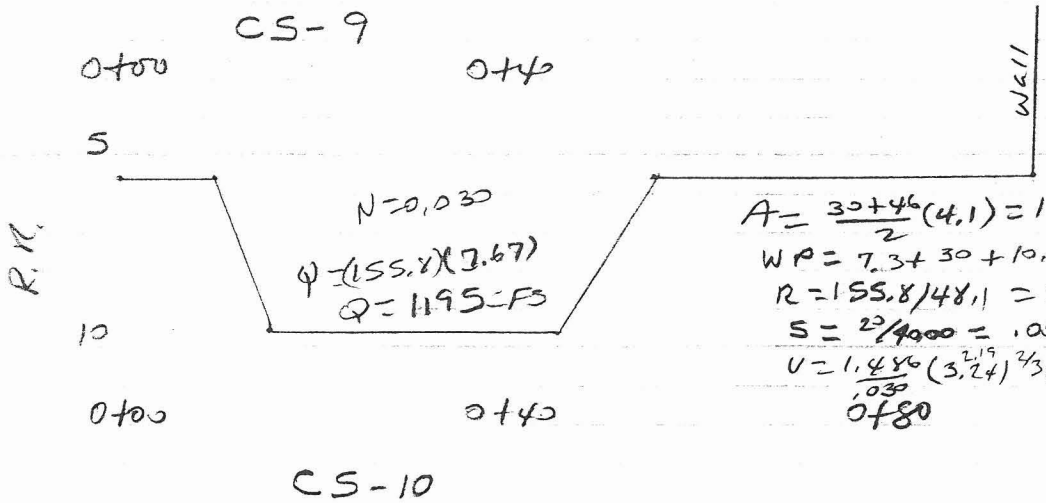
$WP = 22.3$

$R = 66.3/22.3 = 2.97$

$S = 0.00645$

$V = \frac{1.486}{.017}(2.97)^{2/3}(.00645)^{1/2} = 14.45$ (2.07, .080)

$Q = (66.3)(14.45) = 959$



$A = \frac{30+46}{2}(4.1) = 155.8$

$WP = 7.3 + 30 + 10.8 = 48.1$

$R = 155.8/48.1 = 3.24$

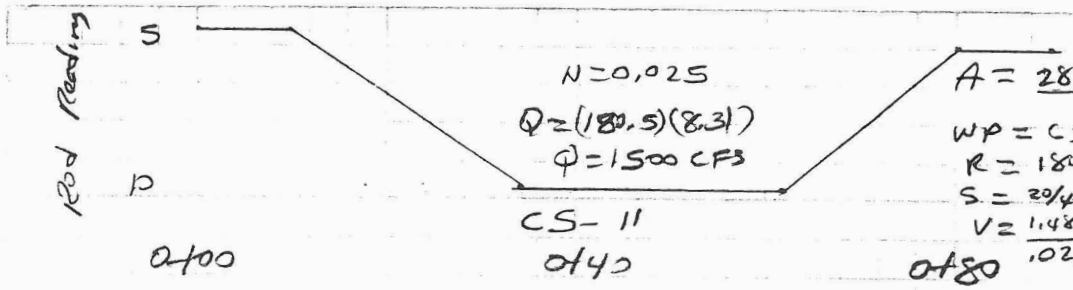
$S = 20/4000 = .005$

$V = \frac{1.486}{.030}(3.24)^{2/3}(.005)^{1/2} = 7.67$ (2.19, .0707)

SCS–ENG–523 Rev. 8–69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCD REACH 5 Inlet Hydrology		
BY: Ham	DATE: 8/9/85	CHECKED BY:	DATE:
JOB NO.			
SUBJECT: Flood Channel Capacities		SHEET 4 OF 4	



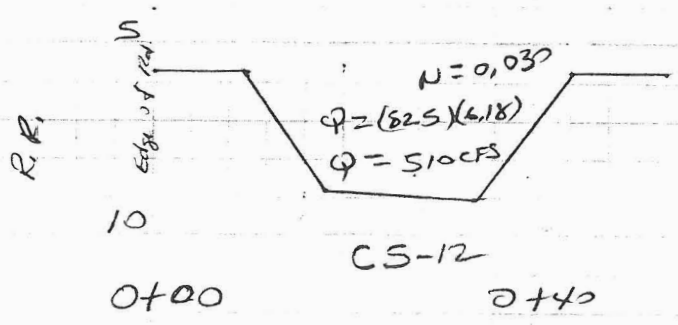
$A = \frac{28+67}{2}(3.8) = 180.5$

$WP = 65$

$R = 180.5/65 = 2.78$

$S = 20/4000 = .005$

$V = \frac{1.486}{.025}(2.78)^{2/3}(.005)^{1/2} = 8.31$



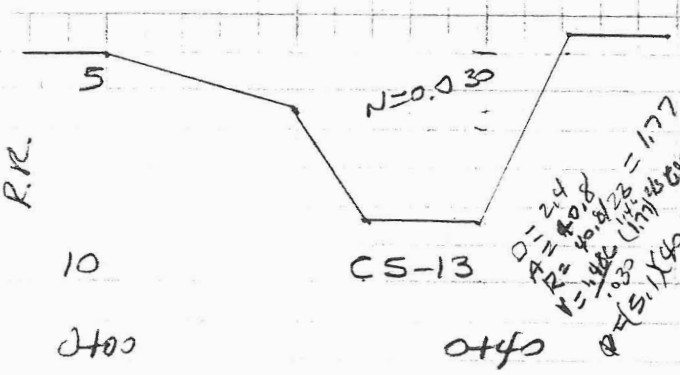
$A = \frac{16+34}{2}(3.3) = 82.5$

$WP = 35.2$

$R = 82.5/35.2 = 2.34$

$S = 0.005$

$V = \frac{1.486}{.030}(2.34)^{2/3}(.005)^{1/2} = 6.18$



$A = \frac{12+25}{2}(2.9) + \frac{25+48}{2}(1.4) = 104.8$

$WP = 50$

$R = 104.8/50 = 2.10$

$S = 0.005$

$V = \frac{1.486}{.030}(2.1)^{2/3}(.005)^{1/2} = 5.07$

$Q = (104.8)(5.07) = 531$ CFS

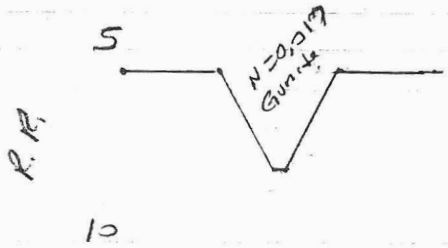
$D = 2.4$

$A = \frac{40+28}{2}(2.4) = 80.8$

$R = 40.8/23 = 1.77$

$V = \frac{1.486}{.030}(1.77)^{2/3}(.005)^{1/2} = 5.1$

$Q = (5.1)(40.8) = 209$ CFS



$A = \frac{1+13}{2}(2.6) = 18.2$

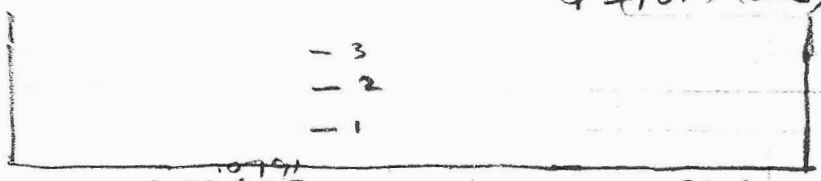
$WP = 14.1$

$R = 18.2/14.1 = 1.29$

$S = 10/1600 = 0.00625$

$V = \frac{1.486}{.017}(1.29)^{2/3}(.00625)^{1/2} = 8.18$

$Q = (18.2)(8.18) = 149$ CFS



$S = 0.00625$

$N = 0.020$

$R = D$

$V = \frac{1.486}{.025}(R)^{2/3}(.00625)^{1/2}$

$V = 5.88 R^{2/3}$

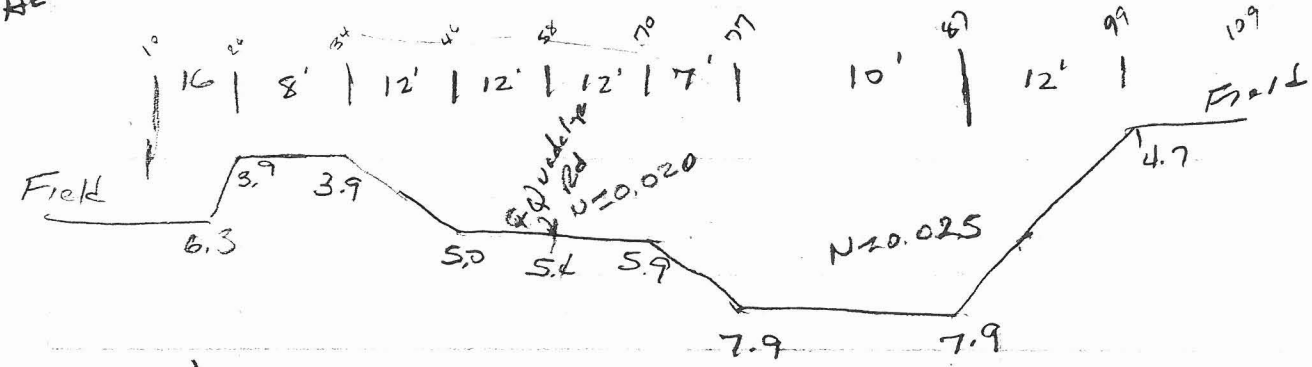
D	V	A	Q
0.5	3.7	40	148
1.0	5.9	80	472
1.5	7.7	120	924
2.0	9.3	160	1488
2.5	10.8	200	2160
3.0	12.2	240	2928
3.5	13.6	280	3808
4.0	14.8	320	4743

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

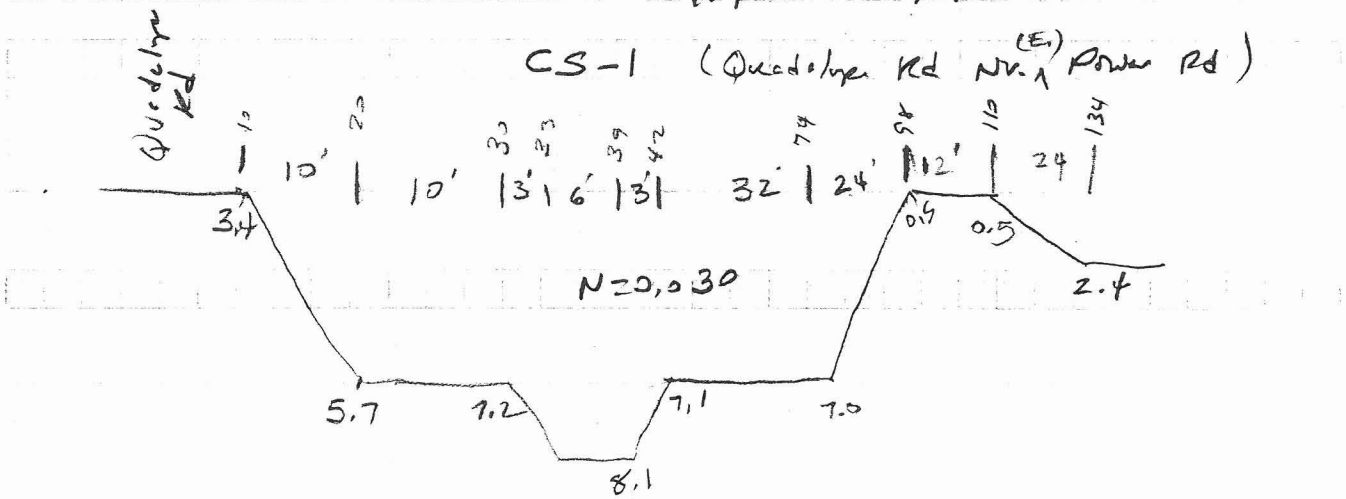
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE: Ark.		PROJECT: RWCO Reach 5, Inlet Hydrology		
BY: Hem & NH	DATE: 8/8/85	CHECKED BY	DATE	JOB NO.
SUBJECT: Cross X-Sections, See TR 20 Schematic Map for Location				SHEET 1 OF 4

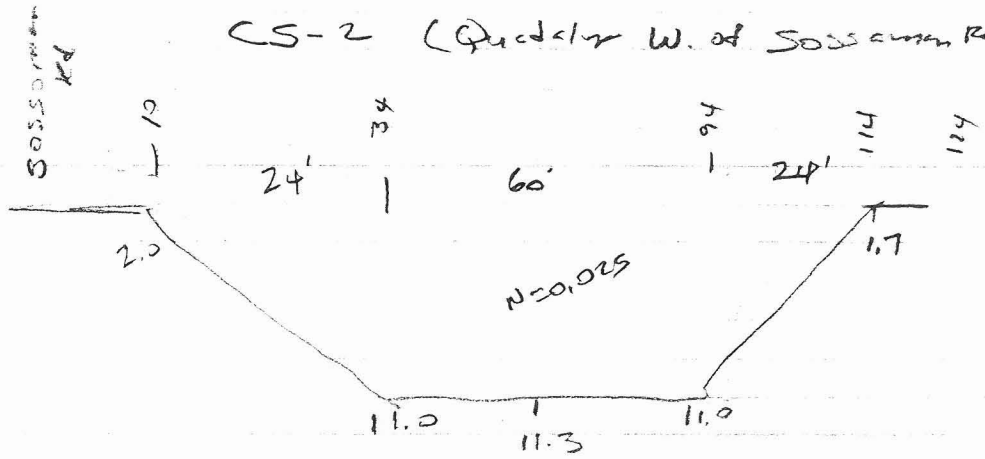
NOLLER HERBERT



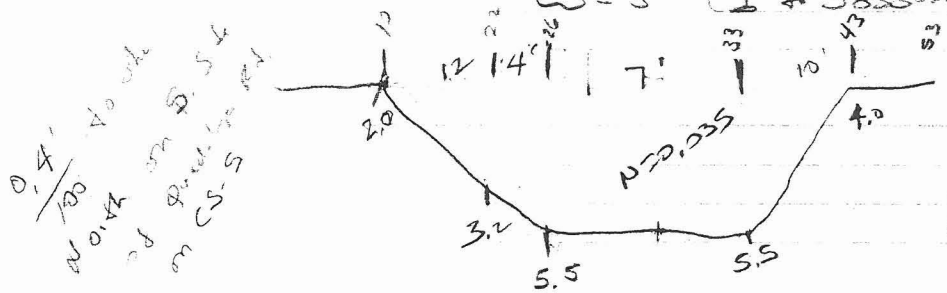
CS-1 (Quadalupe Rd Nr. (E.) Power Rd)



CS-2 (Quadalupe W. of Sossaman Rd)



CS-3 (⊥ to Sossaman N. of Quadalupe Rd)



0.4'/100 to 0.5' N 0.4 on Quadalupe Rd on CS-5

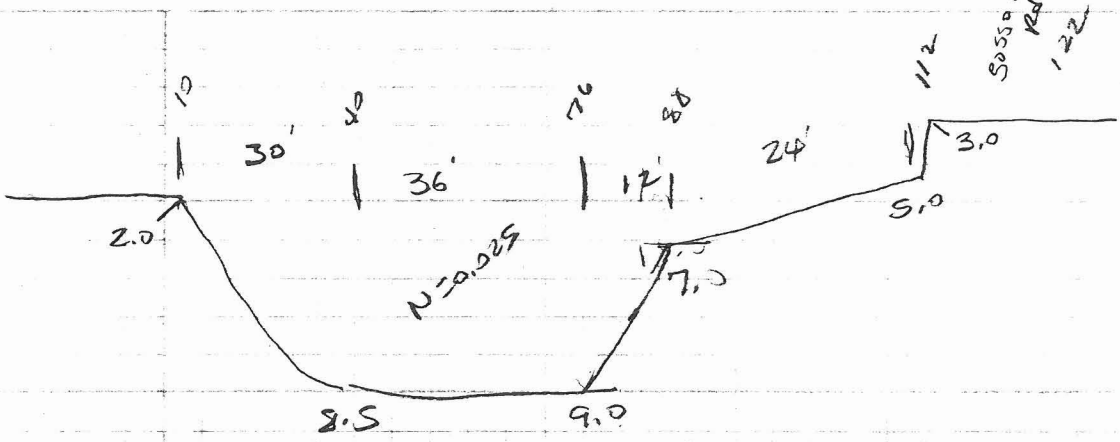
4-6x10' Concrete culverts thru Sossaman Rd

CS-4

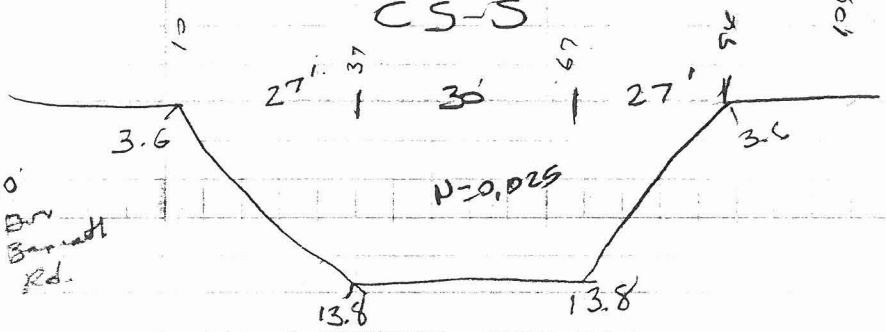
COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE	PROJECT		
ARIZ	RWCH REACH 5 Inlet Hydrology		
BY: Hem & Nit / DATE: 8/8/85	CHECKED BY	DATE	JOB NO.
SUBJECT: CHAN. CROSS SECTIONS			SHEET 2 OF 4

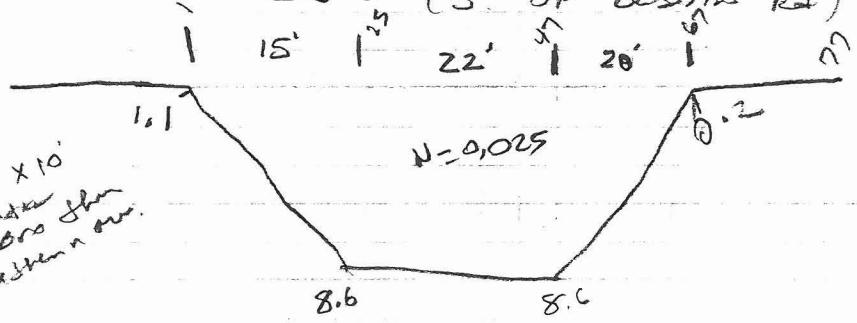


CS-5



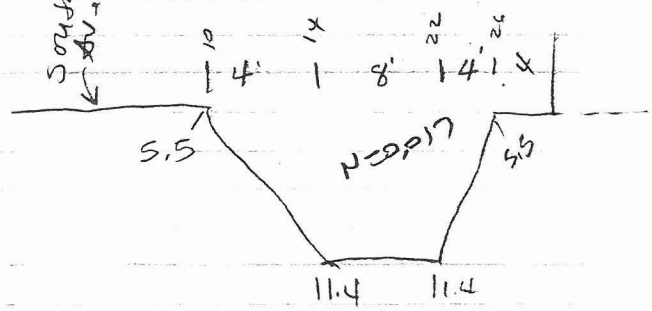
4 - 8' x 10' Concrete Box Culverts Barnett Bassetts Rd.

CS-6 (S. OF Bassetts Rd)



3' - 4' x 10' Culverts on bro Southern Ave.

CS-7 (S. of Southern Ave.)

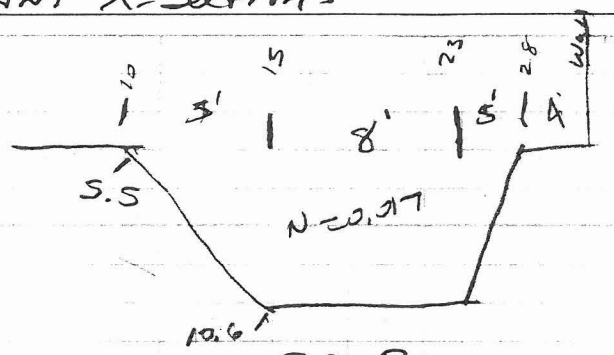


CS-8 (Chan & along Southern Ave NW Bend)

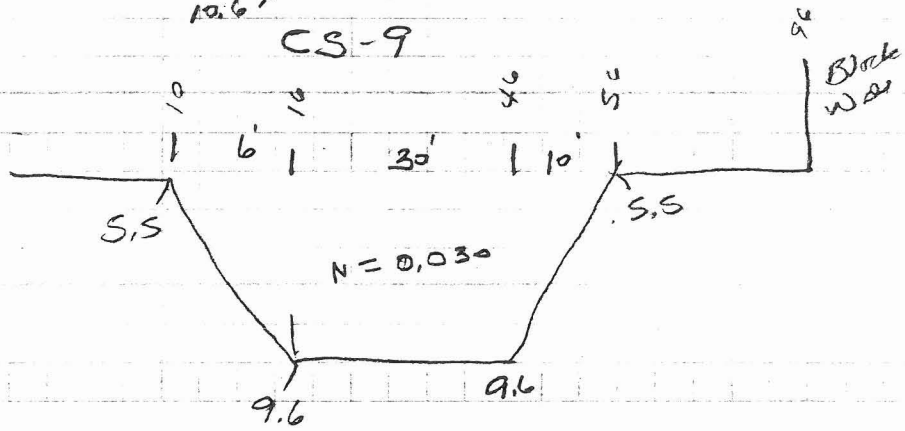
COMPUTATION SHEET
SCS–ENG–523 Rev. 8–69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

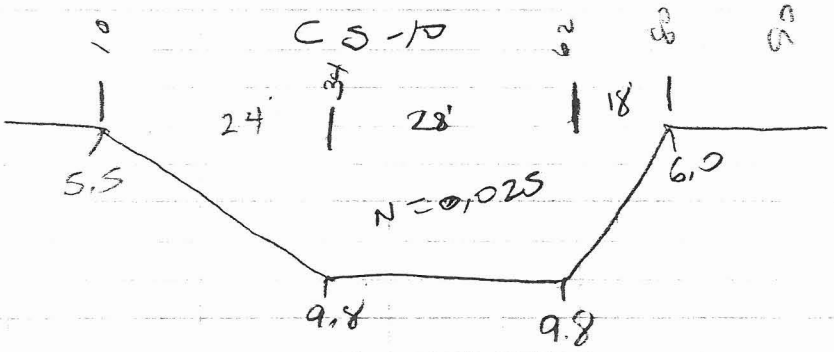
STATE	PROJECT		
ARK	RWCD Reach 5, Trib of Hughes		
BY Hem & NH / DATE 8/8/85	CHECKED BY	DATE	JOB NO.
SUBJECT CHAN. X-Sections			SHEET 3 OF 4



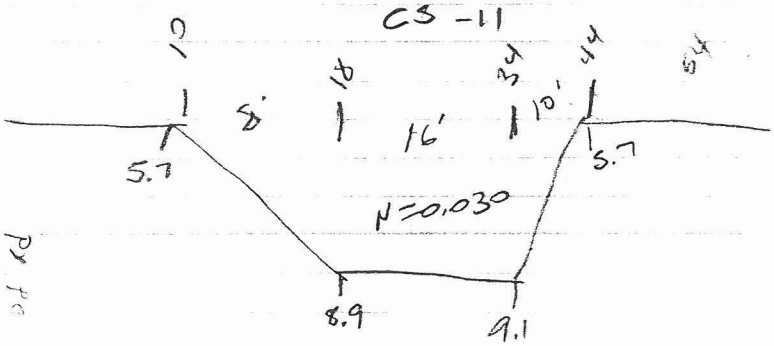
CS-9



CS-10

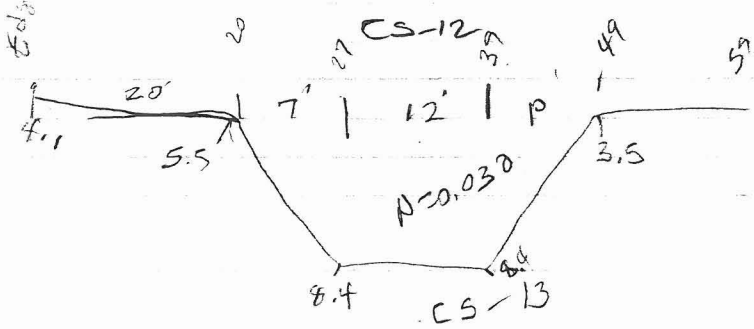


CS-11



Pr to 8 Pr

CS-12



4' x 8' Culvert

CS-13

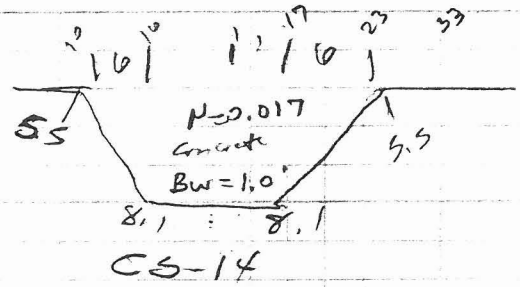
COMPUTATION SHEET

SCS–ENG–523 Rev. 8–69

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

STATE		PROJECT		
ARK		RWCH REACH 5, Inlet Hyd.		
BY Hamit NH	DATE 8/8/85	CHECKED BY	DATE	JOB NO.
SUBJECT Chan X-Sections				SHEET 4 OF 4



COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

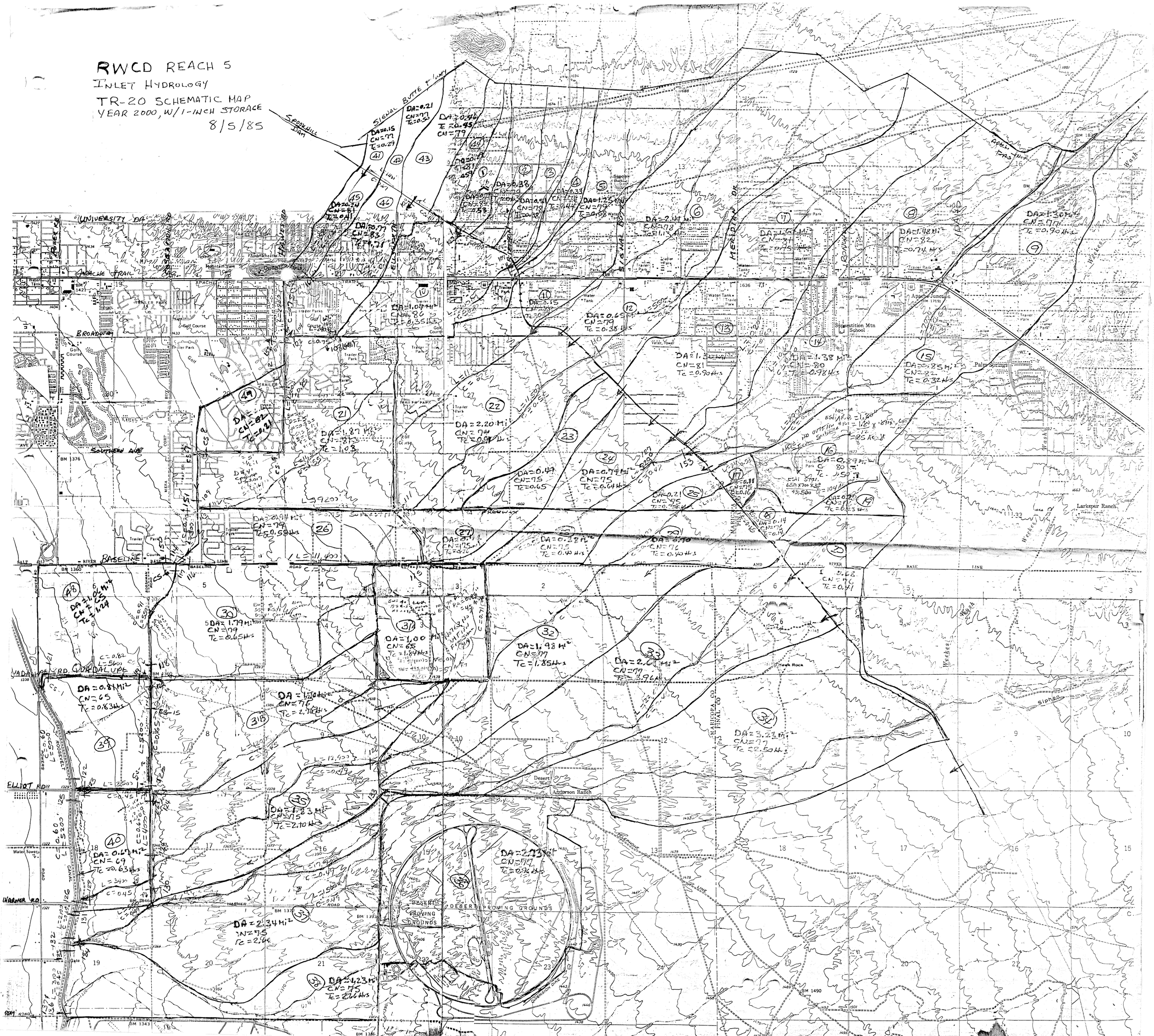
STATE	PROJECT		
ARIZONA	RWCD REACH 5, INLET HYDROLOGY		
BY Hem / DATE 8/27/85	CHECKED BY	DATE	JOB NO.
SUBJECT RECOMMENDED PEAK DISCHARGE - FREQUENCY			SHEET ____ OF ____

FOR YEAR 2000, W/1-INCH OF STORAGE

LOCATION	DISCHARGE - CFS [1] 10-YR	25-YR	100-YR
Quadalupe Rd (119)	1200	1650	2100
1/2-Mi. So. of Quad. Rd	10	150	600
Elliot Rd (123)	25	250	500
1/2 Mi. So. of Elliot Rd	20	50	100
3/4-Mi So. of Elliot Rd	150	300	400
Warner Rd (129)	300	500	800
N. Side of Aquaduct	500	700	1200
1/2 Mi. So. of Warner Rd	50	100	200
3/4 Mi. So. of Warner Rd	50	100	200
Ray Road	50	100	200

[1] NOTE. These discharges are best estimates of flow distribution based on Routed Floods and judgement during Field Reconnaissance.

RWCD REACH 5
INLET HYDROLOGY
TR-20 SCHEMATIC MAP
YEAR 2000, W/1-INCH STORAGE
8/5/85



(DES/RZD.RNS)

```
 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    4444444444  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
```

(1)

RWCD REACH 5

INLET HYDROLOGY

1.) 100-YR, TYPE 2, 24-HOUR

2.) 25-YR, TYPE 2, 24-HOUR

3.) 10-YR, TYPE 2, 24 HOUR

Based on YEAR 2000, W/1-INCH Storage

```
@RUN,L SCS04M,1604000101/  SCS0401,SCS04,5,5000/1000

@SYM PRINT$,1,FJNOSD

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

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

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

@XQT   SCS76*ABS.TR20/CONVEX
```

2

RWCD RCH-5,INLET HYD.YR 2000 W/1-IN. STORAGE 08/15/85

TR-20 HYDROLOGY

3

4

EXECUTIVE CONTROL CARD 274 OPERATION LIST

LISTING OF DATA IN CORE

5

0 RWCD RCH-5,INLET HYD.YR 2000 W/1-IN. STORAGE

	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					

	XSECTN NO.	DRAINAGE AREA
2 XSECTN	102	1.0000

	ELEVATION	DISCHARGE	END AREA
8	.0000	.0000	.0000
8	2.0000	200.0000	.0000
8	4.0000	500.0000	.0000
8	4.5000	575.0000	.0000
8	5.0000	685.0000	.0000
8	5.5000	960.0000	.0000
8	6.0000	1245.0000	.0000
8	6.5000	1580.0000	.0000
8	7.0000	1960.0000	.0000
9 ENDTBL			

	XSECTN NO.	DRAINAGE AREA
2 XSECTN	106	1.0000

	ELEVATION	DISCHARGE	END AREA
8	.0000	.0000	.0000
8	.5000	90.0000	.0000

```
8                          1.0000     280.0000        .0000
8                          1.5000     550.0000        .0000
8                          2.0000     890.0000        .0000
8                          2.5000    1300.0000        .0000
8                          3.0000    1750.0000        .0000
8                          3.5000    2280.0000        .0000
8                          4.0000    2850.0000        .0000
9 ENDTBL
```

6

```
          XSECTN NO.       DRAINAGE AREA
2 XSECTN    108                1.0000

                           ELEVATION   DISCHARGE    END AREA
8                             .0000        .0000        .0000
8                             .5000      60.0000        .0000
8                            1.0000     190.0000        .0000
8                            1.5000     370.0000        .0000
8                            2.0000     600.0000        .0000
8                            2.5000     860.0000        .0000
8                            3.0000    1170.0000        .0000
8                            3.5000    1520.0000        .0000
8                            4.0000    1900.0000        .0000
9 ENDTBL

          XSECTN NO.       DRAINAGE AREA
2 XSECTN    119                1.0000

                           ELEVATION   DISCHARGE    END AREA
8                             .0000        .0000        .0000
8                            1.0000     160.0000        .0000
8                            2.0000     340.0000        .0000
8                            3.0000     620.0000        .0000
8                            4.0000     960.0000        .0000
8                            5.0000    1320.0000        .0000
8                            6.0000    1680.0000        .0000
8                            7.0000    1840.0000        .0000
8                            8.0000    2200.0000        .0000
9 ENDTBL

          XSECTN NO.       DRAINAGE AREA
2 XSECTN    120                1.0000

                           ELEVATION   DISCHARGE    END AREA
8                             .0000        .0000        .0000
8                            1.0000        .0000        .0000
8                            2.0000        .0000        .0000
8                            3.0000        .0000        .0000
8                            4.0000      89.0000        .0000
8                            5.0000     360.0000        .0000
8                            6.0000     775.0000        .0000
8                            7.0000    1411.0000        .0000
8                            8.0000    2399.0000        .0000
9 ENDTBL
```

7

```
          XSECTN NO.        DRAINAGE AREA
2 XSECTN    123                 1.0000

                            ELEVATION    DISCHARGE     END AREA
8                              .0000        .0000        .0000
8                             2.0000        .0000        .0000
8                             3.0000        .0000        .0000
8                             3.5000     100.0000        .0000
8                             4.0000     400.0000        .0000
8                             4.5000     600.0000        .0000
8                             5.0000     800.0000        .0000
9 ENDTBL

          XSECTN NO.        DRAINAGE AREA
2 XSECTN    124                 1.0000

                            ELEVATION    DISCHARGE     END AREA
8                              .0000        .0000        .0000
8                             2.0000     100.0000        .0000
8                             3.0000     250.0000        .0000
8                             3.5000     400.0000        .0000
8                             4.0000     800.0000        .0000
8                             4.5000    1200.0000        .0000
8                             5.0000    1600.0000        .0000
9 ENDTBL

          XSECTN NO.        DRAINAGE AREA
2 XSECTN    129                 1.0000

                            ELEVATION    DISCHARGE     END AREA
8                              .0000        .0000        .0000
8                             2.0000        .0000        .0000
8                             3.0000        .0000        .0000
8                             3.5000        .0000        .0000
8                             4.0000        .0000        .0000
8                             4.5000     150.0000        .0000
8                             5.0000     250.0000        .0000
8                             5.5000     550.0000        .0000
8                             6.0000     800.0000        .0000
9 ENDTBL

          XSECTN NO.        DRAINAGE AREA
2 XSECTN    130                 1.0000

                            ELEVATION    DISCHARGE     END AREA
8                              .0000        .0000        .0000
8                             2.0000      50.0000        .0000
8                             3.0000     125.0000        .0000
8                             3.5000     200.0000        .0000
8                             4.0000     400.0000        .0000
8                             4.5000     600.0000        .0000
8                             5.0000     800.0000        .0000
8                             5.5000    1200.0000        .0000
```

```
8                          6.0000   1600.0000        .0000
9 ENDTBL


          XSECTN NO.       DRAINAGE AREA
2 XSECTN    152                1.0000

                           ELEVATION   DISCHARGE    END AREA
8                             .0000        .0000       .0000
8                            2.0000        .0000       .0000
8                            4.0000        .0000       .0000
8                            4.5000      75.0000       .0000
8                            5.0000     185.0000       .0000
8                            5.5000     460.0000       .0000
8                            6.0000     745.0000       .0000
8                            6.5000    1080.0000       .0000
8                            7.0000    1460.0000       .0000
9 ENDTBL


          STRUCT NO.
3 STRUCT       36

                           ELEVATION   DISCHARGE     STORAGE
8                             .0000        .0000       .0000
8                            1.0000      16.0000      2.0000
8                            2.0000      52.0000      8.0000
8                            3.0000      80.0000     25.0000
8                            4.0000     104.0000     48.0000
8                            5.0000     120.0000     77.0000
8                            6.0000     140.0000    114.0000
8                            7.0000     160.0000    158.0000
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

```
8                .0000        .0090        .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

(10)

6	RUNOFF	1	42			6	.2100	77.0000	.50001	0	0	1	0	1
6	REACH	3	41	6		5	1400.0000	.6700	.00000	0	0	0	0	0
6	RUNOFF	1	41			6	.1500	77.0000	.29001	0	0	1	0	1
6	ADDHYD	4	41	5	6	7			1	1	0	1	0	1
6	REACH	3	101	7		5	5800.0000	.6700	.00000	0	0	0	0	0
6	RUNOFF	1	45			6	.2400	81.0000	.41001	0	0	1	0	1
6	ADDHYD	4	101	5	6	7			1	1	0	1	0	1
6	REACH	3	102	7		1	2900.0000	.7500	.00000	0	0	0	0	0
6	RUNOFF	1	44			6	.2900	81.0000	.59001	0	0	1	0	1
6	REACH	3	103	6		5	1500.0000	.6700	.00000	0	0	0	0	0
6	RUNOFF	1	43			6	.4600	79.0000	.45001	0	0	1	0	1
6	ADDHYD	4	103	5	6	7			1	1	0	1	0	1
6	REACH	3	104	7		5	9700.0000	.7000	.00000	0	0	0	0	0
6	RUNOFF	1	46			6	.7700	83.0000	.77001	0	0	1	0	1
6	ADDHYD	4	104	5	6	7			1	0	0	1	0	1
6	SAVMOV	5	104	7		5								
6	SAVMOV	5	102	1		6								
6	ADDHYD	4	102	5	6	7			1	0	0	1	0	1
6	SAVMOV	5	102	7		1								
6	RUNOFF	1	2			6	.3800	79.0000	.63001	0	0	1	0	1
6	REACH	3	1	6		5	900.0000	.8000	.00000	0	0	0	0	0
6	RUNOFF	1	1			6	.2900	82.0000	.49001	0	0	1	0	1
6	ADDHYD	4	105	5	6	7			1	1	0	1	0	1
6	REACH	3	106	7		2	7500.0000	.8000	.00001	0	0	1	0	1
6	RUNOFF	1	3			5	.5100	78.0000	.38001	0	0	1	0	1
6	RUNOFF	1	4			6	.3300	78.0000	.44001	0	0	1	0	1
6	ADDHYD	4	107	5	6	7			0	0	0	0	0	0
6	SAVMOV	5	107	7		5								
6	RUNOFF	1	5			6	1.2500	79.0000	.68001	0	0	1	0	1
6	ADDHYD	4	107	5	6	7			1	1	0	1	0	1
6	REACH	3	106	7		5	9000.0000	.8000	.00001	0	0	1	0	1
6	RUNOFF	1	10			6	1.0400	86.0000	.35001	0	0	1	0	1
6	ADDHYD	4	106	5	6	7			1	0	0	1	0	1
6	SAVMOV	5	106	7		5								
6	SAVMOV	5	106	2		6								
6	ADDHYD	4	106	5	6	7			1	1	0	1	0	1
6	DIVERT	6	106	7	3	2	.0000	.6000	108.00000	0	0	0	0	0
6	REACH	3	104	3		5	2400.0000	.7500	.00001	0	0	1	0	1
6	SAVMOV	5	102	1		6								
6	ADDHYD	4	102	5	6	7			1	1	0	1	0	1
6	DIVERT	6	102	7	3	1	.0000	.6000	152.00000	0	0	0	0	0
6	REACH	3	152	1		5	10.0000	.9000	.00001	0	0	1	0	1
6	SAVMOV	5	152	5		1								
6	RUNOFF	1	6			6	2.4400	78.0000	1.13001	0	0	1	0	1
6	REACH	3	110	6		5	5500.0000	.6000	.00000	0	0	0	0	0
6	RUNOFF	1	12			6	.6500	79.0000	.38001	0	0	1	0	1
6	ADDHYD	4	110	5	6	7			1	1	0	1	0	1
6	REACH	3	111	7		5	11500.0000	.5500	.00000	0	0	0	0	0
6	RUNOFF	1	22			6	2.2000	79.0000	.91001	0	0	1	0	1
6	ADDHYD	4	111	5	6	7			1	0	0	1	0	1
6	SAVMOV	5	111	7		6								
6	RUNOFF	1	11			7	.1500	80.0000	.29001	0	0	1	0	1
6	REACH	3	111	7		5	11500.0000	.5500	.00000	0	0	0	0	0

6	ADDHYD	4	111	5	6	7			1	1	0	1	0	1
6	REACH	3	112	7		5	9200.0000	.7500	.00001	0	0	1	0	1
6	RUNOFF	1	21			6	2.3000	81.0000	1.03001	0	0	1	0	1
6	ADDHYD	4	112	5	6	7			1	0	0	1	0	1
6	SAVMOV	5	112	7		6								
6	REACH	3	108	2		5	11300.0000	.5500	.00001	0	0	1	0	1
6	ADDHYD	4	112	5	6	7			1	1	0	1	0	1
6	SAVMOV	5	112	7		6								
6	REACH	3	109	3		5	13000.0000	.8500	.00001	0	0	1	0	1
6	ADDHYD	4	113	5	6	7			1	1	0	1	0	1
6	DIVERT	6	113	7	3	2	3200.0000	1.0000	.00000	0	0	0	0	0
6	REACH	3	114	3		5	3000.0000	.9000	.00001	0	0	1	0	1
6	SAVMOV	5	114	5		3								
6	REACH	3	151	2		5	10.0000	.9000	.00001	0	0	1	0	1
6	SAVMOV	5	151	5		2								
6	ADDHYD	4	151	1	2	7			1	0	0	1	0	1
6	SAVMOV	5	151	7		1								
6	RUNOFF	1	23			6	.4900	75.0000	.65001	0	0	1	0	1
6	REACH	3	115	6		5	3200.0000	.5500	.00000	0	0	0	0	0
6	RUNOFF	1	27			6	.4400	75.0000	.26001	0	0	1	0	1
6	ADDHYD	4	115	5	6	7			1	1	0	1	0	1
6	REACH	3	116	7		5	11400.0000	.6500	.00001	0	0	1	0	1
6	RUNOFF	1	26			6	.9400	79.0000	.58001	0	0	1	0	1
6	ADDHYD	4	116	5	6	7			1	1	0	1	0	1
6	SAVMOV	5	116	7		5								
6	SAVMOV	5	114	3		6								
6	ADDHYD	4	117	5	6	7			1	1	0	1	0	1
6	DIVERT	6	117	7	3	2	3400.0000	1.0000	.00000	0	0	0	0	0
6	REACH	3	118	3		5	5500.0000	.9100	.00000	0	0	0	0	0
6	RUNOFF	1	30			6	1.7900	79.0000	.65001	0	0	1	0	1
6	ADDHYD	4	118	5	6	7			1	0	0	1	0	1
6	SAVMOV	5	118	7		4								
6	REACH	3	150	2		5	10.0000	.9000	.00001	0	0	1	0	1
6	SAVMOV	5	150	5		2								
6	ADDHYD	4	150	1	2	7			1	0	0	1	0	1
6	SAVMOV	5	150	7		1								
6	DIVERT	6	119	4	3	2	.0000	.6000	120.00000	0	0	0	0	0
6	REACH	3	119	3		5	5600.0000	.8200	.00001	0	0	1	0	1
6	RUNOFF	1	48			6	1.0600	65.0000	1.24001	0	0	1	0	1
6	ADDHYD	4	121	5	6	7			1	1	0	1	0	1
6	REACH	3	122	7		5	5000.0000	.6000	.00001	0	0	1	0	1
6	RUNOFF	1	39			6	.8100	65.0000	.83001	0	0	1	0	1
6	ADDHYD	4	122	5	6	7			1	0	0	1	0	1
6	SAVMOV	5	122	7		3								
6	RUNOFF	1	31			6	1.7000	76.0000	2.70001	0	0	1	0	1
6	REACH	3	120	2		5	5200.0000	.6500	.00001	0	0	1	0	1
6	ADDHYD	4	120	5	6	7			1	1	0	1	0	1
6	DIVERT	6	123	7	4	2	.0000	.3000	124.00000	0	0	0	0	0
6	REACH	3	123	4		5	3500.0000	.4500	.00001	0	0	1	0	1
6	ADDHYD	4	125	5	3	7			1	1	0	1	0	1
6	REACH	3	126	7		3	5200.0000	.6000	.00001	0	0	1	0	1
6	RUNOFF	1	9			6	1.3000	77.0000	.90001	0	0	1	0	1
6	REACH	3	15	6		5	7000.0000	.6700	.00000	0	0	0	0	0
6	RUNOFF	1	15			6	.8500	82.0000	.32001	0	0	1	0	1
6	ADDHYD	4	15	5	6	7			1	0	0	1	0	1
6	REACH	3	127	7		4	8000.0000	.6000	.00001	0	0	1	0	1
6	RUNOFF	1	8			6	1.4800	82.0000	.74001	0	0	1	0	1

11

6	REACH	3	14	6	5	10600.0000	.6000	.00000	0	0	0	0	0
6	RUNOFF	1	14		6	1.3800	80.0000	.98001	0	0	1	0	1
6	ADDHYD	4	14	5 6 7				1	0	0	1	0	1
6	SAVMOV	5	14	7	5								
6	SAVMOV	5	127	4	6								
6	ADDHYD	4	153	5 6 4				1	1	0	1	0	1
6	RUNOFF	1	7		6	1.6000	81.0000	.95001	0	0	1	0	1
6	PEACH	3	13	6	5	10200.0000	.6000	.00000	0	0	0	0	0
6	RUNOFF	1	13		6	1.3000	81.0000	.90001	0	0	1	0	1
6	ADDHYD	4	13	5 6 7				1	1	0	1	0	1
6	SAVMOV	5	13	7	5								
6	SAVMOV	5	127	4	6								
6	ADDHYD	4	127	5 6 7				1	1	0	1	0	1
6	REACH	3	24	7	5	5200.0000	.4800	.00000	0	0	0	0	0
6	RUNOFF	1	24		6	.7900	75.0000	.64001	0	0	1	0	1
6	ADDHYD	4	24	5 6 7				1	0	0	1	0	1
6	REACH	3	28	7	5	5000.0000	.5500	.00000	0	0	0	0	0
6	RUNOFF	1	28		6	.3800	75.0000	.40001	0	0	1	0	1
6	ADDHYD	4	28	5 6 7				1	0	0	1	0	1
6	REACH	3	128	7	4	11600.0000	.7100	.00000	0	0	0	0	0
6	RUNOFF	1	18		6	.1400	76.0000	.14001	0	0	1	0	1
6	REACH	3	17	6	5	2500.0000	.6500	.00000	0	0	0	0	0
6	RUNOFF	1	17		6	.1100	75.0000	.16001	0	0	1	0	1
6	ADDHYD	4	17	5 6 7				1	1	0	1	0	1
6	REACH	3	25	7	5	2300.0000	.4900	.00000	0	0	0	0	0
6	RUNOFF	1	25		6	.2100	75.0000	.39001	0	0	1	0	1
6	ADDHYD	4	25	5 6 7				1	0	0	1	0	1
6	REACH	3	29	7	5	4100.0000	.5500	.00000	0	0	0	0	0
6	RUNOFF	1	29		6	.7000	76.0000	.40001	0	0	1	0	1
6	ADDHYD	4	29	5 6 7				1	0	0	1	0	1
6	REACH	3	32	7	5	14000.0000	.5500	.00000	0	0	0	0	0
6	RUNOFF	1	32		6	1.9800	77.0000	1.85001	0	0	1	0	1
6	ADDHYD	4	32	5 6 7				1	0	0	1	0	1
6	SAVMOV	5	32	7	5								
6	SAVMOV	5	128	4	6								
6	ADDHYD	4	128	5 6 7				1	1	0	1	0	1
6	REACH	3	35	7	5	12000.0000	.4500	.00000	0	0	0	0	0
6	RUNOFF	1	35		6	1.8300	75.0000	2.10001	0	0	1	0	1
6	ADDHYD	4	35	5 6 7				1	0	0	1	0	1
6	SAVMOV	5	35	7	6								
6	REACH	3	124	2	5	4000.0000	.6000	.00001	0	0	1	0	1
6	ADDHYD	4	124	5 6 7				1	1	0	1	0	1
6	DIVERT	6	129	7 4 2		.0000	.2000	130.00000	0	0	0	0	0
6	REACH	3	129	4	5	3400.0000	.4500	.00001	0	0	1	0	1
6	RUNOFF	1	40		6	.6700	69.0000	.63001	0	0	1	0	1
6	ADDHYD	4	129	5 6 7				1	0	0	1	0	1
6	SAVMOV	5	129	7	5								
6	SAVMOV	5	126	3	6								
6	ADDHYD	4	131	5 6 7				1	1	0	1	0	1
6	REACH	3	132	7	3	2100.0000	.6500	.00001	0	0	1	0	1
6	RUNOFF	1	19		6	.2000	76.0000	.23001	0	0	1	0	1
6	REACH	3	20	6	5	3700.0000	.5600	.00000	0	0	0	0	0
6	RUNOFF	1	20		6	.6800	76.0000	.41001	0	0	1	0	1
6	ADDHYD	4	20	5 6 7				1	1	0	1	0	1
6	REACH	3	33	7	5	22800.0000	.4600	.00000	0	0	0	0	0
6	RUNOFF	1	33		6	2.6100	77.0000	3.96001	0	0	1	0	1
6	ADDHYD	4	33	5 6 7				1	0	0	1	0	1

```
6 SAVMOV 5  33    7    4
6 RUNOFF 1  34         6        3.2300      77.0000       2.50001 0 0 1 0 1
6 REACH  3 133    6    5     5000.0000        .4600        .00001 0 0 1 0 1
6 ADDHYD 4 133    5 4 7                                        1 1 0 1 0 1
6 REACH  3  37    7    5    17700.0000        .4900        .00000 0 0 0 0 0
6 RUNOFF 1  37         6        2.3400      75.0000       2.60001 0 0 1 0 1
6 ADDHYD 4  37    5 6 7                                        0 0 0 0 0 0
6 RUNOFF 1  36         6        2.7300      77.0000        .96001 0 0 1 0 1
6 RESVOR 2     36 6    4         .0000                          1 0 0 1 0 1
6 REACH  3 134    6    5    15000.0000        .4900        .00000 0 0 0 0 0
6 ADDHYD 4 134    5 7 6                                        1 0 0 1 0 1
6 REACH  3 130    2    5     5500.0000        .4900        .00001 0 0 1 0 1
6 ADDHYD 4 134    5 6 7                                        1 1 0 1 0 1
6 SAVMOV 5 134    7    5
6 SAVMOV 5 132    3    6
6 ADDHYD 4 135    5 6 7                                        1 1 0 1 0 1
6 REACH  3 136    7    5     3100.0000        .6500        .00001 0 0 1 0 1
6 RUNOFF 1  38         6        1.2300      75.0000       2.66001 0 0 1 0 1
6 ADDHYD 4 137    5 6 7                                        1 1 0 1 0 1
  ENDATA

END OF LISTING
```

13

PASS= 1

EXECUTIVE CONTROL CARD 275 OPERATION INCREM, MAIN TIME INCREMENT= .20
EXECUTIVE CONTROL CARD 276 OPERATION COMPUT, FROM XSECTN/STRUCT 42/ 0 TO XSECTN/STRUCT 137/ 0
STARTING TIME= .00 RAIN DEPTH= 3.30 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 1 STORM NO.= 1

(14)

SUBROUTINE RUNOFF CROSS SECTION 42
AREA= .21 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.17	120.049	(RUNOFF)
19.33	5.025	(RUNOFF)
21.59	4.343	(RUNOFF)
23.59	3.738	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2848 CFS-HRS= 174.13 ACRE-FT= 14.39

SUBROUTINE REACH CROSS SECTION 41
LENGTH= 1400.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= .38

SUBROUTINE RUNOFF CROSS SECTION 41
AREA= .15 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	103.122	(RUNOFF)
16.91	4.848	(RUNOFF)
19.32	3.597	(RUNOFF)
20.30	3.173	(RUNOFF)
21.48	3.156	(RUNOFF)
23.48	2.730	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2833 CFS-HRS= 124.23 ACRE-FT= 10.27

SUBROUTINE ADDHYD CROSS SECTION 41
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.13	188.176	(NULL)
19.32	8.619	(NULL)
21.57	7.401	(NULL)
23.56	6.376	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .36

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.06	.37	.92	1.88	2.99	4.98	7.72	19.30	88.41
12.00	DISCHG	175.12	184.90	135.95	97.00	65.39	48.91	38.65	32.10	28.43	24.84
14.00	DISCHG	22.77	20.99	19.56	18.67	17.50	16.94	16.11	15.29	14.69	13.70

16.00	DISCHG	13.07	12.48	11.99	11.73	11.62	11.59	11.33	10.98	10.71	10.20
18.00	DISCHG	9.88	9.45	9.01	8.76	8.65	8.61	8.61	8.61	8.55	8.15
20.00	DISCHG	7.87	7.70	7.64	7.54	7.13	6.83	6.93	7.25	7.40	7.10
22.00	DISCHG	6.85	6.69	6.63	6.53	6.11	5.82	5.92	6.23	6.37	6.07
24.00	DISCHG	5.80	4.26	2.25	1.00	.39	.15	.05	.02	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2832 CFS-HRS= 298.13 ACRE-FT= 24.64

SUBROUTINE REACH CROSS SECTION 101
LENGTH= 5800.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

15

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= 1.56

SUBROUTINE RUNOFF CROSS SECTION 45
AREA= .24 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.10	178.670	(RUNOFF)
19.33	6.350	(RUNOFF)
21.55	5.509	(RUNOFF)
23.55	4.744	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5500 CFS-HRS= 240.08 ACRE-FT= 19.84

SUBROUTINE ADDHYD CROSS SECTION 101
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	255.610	(NULL)
21.59	12.529	(NULL)
23.58	10.747	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.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	.12	.35	.62	.96
10.00	DISCHG	1.31	1.79	2.46	3.22	4.66	6.37	9.14	13.39	25.33	98.19
12.00	DISCHG	200.15	253.17	236.80	219.65	179.90	138.26	104.81	80.30	65.08	54.12
14.00	DISCHG	46.97	42.01	38.10	35.50	33.18	31.46	29.92	28.35	27.14	25.61
16.00	DISCHG	24.32	23.17	22.07	21.31	20.79	20.47	20.11	19.62	19.21	18.54
18.00	DISCHG	17.93	17.27	16.50	15.94	15.52	15.23	15.08	15.00	14.93	14.56
20.00	DISCHG	14.17	13.84	13.57	13.33	12.86	12.42	12.26	12.41	12.53	12.38
22.00	DISCHG	12.18	11.97	11.76	11.55	11.09	10.65	10.48	10.63	10.75	10.59
24.00	DISCHG	10.36	9.12	6.70	4.69	2.94	1.62	.81	.38	.17	.07
26.00	DISCHG	.02	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3890 CFS-HRS= 537.84 ACRE-FT= 44.45

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 2900.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 44
AREA= .29 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .59

(16)

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	187.404	(RUNOFF)
21.63	6.529	(RUNOFF)
23.63	5.608	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5460 CFS-HRS= 289.35 ACRE-FT= 23.91

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 1500.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= .40

SUBROUTINE RUNOFF CROSS SECTION 43
AREA= .46 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	301.621	(RUNOFF)
19.33	11.595	(RUNOFF)
21.57	10.044	(RUNOFF)
23.57	8.654	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4146 CFS-HRS= 419.94 ACRE-FT= 34.70

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	458.214	(NULL)
21.60	16.453	(NULL)
23.60	14.140	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .75

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.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	.17	.42	.94
10.00	DISCHG	1.76	2.88	4.39	6.15	8.74	11.84	16.31	23.36	44.67	171.37
12.00	DISCHG	371.63	458.00	354.23	251.04	174.06	124.89	97.18	78.51	68.01	59.44
14.00	DISCHG	53.14	49.01	45.29	42.90	40.55	38.67	37.03	35.01	33.53	31.56
16.00	DISCHG	29.79	28.52	27.28	26.53	26.19	26.06	25.69	24.87	24.20	23.23
18.00	DISCHG	22.34	21.51	20.46	19.77	19.44	19.31	19.27	19.26	19.18	18.50
20.00	DISCHG	17.73	17.30	17.11	16.93	16.20	15.42	15.36	16.01	16.45	16.04
22.00	DISCHG	15.38	15.00	14.82	14.65	13.91	13.11	13.05	13.70	14.14	13.72
24.00	DISCHG	13.02	10.72	5.16	2.93	1.28	.54	.22	.09	.03	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4651 CFS-HRS= 709.15 ACRE-FT= 58.60

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SUBROUTINE REACH      CROSS SECTION 104
          LENGTH=   9700.00      INPUT COEFFICIENT=   .7000      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   3.967        AVERAGE ROUTING COEFF=  .7000        NUMBER OF ROUTINGS=  2.38

SUBROUTINE RUNOFF     CROSS SECTION  46
          AREA=     .77      INPUT RUNOFF CURVE=  83.0      TIME OF CONCENTRATION=   .77

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.32                           469.037                      (RUNOFF)
             21.73                            17.906                      (RUNOFF)
             23.72                            15.325                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.6884        CFS-HRS=      839.05        ACRE-FT=      69.34

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

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.58                           667.282                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5770        CFS-HRS=     1546.96        ACRE-FT=     127.84

SUBROUTINE SAVMOV     CROSS SECTION 104
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV     CROSS SECTION 102
          INPUT HYDROGRAPH= 1      OUTPUT HYDROGRAPH= 6

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

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.54                           902.031                        5.39
             21.71                            46.106                         .46
             23.65                            39.405                         .39

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5230        CFS-HRS=     2083.68        ACRE-FT=     172.20

SUBROUTINE SAVMOV     CROSS SECTION 102
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF     CROSS SECTION   2
          AREA=     .38      INPUT RUNOFF CURVE=  79.0      TIME OF CONCENTRATION=   .63

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.24                           219.039                      (RUNOFF)
             21.65                             8.157                      (RUNOFF)
             23.65                             6.997                      (RUNOFF)
```

17

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4136 CFS-HRS= 346.66 ACRE-FT= 28.65

SUBROUTINE REACH CROSS SECTION 1
LENGTH= 900.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .15

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= .29 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .49

18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.15	215.173	(RUNOFF)
19.32	7.848	(RUNOFF)
21.59	6.754	(RUNOFF)
23.59	5.804	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.6204 CFS-HRS= 303.28 ACRE-FT= 25.06

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.20	419.865	(NULL)
21.62	14.864	(NULL)
23.62	12.757	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .67

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.06	.22	.48	.81	1.18	1.69
10.00	DISCHG	2.38	3.37	4.79	6.40	8.80	11.69	15.74	22.26	41.30	148.71
12.00	DISCHG	327.69	419.82	334.59	231.38	162.50	116.90	90.57	73.29	62.73	54.99
14.00	DISCHG	48.81	44.81	41.44	39.07	37.01	35.22	33.73	31.94	30.47	28.80
16.00	DISCHG	27.16	25.94	24.83	24.09	23.75	23.61	23.29	22.59	21.95	21.13
18.00	DISCHG	20.29	19.54	18.62	17.95	17.62	17.48	17.43	17.43	17.35	16.81
20.00	DISCHG	16.10	15.68	15.49	15.33	14.74	14.01	13.86	14.40	14.86	14.57
22.00	DISCHG	13.96	13.58	13.41	13.26	12.67	11.92	11.76	12.30	12.75	12.47
24.00	DISCHG	11.81	10.01	6.08	2.91	1.31	.58	.25	.11	.04	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5029 CFS-HRS= 649.84 ACRE-FT= 53.70

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 7500.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	379.773	1.18
21.90	14.696	.08
23.90	12.593	.07

```
          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5001        CFS-HRS=      648.62        ACRE-FT=      53.60

SUBROUTINE RUNOFF    CROSS SECTION   3
          AREA=    .51     INPUT RUNOFF CURVE=  78.0     TIME OF CONCENTRATION=   .38

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.09                        334.694                     (RUNOFF)
             16.91                         16.914                     (RUNOFF)
             19.33                         12.539                     (RUNOFF)
             21.54                         10.542                     (RUNOFF)
             23.53                          9.446                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3494        CFS-HRS=      444.13        ACRE-FT=      36.70

SUBROUTINE RUNOFF    CROSS SECTION   4
          AREA=    .33     INPUT RUNOFF CURVE=  78.0     TIME OF CONCENTRATION=   .44

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.14                        206.702                     (RUNOFF)
             19.33                          8.109                     (RUNOFF)
             21.56                          7.034                     (RUNOFF)
             23.56                          6.068                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3488        CFS-HRS=      287.27        ACRE-FT=      23.74

SUBROUTINE ADDHYD    CROSS SECTION 107
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

SUBROUTINE SAVMOV    CROSS SECTION 107
          INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF    CROSS SECTION   5
          AREA=   1.25     INPUT RUNOFF CURVE=  79.0     TIME OF CONCENTRATION=   .68

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.27                        676.883                     (RUNOFF)
             21.68                         26.676                     (RUNOFF)
             23.68                         22.890                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4098        CFS-HRS=     1137.27        ACRE-FT=      93.98

SUBROUTINE ADDHYD    CROSS SECTION 107
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.19                       1174.690                     (NULL)
             21.60                         44.527                     (NULL)
             23.60                         38.280                     (NULL)

   TIME                              HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=   2.09
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
```

19

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.04	.30
10.00	DISCHG	1.31	3.52	6.90	11.11	17.42	25.01	36.30	53.81	112.64	440.83
12.00	DISCHG	959.67	1174.13	915.03	654.58	461.07	340.73	266.71	217.15	187.97	163.49
14.00	DISCHG	145.51	133.02	122.83	116.14	109.69	104.71	100.07	94.73	90.72	85.38
16.00	DISCHG	80.74	77.14	73.89	71.89	70.92	70.55	69.43	67.26	65.47	62.85
18.00	DISCHG	60.53	58.21	55.45	53.65	52.72	52.34	52.20	52.18	51.90	50.05
20.00	DISCHG	48.08	46.82	46.39	45.89	43.91	41.87	41.69	43.43	44.53	43.42
22.00	DISCHG	41.72	40.70	40.22	39.75	37.73	35.65	35.44	37.22	38.28	37.16
24.00	DISCHG	35.30	28.89	16.98	8.30	3.99	1.86	.87	.41	.19	.08
26.00	DISCHG	.03	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3854 CFS-HRS= 1868.66 ACRE-FT= 154.43

20

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 9000.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.47

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	1029.666	2.17
21.94	43.937	.24
23.93	37.701	.21

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3832 CFS-HRS= 1865.63 ACRE-FT= 154.18

SUBROUTINE RUNOFF CROSS SECTION 10
AREA= 1.04 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .35

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	1041.381	(RUNOFF)
19.31	30.563	(RUNOFF)
21.52	26.575	(RUNOFF)
23.52	22.815	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9290 CFS-HRS= 1294.71 ACRE-FT= 107.00

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	1463.073	2.68
21.58	68.887	.38
23.58	58.891	.33

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5645 CFS-HRS= 3160.34 ACRE-FT= 261.17

SUBROUTINE SAVMOV CROSS SECTION 106
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 106
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

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

21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	1755.227	3.00
21.64	83.118	.46
23.64	71.022	.39

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.06	.52	1.26	2.06
8.00	DISCHG	2.86	3.92	5.20	6.35	7.73	9.02	10.82	13.00	14.98	17.83
10.00	DISCHG	20.49	25.34	32.37	40.09	54.25	67.87	91.58	123.73	224.91	752.88
12.00	DISCHG	1371.36	1706.62	1753.71	1667.21	1303.83	965.51	716.13	547.63	444.34	370.12
14.00	DISCHG	323.05	287.34	259.83	241.22	224.82	213.26	202.32	192.02	183.66	173.13
16.00	DISCHG	164.69	156.38	148.86	143.54	139.71	137.39	134.97	132.17	129.34	124.74
18.00	DISCHG	120.78	116.04	111.08	107.20	104.01	101.95	100.86	100.39	99.90	97.61
20.00	DISCHG	95.36	92.84	90.69	89.02	86.17	83.56	82.18	82.34	83.10	82.75
22.00	DISCHG	81.96	80.25	78.49	77.02	74.16	71.61	70.18	70.29	71.01	70.67
24.00	DISCHG	69.85	61.43	47.38	33.76	20.13	10.47	5.11	2.44	1.14	.53
26.00	DISCHG	.24	.10	.03	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5532 CFS-HRS= 3808.96 ACRE-FT= 314.77

SUBROUTINE DIVERT CROSS SECTION 106
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2400.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .49

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.50	1039.570	(NULL)
21.76	49.748	(NULL)
23.75	42.500	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5469 CFS-HRS= 2276.14 ACRE-FT= 188.10

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.52	1940.613	6.97

21.73	95.848	.96
23.72	81.935	.82

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.40

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.02	.16	.50	.95
8.00	DISCHG	1.43	1.98	2.71	3.59	4.70	6.04	7.69	9.84	12.27	15.12
10.00	DISCHG	18.42	22.71	29.00	37.02	48.33	63.02	82.72	111.72	177.97	477.23
12.00	DISCHG	1060.93	1622.43	1903.81	1922.44	1728.26	1395.40	1068.05	810.60	629.34	507.61
14.00	DISCHG	424.49	367.94	326.51	296.84	274.70	257.31	243.36	230.74	219.55	208.61
16.00	DISCHG	197.74	187.89	178.69	170.97	165.20	161.19	158.14	155.02	151.72	147.64
18.00	DISCHG	142.91	137.98	132.54	127.38	123.14	119.89	117.77	116.58	115.83	114.37
20.00	DISCHG	111.94	109.27	106.67	104.43	101.83	98.75	96.32	95.38	95.66	95.80
22.00	DISCHG	95.13	93.83	92.08	90.29	87.91	84.91	82.48	81.53	81.78	81.87
24.00	DISCHG	81.12	76.56	65.20	50.20	34.92	21.60	12.04	6.26	3.10	1.48
26.00	DISCHG	.67	.26	.10	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5353 CFS-HRS= 4359.82 ACRE-FT= 360.30

22

SUBROUTINE DIVERT CROSS SECTION 102
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,1

SUBROUTINE REACH CROSS SECTION 152
LENGTH= 10.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.32	720.247	5.96

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6774 CFS-HRS= 769.41 ACRE-FT= 63.58

SUBROUTINE SAVMOV CROSS SECTION 152
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 2.44 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.13

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.57	908.989	(RUNOFF)
21.77	50.148	(RUNOFF)
23.77	42.961	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3466 CFS-HRS= 2120.51 ACRE-FT= 175.24

SUBROUTINE REACH CROSS SECTION 110
LENGTH= 5500.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.80

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= .65 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .38

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	450.137	(RUNOFF)
16.91	22.147	(RUNOFF)
19.33	16.393	(RUNOFF)
21.53	14.291	(RUNOFF)
23.53	12.330	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4148 CFS-HRS= 593.49 ACRE-FT= 49.05

SUBROUTINE ADDHYD CROSS SECTION 110
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	519.708	(NULL)
13.15	861.358	(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	.04	.43
10.00	DISCHG	1.14	2.21	3.70	5.54	8.93	13.02	20.17	31.07	62.63	250.98
12.00	DISCHG	476.12	519.46	462.61	584.84	735.18	839.59	858.66	798.43	700.87	593.91
14.00	DISCHG	498.66	418.96	354.15	304.40	264.74	234.48	210.59	191.25	176.42	162.95
16.00	DISCHG	152.15	143.15	135.11	128.49	122.82	117.91	113.24	109.02	105.97	102.76
18.00	DISCHG	100.10	97.27	94.08	91.38	88.81	86.26	83.85	81.77	79.95	77.72
20.00	DISCHG	76.16	75.15	74.14	72.81	70.56	68.69	67.88	67.52	66.43	64.50
22.00	DISCHG	63.31	62.87	62.56	61.92	60.20	58.75	58.24	58.09	57.10	55.23
24.00	DISCHG	54.00	50.52	45.18	42.16	38.74	33.65	27.31	20.78	14.99	10.45
26.00	DISCHG	7.13	4.79	3.18	2.09	1.37	.89	.57	.35	.21	.12
28.00	DISCHG	.06	.03	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3611 CFS-HRS= 2714.29 ACRE-FT= 224.31

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 11500.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 4.23

SUBROUTINE RUNOFF CROSS SECTION 22
AREA= 2.20 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .91

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	991.139	(RUNOFF)
21.77	46.486	(RUNOFF)
23.76	39.816	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4091 CFS-HRS= 2000.64 ACRE-FT= 165.33

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.44	1010.368	(NULL)
14.52	861.471	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3803 CFS-HRS= 4712.38 ACRE-FT= 389.43

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

24

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .15 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	120.705	(RUNOFF)
16.91	5.256	(RUNOFF)
19.32	3.882	(RUNOFF)
20.30	3.420	(RUNOFF)
21.48	3.396	(RUNOFF)
23.48	2.932	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4796 CFS-HRS= 143.24 ACRE-FT= 11.84

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 11500.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 4.23

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.45	1015.459	(NULL)
14.48	885.661	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.44

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.05	.30
10.00	DISCHG	1.09	2.72	5.28	8.84	13.87	20.67	29.95	43.70	84.15	221.39
12.00	DISCHG	518.08	857.36	1009.67	954.99	835.72	756.11	727.98	718.95	733.82	769.36
14.00	DISCHG	815.72	858.52	883.42	880.63	849.95	797.66	732.19	660.50	589.33	522.91
16.00	DISCHG	463.48	412.24	369.17	333.74	304.97	281.93	262.97	246.87	232.86	220.59
18.00	DISCHG	209.68	199.98	191.15	183.31	176.66	171.19	166.66	162.74	159.11	155.27
20.00	DISCHG	150.85	146.49	142.65	139.33	135.89	132.18	128.89	126.94	125.93	124.60
22.00	DISCHG	122.34	119.67	117.37	115.39	113.10	110.28	107.82	106.51	106.21	105.48
24.00	DISCHG	103.67	99.75	92.33	82.74	73.74	67.09	62.00	57.41	53.12	48.95
26.00	DISCHG	44.60	39.89	34.83	29.54	24.32	19.45	15.15	11.50	8.54	6.21

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 28.00    DISCHG        4.45      3.13      2.17      1.48      1.00       .66       .43       .28       .17       .11
 30.00    DISCHG         .06       .04       .02       .01       .00

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3829        CFS-HRS=     4855.15        ACRE-FT=     401.23

SUBROUTINE REACH     CROSS SECTION 112
          LENGTH=   9200.00     INPUT COEFFICIENT=   .7500     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   5.100       AVERAGE ROUTING COEFF=  .7500       NUMBER OF ROUTINGS=  1.88

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.98                        931.146                        (NULL)
             14.96                        874.455                        (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.3829        CFS-HRS=     4855.21        ACRE-FT=     401.23

SUBROUTINE RUNOFF    CROSS SECTION  21
          AREA=   2.30     INPUT RUNOFF CURVE=  81.0     TIME OF CONCENTRATION=  1.03

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.48                       1069.336                      (RUNOFF)
             21.79                         50.756                      (RUNOFF)
             23.78                         43.485                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5445        CFS-HRS=     2292.54        ACRE-FT=     189.46

SUBROUTINE ADDHYD    CROSS SECTION 112
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.75                       1776.823                        (NULL)
             14.86                       1021.200                        (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4309        CFS-HRS=     7147.75        ACRE-FT=     590.69

SUBROUTINE SAVMOV    CROSS SECTION 112
          INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH     CROSS SECTION 108
          LENGTH=  11300.00     INPUT COEFFICIENT=   .5500     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   2.078       AVERAGE ROUTING COEFF=  .5500       NUMBER OF ROUTINGS=  4.15

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             13.82                        527.395                         1.84

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5564        CFS-HRS=     1526.76        ACRE-FT=     126.17

SUBROUTINE ADDHYD    CROSS SECTION 112
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7
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PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.84	1895.585	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 8.26

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.02	.07	.18	.34	.58	1.06	1.98	3.51	5.67
10.00	DISCHG	8.49	12.12	16.94	23.50	32.33	43.98	59.77	81.30	130.61	272.82
12.00	DISCHG	594.34	1052.28	1491.17	1786.24	1892.92	1843.19	1744.37	1662.91	1602.81	1548.74
14.00	DISCHG	1491.84	1438.00	1391.51	1350.48	1307.87	1254.79	1187.89	1108.73	1021.52	930.90
16.00	DISCHG	841.89	758.60	683.53	617.93	562.35	516.05	477.79	446.04	419.31	396.31
18.00	DISCHG	376.09	358.19	342.09	327.48	314.41	302.93	293.09	284.77	277.58	270.90
20.00	DISCHG	264.29	257.68	251.17	245.00	239.14	233.24	227.48	222.50	218.64	215.64
22.00	DISCHG	212.83	209.62	205.99	202.24	198.53	194.61	190.63	187.08	184.37	182.33
24.00	DISCHG	180.28	176.30	168.45	156.45	141.92	126.62	112.54	100.49	89.93	80.27
26.00	DISCHG	71.26	62.92	55.20	47.98	41.12	34.60	28.49	22.92	18.02	13.85
28.00	DISCHG	10.42	7.68	5.57	3.97	2.79	1.93	1.31	.88	.59	.38
30.00	DISCHG	.24	.15	.09	.06	.03	.02	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4515 CFS-HRS= 8674.51 ACRE-FT= 716.86

26

SUBROUTINE SAVMOV CROSS SECTION 112
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 13000.00 INPUT COEFFICIENT= .8500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 9.633 AVERAGE ROUTING COEFF= .8500 NUMBER OF ROUTINGS= 1.59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.89	1191.697	(NULL)
21.94	95.709	(NULL)
23.90	81.828	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1102 CFS-HRS= 3595.27 ACRE-FT= 297.11

SUBROUTINE ADDHYD CROSS SECTION 113
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.86	3084.553	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 11.90

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.06	.25
8.00	DISCHG	.60	1.06	1.61	2.31	3.22	4.39	6.02	8.35	11.64	15.96
10.00	DISCHG	21.30	27.86	36.23	47.58	62.97	83.43	111.13	148.44	219.71	401.61
12.00	DISCHG	859.64	1585.93	2314.91	2847.45	3071.45	3017.41	2816.76	2581.98	2371.16	2196.26
14.00	DISCHG	2052.51	1926.85	1810.09	1714.64	1631.92	1549.61	1460.78	1364.48	1263.15	1160.10
16.00	DISCHG	1059.75	965.46	879.83	804.46	740.04	686.44	642.68	606.94	576.97	550.76

18.00	DISCHG	527.01	504.94	484.14	464.48	446.14	429.77	415.88	404.52	395.33	387.46
20.00	DISCHG	379.78	371.48	362.60	353.85	345.50	337.20	328.73	320.94	315.06	311.30
22.00	DISCHG	308.54	305.19	300.78	295.69	290.29	284.41	277.93	271.66	266.94	264.14
24.00	DISCHG	262.09	257.91	248.19	229.96	203.89	174.16	145.58	121.18	101.74	86.55
26.00	DISCHG	74.42	64.45	55.90	48.27	41.23	34.63	28.49	22.92	18.02	13.85
28.00	DISCHG	10.42	7.68	5.57	3.97	2.79	1.93	1.31	.88	.59	.38
30.00	DISCHG	.24	.15	.09	.06	.03	.02	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5976 CFS-HRS= 12269.78 ACRE-FT= 1013.97

27

SUBROUTINE DIVERT CROSS SECTION 113
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 3000.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.92	3046.517	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5976 CFS-HRS= 12269.63 ACRE-FT= 1013.96

SUBROUTINE SAVMOV CROSS SECTION 114
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 3

SUBROUTINE REACH CROSS SECTION 151
LENGTH= 10.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

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

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE SAVMOV CROSS SECTION 151
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE ADDHYD CROSS SECTION 151
INPUT HYDROGRAPHS= 1,2 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.32	720.247	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6774 CFS-HRS= 769.41 ACRE-FT= 63.58

SUBROUTINE SAVMOV CROSS SECTION 151
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 23
AREA= .49 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .65

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.27	214.715	(RUNOFF)
21.66	9.457	(RUNOFF)
23.66	8.146	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1588 CFS-HRS= 366.45 ACRE-FT= 30.28

SUBROUTINE REACH CROSS SECTION 115
LENGTH= 3200.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 1.18

28

SUBROUTINE RUNOFF CROSS SECTION 27
AREA= .44 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.01	281.953	(RUNOFF)
16.91	13.419	(RUNOFF)
19.32	9.986	(RUNOFF)
20.31	8.815	(RUNOFF)
21.46	8.795	(RUNOFF)
22.31	7.665	(RUNOFF)
23.46	7.624	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1571 CFS-HRS= 328.57 ACRE-FT= 27.15

SUBROUTINE ADDHYD CROSS SECTION 115
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	315.437	(NULL)
12.55	247.876	(NULL)
21.41	17.920	(NULL)
23.41	15.447	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .93

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.97	2.37	5.48	9.72	32.75	172.37
12.00	DISCHG	308.96	268.17	235.46	246.17	210.30	177.05	141.49	113.54	94.40	77.52
14.00	DISCHG	67.88	59.63	53.84	50.06	46.16	44.03	41.31	39.26	37.70	35.12
16.00	DISCHG	33.80	32.12	30.76	29.92	29.28	28.83	27.92	27.27	26.75	25.62
18.00	DISCHG	25.04	23.89	22.96	22.40	21.91	21.55	21.32	21.20	20.94	20.09
20.00	DISCHG	19.77	19.47	19.17	18.75	17.76	17.36	17.71	17.92	17.76	17.10
22.00	DISCHG	16.98	16.83	16.62	16.25	15.28	14.88	15.23	15.45	15.28	14.60
24.00	DISCHG	14.43	10.77	7.79	6.08	4.25	2.68	1.57	.88	.48	.25
26.00	DISCHG	.13	.06	.03	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1579 CFS-HRS= 694.97 ACRE-FT= 57.43

SUBROUTINE REACH CROSS SECTION 116
LENGTH= 11400.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 3.26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.30	236.125	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1579 CFS-HRS= 694.99 ACRE-FT= 57.43

SUBROUTINE RUNOFF CROSS SECTION 26
AREA= .94 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	554.401	(RUNOFF)
21.63	20.244	(RUNOFF)
23.63	17.395	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4106 CFS-HRS= 855.74 ACRE-FT= 70.72

SUBROUTINE ADDHYD CROSS SECTION 116
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.24	567.854	(NULL)
21.52	38.721	(NULL)
23.53	33.316	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.87

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	.03	.31
10.00	DISCHG	1.01	2.15	3.79	5.80	8.64	12.25	17.30	25.44	51.07	183.63
12.00	DISCHG	423.49	564.57	497.25	423.70	398.92	373.76	354.65	332.09	304.19	270.83
14.00	DISCHG	235.32	203.17	174.63	151.65	133.50	119.25	108.50	99.47	92.55	86.50
16.00	DISCHG	81.09	76.94	73.12	70.01	67.70	65.83	64.00	61.81	59.99	58.11
18.00	DISCHG	56.19	54.52	52.49	50.78	49.54	48.49	47.59	46.84	46.15	44.94
20.00	DISCHG	43.58	42.71	42.10	41.47	40.28	38.88	38.28	38.55	38.66	37.91
22.00	DISCHG	36.90	36.30	35.92	35.49	34.49	33.25	32.78	33.12	33.27	32.55
24.00	DISCHG	31.46	28.91	23.47	18.75	15.69	13.00	10.51	8.25	6.22	4.47
26.00	DISCHG	3.07	2.01	1.27	.77	.45	.25	.14	.07	.04	.02
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2849 CFS-HRS= 1550.73 ACRE-FT= 128.15

SUBROUTINE SAVMOV CROSS SECTION 116
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 114
INPUT HYDROGRAPH= 3 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.89	3445.874	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 13.77

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.05	.21
8.00	DISCHG	.51	.94	1.47	2.14	3.00	4.11	5.62	7.78	10.86	15.21
10.00	DISCHG	20.99	28.40	37.96	50.60	67.83	90.65	121.63	164.70	253.25	540.52
12.00	DISCHG	1170.53	1971.91	2632.85	3140.11	3415.21	3404.40	3220.73	2971.82	2727.21	2510.11
14.00	DISCHG	2323.19	2160.94	2013.44	1889.78	1785.77	1689.11	1591.13	1487.64	1380.62	1271.95
16.00	DISCHG	1165.52	1065.59	974.02	893.01	823.59	765.46	717.44	677.54	644.33	615.31
18.00	DISCHG	589.04	564.88	541.75	520.09	500.20	482.29	466.89	454.16	443.74	434.34
20.00	DISCHG	425.25	416.23	406.88	397.47	387.84	378.12	369.09	361.41	355.17	350.14
22.00	DISCHG	346.12	342.32	337.79	332.43	326.11	319.11	312.30	306.33	301.37	297.38
24.00	DISCHG	294.05	287.85	274.05	253.20	225.99	194.47	163.11	135.43	112.74	94.76
26.00	DISCHG	80.47	68.92	59.27	50.91	43.41	36.51	30.14	24.36	19.26	14.89
28.00	DISCHG	11.26	8.36	6.09	4.36	3.08	2.14	1.46	.99	.66	.43
30.00	DISCHG	.28	.18	.11	.07	.04	.02	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5552 CFS-HRS= 13820.35 ACRE-FT= 1142.11

SUBROUTINE DIVERT CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 118
LENGTH= 5500.00 INPUT COEFFICIENT= .9100 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 17.189 AVERAGE ROUTING COEFF= .9100 NUMBER OF ROUTINGS= .40

SUBROUTINE RUNOFF CROSS SECTION 30
AREA= 1.79 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .65

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	988.003	(RUNOFF)
21.66	38.324	(RUNOFF)
23.66	32.913	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4082 CFS-HRS= 1626.72 ACRE-FT= 134.43

SUBROUTINE ADDHYD CROSS SECTION 118
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.88	3761.780	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5378 CFS-HRS= 15442.71 ACRE-FT= 1276.19

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SUBROUTINE SAVMOV     CROSS SECTION 118
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 4

SUBROUTINE REACH      CROSS SECTION 150
           LENGTH=      10.00      INPUT COEFFICIENT=    .9000      INPUT ROUTINGS=    .00

           AVERAGE WATER VELOCITY=  15.300        AVERAGE ROUTING COEFF=  .9000        NUMBER OF ROUTINGS=    .00

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.62                           15.291                        (NULL)

      TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0         CFS-HRS=         4.79         ACRE-FT=         .40

SUBROUTINE SAVMOV     CROSS SECTION 150
           INPUT HYDROGRAPH= 5      OUTPUT HYDROGRAPH= 2

SUBROUTINE ADDHYD     CROSS SECTION 150
           INPUT HYDROGRAPHS= 1,2      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.32                          718.418                        (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6815         CFS-HRS=      774.05         ACRE-FT=      63.97

SUBROUTINE SAVMOV     CROSS SECTION 150
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 1

SUBROUTINE DIVERT     CROSS SECTION 119
           INPUT HYDROGRAPH= 4      OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH      CROSS SECTION 119
           LENGTH=   5600.00      INPUT COEFFICIENT=    .8200      INPUT ROUTINGS=    .00

           AVERAGE WATER VELOCITY=   7.744        AVERAGE ROUTING COEFF=  .8200        NUMBER OF ROUTINGS=    .82

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              13.08                         1968.134                          7.36

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.9410         CFS-HRS=    11694.86         ACRE-FT=     966.46

SUBROUTINE RUNOFF     CROSS SECTION  48
           AREA=    1.06      INPUT RUNOFF CURVE=  65.0      TIME OF CONCENTRATION=  1.24

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.81                          142.344                      (RUNOFF)
              21.72                           14.403                      (RUNOFF)
              23.74                           12.481                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6486         CFS-HRS=      443.73         ACRE-FT=      36.67
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SUBROUTINE ADDHYD CROSS SECTION 121
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.03	2099.315	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 10.40

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
8.00	DISCHG	.16	.41	.79	1.28	1.90	2.69	3.72	5.10	7.05	9.92
10.00	DISCHG	14.28	20.70	29.52	41.20	56.53	77.18	104.76	142.39	201.82	353.61
12.00	DISCHG	759.80	1329.62	1773.74	1961.62	2060.71	2098.65	2077.31	2013.43	1933.23	1863.84
14.00	DISCHG	1804.13	1748.64	1677.90	1600.68	1532.20	1473.98	1422.14	1371.17	1313.27	1249.68
16.00	DISCHG	1184.39	1119.65	1058.15	999.43	936.61	877.40	826.80	784.24	748.16	717.54
18.00	DISCHG	690.79	666.63	643.76	618.92	594.51	572.43	552.93	536.12	522.05	510.10
20.00	DISCHG	498.77	487.52	476.82	466.62	456.34	445.19	433.67	423.64	416.22	410.34
22.00	DISCHG	404.44	398.57	393.27	388.12	382.24	374.75	366.18	358.54	353.04	348.64
24.00	DISCHG	343.82	337.62	326.32	305.27	277.19	245.84	212.48	179.35	149.28	123.92
26.00	DISCHG	103.48	87.26	74.28	63.63	54.59	46.64	39.43	32.82	26.80	21.43
28.00	DISCHG	16.77	12.94	9.64	7.10	5.14	3.66	2.57	1.77	1.21	.81
30.00	DISCHG	.54	.35	.22	.14	.09	.05	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8092 CFS-HRS= 12138.59 ACRE-FT= 1003.13

SUBROUTINE REACH CROSS SECTION 122
LENGTH= 5000.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.62	2038.387	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8094 CFS-HRS= 12139.66 ACRE-FT= 1003.22

SUBROUTINE RUNOFF CROSS SECTION 39
AREA= .81 INPUT RUNOFF CURVE= 65.0 TIME OF CONCENTRATION= .83

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.47	141.566	(RUNOFF)
21.76	11.084	(RUNOFF)
23.74	9.625	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6481 CFS-HRS= 338.79 ACRE-FT= 28.00

SUBROUTINE ADDHYD CROSS SECTION 122
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.59	2087.519	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7254 CFS-HRS= 12478.45 ACRE-FT= 1031.22

33

SUBROUTINE SAVMOV CROSS SECTION 122
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 3

SUBROUTINE RUNOFF CROSS SECTION 31
AREA= 1.70 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= 2.70

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.72	297.145	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2207 CFS-HRS= 1339.28 ACRE-FT= 110.68

SUBROUTINE REACH CROSS SECTION 120
LENGTH= 5200.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.49

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.34	1695.018	7.29

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9326 CFS-HRS= 3746.21 ACRE-FT= 309.59

SUBROUTINE ADDHYD CROSS SECTION 120
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.37	1983.356	7.58

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.92

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.05	.09	.35	.67	1.81	3.94	8.16	24.96
12.00	DISCHG	46.91	173.04	498.88	976.78	1430.39	1755.88	1934.44	1982.04	1898.28	1739.41
14.00	DISCHG	1539.81	1334.10	1150.89	997.66	873.22	773.57	687.72	612.89	544.96	482.02
16.00	DISCHG	423.06	364.75	309.67	256.63	211.59	177.58	152.14	132.44	115.84	102.38
18.00	DISCHG	90.53	80.31	71.07	63.76	59.04	55.79	53.49	51.41	49.70	48.07
20.00	DISCHG	46.58	45.22	43.87	42.63	41.39	40.40	39.45	38.57	37.76	36.98
22.00	DISCHG	36.32	35.65	35.09	34.53	33.97	33.42	32.86	32.32	31.78	31.22
24.00	DISCHG	30.67	29.92	29.08	28.00	26.49	24.95	22.73	20.51	18.20	15.87
26.00	DISCHG	13.66	11.64	9.68	8.20	6.73	5.68	4.75	3.96	3.35	2.76
28.00	DISCHG	2.34	1.93	1.63	1.35	1.13	.94	.77	.65	.53	.45
30.00	DISCHG	.37	.30	.25	.20	.16	.13	.10	.08	.06	.04
32.00	DISCHG	.03	.02	.01	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9944 CFS-HRS= 5085.49 ACRE-FT= 420.26

SUBROUTINE DIVERT CROSS SECTION 123
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,2

SUBROUTINE REACH CROSS SECTION 123
LENGTH= 3500.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.57

34

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.09	584.793	4.46

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8857 CFS-HRS= 1358.79 ACRE-FT= 112.29

SUBROUTINE ADDHYD CROSS SECTION 125
INPUT HYDROGRAPHS= 5,3 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.82	2613.021	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 13.58

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.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	.04	.14	.33	.63	1.04	1.58	2.28	3.20	4.43
10.00	DISCHG	6.15	8.66	12.38	17.78	25.30	35.42	48.92	66.98	91.96	134.53
12.00	DISCHG	233.89	434.64	760.16	1174.22	1597.05	1961.46	2250.42	2455.26	2574.13	2612.54
14.00	DISCHG	2587.93	2522.75	2433.43	2327.91	2207.64	2079.40	1954.36	1839.30	1735.13	1638.39
16.00	DISCHG	1544.27	1450.82	1358.27	1267.66	1180.26	1097.53	1020.87	951.73	891.48	840.09
18.00	DISCHG	796.59	759.74	728.06	700.15	674.40	649.33	624.98	602.10	581.25	562.64
20.00	DISCHG	546.32	532.10	519.35	507.47	496.10	485.03	474.13	463.31	452.60	442.53
22.00	DISCHG	433.68	426.10	419.37	413.16	407.24	401.32	395.10	388.34	381.07	373.82
24.00	DISCHG	367.22	360.95	353.82	345.07	332.99	315.42	292.12	264.34	233.65	202.05
26.00	DISCHG	171.74	144.48	121.17	101.87	86.12	73.22	62.48	53.30	45.24	38.03
28.00	DISCHG	31.53	25.71	20.58	16.16	12.45	9.41	7.00	5.11	3.68	2.61
30.00	DISCHG	1.82	1.25	.85	.57	.38	.24	.16	.09	.05	.02
32.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5785 CFS-HRS= 13837.24 ACRE-FT= 1143.51

SUBROUTINE REACH CROSS SECTION 126
LENGTH= 5200.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.70

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.44	2548.854	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5785 CFS-HRS= 13837.39 ACRE-FT= 1143.52

SUBROUTINE RUNOFF CROSS SECTION 9
AREA= 1.30 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	525.966	(RUNOFF)

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   21.77                          26.129                        (RUNOFF)
   23.75                          22.452                        (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2821        CFS-HRS=      1075.66        ACRE-FT=       88.89
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35

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SUBROUTINE REACH      CROSS SECTION  15
           LENGTH=   7000.00      INPUT COEFFICIENT=   .6700      INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=   3.452        AVERAGE ROUTING COEFF=  .6700        NUMBER OF ROUTINGS=  1.89

SUBROUTINE RUNOFF     CROSS SECTION  15
           AREA=    .85      INPUT RUNOFF CURVE=  82.0      TIME OF CONCENTRATION=   .32

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.03                          729.177                       (RUNOFF)
              16.91                           31.250                       (RUNOFF)
              19.32                           23.031                       (RUNOFF)
              21.50                           20.132                       (RUNOFF)
              23.50                           17.342                       (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.6227        CFS-HRS=       890.17        ACRE-FT=       73.56

SUBROUTINE ADDHYD     CROSS SECTION  15
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.05                          763.010                        (NULL)
              12.93                          566.748                        (NULL)
              21.39                           46.937                        (NULL)
              23.39                           40.430                        (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4167        CFS-HRS=      1965.73        ACRE-FT=      162.45

SUPROUTINE REACH      CROSS SECTION 127
           LENGTH=   8000.00      INPUT COEFFICIENT=   .6000      INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=   2.550        AVERAGE ROUTING COEFF=  .6000        NUMBER OF ROUTINGS=  2.61

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              13.56                          540.303                        (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4135        CFS-HRS=      1961.36        ACRE-FT=      162.09

SUBROUTINE RUNOFF     CROSS SECTION   8
           AREA=   1.48      INPUT RUNOFF CURVE=  82.0      TIME OF CONCENTRATION=   .74

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.29                          882.094                       (RUNOFF)
              21.71                           33.688                       (RUNOFF)
              23.70                           28.859                       (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.6149        CFS-HRS=      1542.43        ACRE-FT=      127.47
```

SUBROUTINE REACH CROSS SECTION 14
LENGTH= 10600.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 3.46

36

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.38 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .98

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	624.662	(RUNOFF)
21.79	29.839	(RUNOFF)
23.78	25.530	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4776 CFS-HRS= 1315.96 ACRE-FT= 108.75

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.24	880.915	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5485 CFS-HRS= 2858.22 ACRE-FT= 236.20

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 127
INPUT HYDROGRAPH= 4 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 153
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.27	1408.340	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.01

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.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	.28	.96	2.36
10.00	DISCHG	4.58	7.69	11.75	16.90	23.48	31.78	42.56	56.99	87.52	182.19
12.00	DISCHG	372.94	639.68	926.38	1155.88	1286.66	1360.11	1404.89	1397.69	1329.17	1211.50
14.00	DISCHG	1064.35	911.53	769.52	647.97	549.08	471.02	410.98	365.02	329.62	301.74
16.00	DISCHG	279.19	260.65	244.86	231.38	219.83	209.99	201.56	194.20	187.67	181.73
18.00	DISCHG	176.22	171.07	165.92	160.82	155.81	151.05	146.77	142.95	139.57	136.46
20.00	DISCHG	133.48	130.64	128.00	125.61	123.20	120.49	117.74	115.33	113.53	112.08
22.00	DISCHG	110.60	108.92	107.29	105.88	104.42	102.59	100.56	98.70	97.28	96.08
24.00	DISCHG	94.68	92.17	87.52	80.86	72.59	63.40	54.21	45.00	35.84	27.30
26.00	DISCHG	19.89	13.90	9.37	6.12	3.88	2.40	1.45	.86	.50	.29

```
  28.00    DISCHG          .16        .08        .04        .02        .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4906        CFS-HRS=     4819.58        ACRE-FT=     398.29

SUBROUTINE RUNOFF     CROSS SECTION   7
           AREA=   1.60      INPUT RUNOFF CURVE=  81.0      TIME OF CONCENTRATION=   .95

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.44                          781.948                       (RUNOFF)
              21.78                           35.436                       (RUNOFF)
              23.76                           30.300                       (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5475        CFS-HRS=     1597.88        ACRE-FT=     132.05

SUBROUTINE REACH      CROSS SECTION  13
           LENGTH=  10200.00      INPUT COEFFICIENT=   .6000      INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=   2.550        AVERAGE ROUTING COEFF=  .6000        NUMBER OF ROUTINGS=  3.33

SUBROUTINE RUNOFF     CROSS SECTION  13
           AREA=   1.30      INPUT RUNOFF CURVE=  81.0      TIME OF CONCENTRATION=   .90

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.41                          652.989                       (RUNOFF)
              21.76                           28.779                       (RUNOFF)
              23.75                           24.660                       (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.5462        CFS-HRS=     1297.24        ACRE-FT=     107.20

SUBROUTINE ADDHYD     CROSS SECTION  13
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.51                          712.179                       (NULL)
              13.37                          801.107                       (NULL)

   TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=   2.90
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   8.00    DISCHG          .00        .00        .00        .00        .00        .03        .17        .58       1.39       2.56
  10.00    DISCHG         4.11       6.15       8.94      12.58      17.34      23.75      32.15      43.61      73.88     174.52
  12.00    DISCHG       375.75     602.77     710.75     711.03     701.22     733.41     784.59     800.37     768.10     696.82
  14.00    DISCHG       606.20     514.68     432.95     364.41     309.54     267.10     234.68     209.36     189.49     173.57
  16.00    DISCHG       160.57     149.90     141.06     133.62     127.36     122.15     117.59     113.31     109.32     105.69
  18.00    DISCHG       102.40      99.34      96.28      93.25      90.45      87.97      85.77      83.74      81.87      79.93
  20.00    DISCHG        77.90      76.07      74.64      73.45      72.03      70.17      68.46      67.46      67.00      66.23
  22.00    DISCHG        64.93      63.57      62.62      61.97      61.10      59.72      58.39      57.69      57.44      56.82
  24.00    DISCHG        55.45      52.99      48.61      43.01      37.71      33.13      28.87      24.12      19.10      14.36
  26.00    DISCHG        10.30       7.10       4.74       3.09       1.96       1.23        .76        .46        .27        .15
  28.00    DISCHG          .08        .04        .02        .01        .00
```

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5470 CFS-HRS= 2895.25 ACRE-FT= 239.26

SUBROUTINE SAVMOV CROSS SECTION 13
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

38

SUBROUTINE SAVMOV CROSS SECTION 127
INPUT HYDROGRAPH= 4 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 127
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.32	2207.862	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.91

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.03	.21	.85	2.34	4.92
10.00	DISCHG	8.69	13.84	20.69	29.48	40.82	55.53	74.71	100.61	161.40	356.71
12.00	DISCHG	748.69	1242.44	1637.13	1866.91	1987.88	2093.52	2189.48	2198.06	2097.27	1908.32
14.00	DISCHG	1670.55	1426.21	1202.47	1012.38	858.62	738.13	645.66	574.38	519.11	475.31
16.00	DISCHG	439.76	410.55	385.92	365.00	347.19	332.14	319.15	307.51	296.97	287.42
18.00	DISCHG	278.62	270.41	262.20	254.07	246.25	239.02	232.54	226.70	221.44	216.39
20.00	DISCHG	211.38	206.71	202.64	199.06	195.24	190.66	186.20	182.79	180.52	178.32
22.00	DISCHG	175.53	172.49	169.91	167.85	165.53	162.32	158.96	156.39	154.71	152.90
24.00	DISCHG	150.12	145.16	136.13	123.87	110.31	96.53	83.08	69.12	54.94	41.66
26.00	DISCHG	30.19	21.00	14.11	9.20	5.85	3.63	2.21	1.32	.77	.44
28.00	DISCHG	.24	.13	.06	.03	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5113 CFS-HRS= 7714.83 ACRE-FT= 637.55

SUBROUTINE REACH CROSS SECTION 24
LENGTH= 5200.00 INPUT COEFFICIENT= .4800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.569 AVERAGE ROUTING COEFF= .4800 NUMBER OF ROUTINGS= 2.21

SUBROUTINE RUNOFF CROSS SECTION 24
AREA= .79 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .64

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	351.728	(RUNOFF)
21.66	15.265	(RUNOFF)
23.66	13.150	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1614 CFS-HRS= 592.15 ACRE-FT= 48.93

SUBROUTINE ADDHYD CROSS SECTION 24
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

```
          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             14.11                          2083.042                      (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4795        CFS-HRS=      8306.72        ACRE-FT=      686.47

SUBROUTINE REACH      CROSS SECTION  28
          LENGTH=   5000.00      INPUT COEFFICIENT=   .5500      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   2.078        AVERAGE ROUTING COEFF=  .5500        NUMBER OF ROUTINGS=  1.84

SUBROUTINE RUNOFF     CROSS SECTION  28
          AREA=     .38      INPUT RUNOFF CURVE=  75.0      TIME OF CONCENTRATION=   .40

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.12                          207.699                      (RUNOFF)
             16.91                           11.551                      (RUNOFF)
             19.34                            8.604                      (RUNOFF)
             21.54                            7.520                      (RUNOFF)
             23.54                            6.501                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1647        CFS-HRS=       285.63        ACRE-FT=       23.60

SUBROUTINE ADDHYD     CROSS SECTION  28
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             14.76                          2012.717                      (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.4662        CFS-HRS=      8592.08        ACRE-FT=      710.05

SUBROUTINE REACH      CROSS SECTION 128
          LENGTH=  11600.00      INPUT COEFFICIENT=   .7100      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   4.162        AVERAGE ROUTING COEFF=  .7100        NUMBER OF ROUTINGS=  2.75

SUBROUTINE RUNOFF     CROSS SECTION  18
          AREA=     .14      INPUT RUNOFF CURVE=  76.0      TIME OF CONCENTRATION=   .14

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             11.96                          113.366                      (RUNOFF)
             13.90                            8.933                      (RUNOFF)
             14.90                            6.264                      (RUNOFF)
             16.91                            4.423                      (RUNOFF)
             17.90                            3.673                      (RUNOFF)
             19.31                            3.288                      (RUNOFF)
             20.30                            2.903                      (RUNOFF)
             21.33                            2.911                      (RUNOFF)
             22.30                            2.524                      (RUNOFF)
             23.33                            2.526                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2011        CFS-HRS=       108.52        ACRE-FT=        8.97
```

SUBROUTINE REACH CROSS SECTION 17
LENGTH= 2500.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .71

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .11 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .16

(40)

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.97	81.735	(RUNOFF)
14.90	4.764	(RUNOFF)
16.91	3.371	(RUNOFF)
19.31	2.507	(RUNOFF)
20.31	2.214	(RUNOFF)
21.36	2.218	(RUNOFF)
22.30	1.927	(RUNOFF)
23.35	1.925	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1406 CFS-HRS= 80.97 ACRE-FT= 6.69

SUBROUTINE ADDHYD CROSS SECTION 17
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	154.689	(NULL)
16.91	7.751	(NULL)
19.31	5.770	(NULL)
21.45	5.015	(NULL)
23.45	4.336	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .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	.02	.19	.80	1.56	3.14	5.08	22.86	87.30
12.00	DISCHG	153.93	112.79	63.90	44.38	30.89	25.46	21.11	18.54	16.97	15.04
14.00	DISCHG	14.21	13.10	12.37	11.88	11.24	10.97	10.28	9.80	9.35	8.70
16.00	DISCHG	8.41	8.02	7.77	7.70	7.70	7.72	7.40	7.16	6.93	6.60
18.00	DISCHG	6.45	6.08	5.81	5.74	5.73	5.74	5.74	5.75	5.60	5.27
20.00	DISCHG	5.12	5.08	5.08	4.91	4.58	4.43	4.74	5.00	4.92	4.60
22.00	DISCHG	4.45	4.42	4.41	4.24	3.90	3.75	4.06	4.32	4.24	3.92
24.00	DISCHG	3.76	1.94	.57	.15	.04	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1927 CFS-HRS= 192.43 ACRE-FT= 15.90

SUBROUTINE REACH CROSS SECTION 25
LENGTH= 2300.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.633 AVERAGE ROUTING COEFF= .4900 NUMBER OF ROUTINGS= .96

```
SUBROUTINE RUNOFF    CROSS SECTION  25
           AREA=     .21      INPUT RUNOFF CURVE=  75.0      TIME OF CONCENTRATION=    .39

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.11                           114.148                      (RUNOFF)
              16.91                             6.383                      (RUNOFF)
              19.34                             4.755                      (RUNOFF)
              21.54                             4.159                      (RUNOFF)
              23.54                             3.602                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1641        CFS-HRS=       157.77        ACRE-FT=       13.04

SUBROUTINE ADDHYD    CROSS SECTION  25
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.21                           211.815                      (NULL)
              21.60                             8.987                      (NULL)
              23.60                             7.749                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.1829        CFS-HRS=       351.17        ACRE-FT=       29.02

SUBROUTINE REACH     CROSS SECTION  29
           LENGTH=   4100.00      INPUT COEFFICIENT=   .5500      INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=   2.078        AVERAGE ROUTING COEFF=  .5500        NUMBER OF ROUTINGS=  1.51

SUBROUTINE RUNOFF    CROSS SECTION  29
           AREA=     .70      INPUT RUNOFF CURVE=  76.0      TIME OF CONCENTRATION=    .40

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.11                           405.177                      (RUNOFF)
              16.91                            21.925                      (RUNOFF)
              19.34                            16.306                      (RUNOFF)
              21.54                            14.236                      (RUNOFF)
              23.54                            12.298                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2249        CFS-HRS=       553.35        ACRE-FT=       45.73

SUBROUTINE ADDHYD    CROSS SECTION  29
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.16                           449.188                      (NULL)
              21.53                            22.923                      (NULL)
              23.53                            19.747                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.2071        CFS-HRS=       903.69        ACRE-FT=       74.68

SUBROUTINE REACH     CROSS SECTION  32
           LENGTH=  14000.00      INPUT COEFFICIENT=   .5500      INPUT ROUTINGS=   .00
```

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 5.15

SUBROUTINE RUNOFF CROSS SECTION 32
AREA= 1.98 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= 1.85

(42)

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.06	491.375	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2823 CFS-HRS= 1638.61 ACRE-FT= 135.41

SUBROUTINE ADDHYD CROSS SECTION 32
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.59	619.407	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2535 CFS-HRS= 2540.10 ACRE-FT= 209.91

SUBROUTINE SAVMOV CROSS SECTION 32
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 128
INPUT HYDROGRAPH= 4 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 128
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.41	2234.497	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 12.22

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	.01	.05	.18	.60	1.28	2.93	5.69	9.85	27.72	61.16
12.00	DISCHG	123.71	227.31	372.74	545.96	686.65	803.12	903.39	1018.57	1131.76	1253.94
14.00	DISCHG	1393.35	1553.88	1719.91	1878.02	2020.21	2132.81	2206.65	2234.36	2210.37	2137.53
16.00	DISCHG	2022.67	1876.75	1713.06	1543.69	1378.75	1226.00	1089.13	970.15	868.85	783.69
18.00	DISCHG	712.90	654.37	605.82	565.31	531.22	502.25	477.63	456.39	437.99	421.80
20.00	DISCHG	407.39	394.34	382.25	371.01	360.50	350.61	341.20	332.30	323.99	316.55
22.00	DISCHG	309.72	303.28	297.06	291.19	285.65	280.23	274.92	269.68	264.81	260.34
24.00	DISCHG	256.11	251.57	246.65	240.61	233.60	225.11	216.26	206.99	197.46	187.56
26.00	DISCHG	177.24	166.90	155.86	144.23	132.01	119.19	106.03	92.68	79.45	66.72
28.00	DISCHG	54.82	44.05	34.63	26.63	20.07	14.82	10.74	7.64	5.34	3.67
30.00	DISCHG	2.48	1.66	1.05	.71	.45	.29	.18	.11	.07	.04
32.00	DISCHG	.02	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4114 CFS-HRS= 11130.94 ACRE-FT= 919.86

SUBROUTINE REACH CROSS SECTION 35
LENGTH= 12000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 5.39

43

SUBROUTINE RUNOFF CROSS SECTION 35
AREA= 1.83 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.10

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.34	362.751	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1607 CFS-HRS= 1370.78 ACRE-FT= 113.28

SUBROUTINE ADDHYD CROSS SECTION 35
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
17.67	2040.989	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3787 CFS-HRS= 12500.94 ACRE-FT= 1033.08

SUBROUTINE SAVMOV CROSS SECTION 35
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 124
LENGTH= 4000.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.80	1261.009	4.58

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0407 CFS-HRS= 3725.52 ACRE-FT= 307.88

SUBROUTINE ADDHYD CROSS SECTION 124
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.85	1671.919	5.09
17.50	2200.422	5.75

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 19.60

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.07	.17	.73	1.68	4.12	13.69	34.21
12.00	DISCHG	77.67	139.50	262.72	466.83	725.18	1020.99	1286.86	1496.11	1622.94	1669.99
14.00	DISCHG	1653.63	1602.98	1537.35	1484.77	1454.09	1451.48	1471.79	1512.13	1568.84	1638.88
16.00	DISCHG	1720.17	1807.94	1899.05	1987.67	2069.17	2132.63	2175.49	2197.78	2197.40	2172.20
18.00	DISCHG	2121.67	2047.58	1953.21	1843.17	1723.02	1598.63	1474.78	1354.96	1241.77	1136.81

20.00	DISCHG	1041.27	955.42	879.25	812.25	753.72	702.83	658.79	620.76	587.84	559.44
22.00	DISCHG	534.65	512.97	493.75	476.56	461.03	446.86	433.83	421.79	410.71	400.41
24.00	DISCHG	390.81	381.56	372.41	363.01	353.45	343.30	333.08	322.69	312.35	302.39
26.00	DISCHG	292.66	283.25	274.09	264.92	255.86	246.58	237.29	227.76	218.06	208.11
28.00	DISCHG	197.86	187.31	176.39	165.13	153.50	141.57	129.40	117.11	104.87	92.84
30.00	DISCHG	81.21	70.16	59.86	50.42	41.93	34.44	27.94	22.38	17.72	13.87
32.00	DISCHG	10.73	8.21	6.21	4.65	3.45	2.53	1.84	1.33	.95	.67
34.00	DISCHG	.47	.33	.23	.16	.11	.07	.05	.03	.02	.01
36.00	DISCHG	.01	.00								

44

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2830 CFS-HRS= 16226.46 ACRE-FT= 1340.95

SUBROUTINE DIVERT CROSS SECTION 129
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,2

SUBROUTINE REACH CROSS SECTION 129
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
14.63	472.039	5.37
18.13	707.163	5.81

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5929 CFS-HRS= 4029.25 ACRE-FT= 332.98

SUBROUTINE RUNOFF CROSS SECTION 40
AREA= .67 INPUT RUNOFF CURVE= 69.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	200.232	(RUNOFF)
19.32	12.508	(RUNOFF)
21.65	10.769	(RUNOFF)
23.65	9.311	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8371 CFS-HRS= 361.94 ACRE-FT= 29.91

SUBROUTINE ADDHYD CROSS SECTION 129
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	200.232	4.75
14.61	498.711	5.41
18.12	721.341	5.84

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4826 CFS-HRS= 4391.19 ACRE-FT= 362.89

SUBROUTINE SAVMOV CROSS SECTION 129
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 126

INPUT HYDROGRAPH= 3 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 131
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.47	3044.133	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 18.17

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	.01	.03	.10	.24	.47	.80	1.25	1.85
10.00	DISCHG	2.64	3.70	5.16	7.26	10.32	14.73	20.93	29.40	43.70	87.55
12.00	DISCHG	190.80	310.37	377.70	481.37	692.64	1015.94	1418.46	1841.97	2239.79	2575.02
14.00	DISCHG	2823.29	2976.14	3039.11	3029.45	2967.80	2872.38	2756.96	2632.91	2511.15	2399.48
16.00	DISCHG	2301.61	2217.51	2143.84	2077.00	2014.59	1955.10	1897.16	1839.55	1781.99	1724.50
18.00	DISCHG	1667.23	1609.97	1551.88	1492.34	1430.87	1366.92	1299.69	1229.04	1156.30	1083.28
20.00	DISCHG	1012.04	944.60	883.21	829.15	781.54	739.42	701.69	667.14	635.01	604.70
22.00	DISCHG	576.43	550.75	527.89	507.67	489.52	473.08	458.45	445.38	432.95	420.35
24.00	DISCHG	407.57	394.92	382.39	371.34	361.82	352.32	340.99	326.10	306.70	282.89
26.00	DISCHG	255.56	226.18	196.55	168.35	142.87	120.73	102.02	86.41	73.40	62.44
28.00	DISCHG	53.05	44.84	37.57	31.11	25.39	20.39	16.09	12.49	9.53	7.15
30.00	DISCHG	5.28	3.84	2.75	1.95	1.36	.93	.63	.42	.28	.18
32.00	DISCHG	.11	.06	.03	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5543 CFS-HRS= 18228.58 ACRE-FT= 1506.41

SUBROUTINE REACH CROSS SECTION 132
LENGTH= 2100.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .60

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.67	3023.071	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5542 CFS-HRS= 18228.20 ACRE-FT= 1506.38

SUBROUTINE RUNOFF CROSS SECTION 19
AREA= .20 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.99	141.483	(RUNOFF)
16.91	6.294	(RUNOFF)
19.31	4.673	(RUNOFF)
20.31	4.123	(RUNOFF)
21.43	4.117	(RUNOFF)
22.31	3.583	(RUNOFF)
23.43	3.566	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2116 CFS-HRS= 156.39 ACRE-FT= 12.92

SUBROUTINE REACH CROSS SECTION 20
LENGTH= 3700.00 INPUT COEFFICIENT= .5600 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.164 AVERAGE ROUTING COEFF= .5600 NUMBER OF ROUTINGS= 1.33

46

SUBROUTINE RUNOFF CROSS SECTION 20
AREA= .68 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	387.647	(RUNOFF)
16.91	21.296	(RUNOFF)
19.34	15.838	(RUNOFF)
21.55	13.807	(RUNOFF)
23.55	11.930	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2231 CFS-HRS= 536.77 ACRE-FT= 44.36

SUBROUTINE ADDHYD CROSS SECTION 20
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.16	458.875	(NULL)
19.32	20.498	(NULL)
21.57	17.681	(NULL)
23.57	15.253	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .88

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.07	.71	2.37	4.76	8.63	14.83	34.59	175.15
12.00	DISCHG	390.65	455.36	314.85	223.31	156.77	115.34	92.83	76.24	67.89	59.73
14.00	DISCHG	54.06	50.26	46.44	44.35	41.93	40.15	38.48	36.28	34.92	32.72
16.00	DISCHG	31.00	29.76	28.48	27.85	27.61	27.54	27.07	26.10	25.47	24.36
18.00	DISCHG	23.47	22.60	21.42	20.83	20.57	20.49	20.47	20.49	20.38	19.50
20.00	DISCHG	18.70	18.33	18.18	18.00	17.07	16.25	16.39	17.28	17.67	16.99
22.00	DISCHG	16.27	15.94	15.80	15.61	14.67	13.83	13.95	14.86	15.24	14.56
24.00	DISCHG	13.75	10.83	5.36	2.34	.99	.41	.16	.06	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2214 CFS-HRS= 693.69 ACRE-FT= 57.33

SUBROUTINE REACH CROSS SECTION 33
LENGTH= 22800.00 INPUT COEFFICIENT= .4600 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.448 AVERAGE ROUTING COEFF= .4600 NUMBER OF ROUTINGS= 10.06

SUBROUTINE RUNOFF CROSS SECTION 33
AREA= 2.61 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= 3.96

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

14.73 362.507 (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2813 CFS-HRS= 2158.16 ACRE-FT= 178.35

47

SUBROUTINE ADDHYD CROSS SECTION 33
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.69	430.231	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2653 CFS-HRS= 2849.88 ACRE-FT= 235.51

SUBROUTINE SAVMOV CROSS SECTION 33
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 34
AREA= 3.23 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= 2.50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.52	630.796	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2807 CFS-HRS= 2669.66 ACRE-FT= 220.62

SUBROUTINE REACH CROSS SECTION 133
LENGTH= 5000.00 INPUT COEFFICIENT= .4600 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.448 AVERAGE ROUTING COEFF= .4600 NUMBER OF ROUTINGS= 2.21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.50	579.740	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2804 CFS-HRS= 2668.98 ACRE-FT= 220.56

SUBROUTINE ADDHYD CROSS SECTION 133
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.66	956.573	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 6.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	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	.01	.03	.18	.34	.53	1.58	3.11	4.86	10.73	26.25
12.00	DISCHG	43.61	67.30	114.09	176.03	252.71	349.04	463.30	582.69	697.56	786.56
14.00	DISCHG	860.94	919.34	947.13	955.99	953.99	939.86	913.13	884.71	855.91	820.00
16.00	DISCHG	782.35	742.72	703.70	665.08	624.99	584.64	547.51	511.03	479.75	443.84
18.00	DISCHG	414.39	387.02	362.34	340.88	321.19	303.08	287.65	273.45	260.26	248.63
20.00	DISCHG	238.29	228.61	219.65	211.87	204.60	197.77	191.76	186.16	180.81	175.85
22.00	DISCHG	171.39	167.11	163.00	159.46	156.09	152.86	149.85	146.99	144.17	141.37

24.00	DISCHG	138.51	135.70	132.92	129.76	126.45	122.90	118.77	113.79	108.24	102.13
26.00	DISCHG	95.23	88.01	80.66	73.42	66.42	59.61	53.21	47.48	42.04	36.85
28.00	DISCHG	32.44	28.36	24.50	21.08	18.16	15.48	13.05	11.11	9.38	7.85
30.00	DISCHG	6.60	5.57	4.67	3.90	3.31	2.79	2.34	2.00	1.70	1.44
32.00	DISCHG	1.22	1.05	.89	.75	.65	.56	.47	.41	.35	.30
34.00	DISCHG	.26	.22	.19	.16	.14	.11	.09	.07	.06	.05
36.00	DISCHG	.03	.03	.02	.01	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2725 CFS-HRS= 5518.87 ACRE-FT= 456.08

SUBROUTINE REACH CROSS SECTION 37
LENGTH= 17700.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.633 AVERAGE ROUTING COEFF= .4900 NUMBER OF ROUTINGS= 7.38

48

SUBROUTINE RUNOFF CROSS SECTION 37
AREA= 2.34 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.60

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.72	396.849	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1611 CFS-HRS= 1753.48 ACRE-FT= 144.91

SUBROUTINE ADDHYD CROSS SECTION 37
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

SUBROUTINE RUNOFF CROSS SECTION 36
AREA= 2.73 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .96

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	1065.554	(RUNOFF)
21.78	54.742	(RUNOFF)
23.77	47.013	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2803 CFS-HRS= 2255.77 ACRE-FT= 186.42

SUBROUTINE RESVOR STRUCTURE 36
SURFACE ELEVATION= .00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.32	131.983	5.60

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2803 CFS-HRS= 2255.79 ACRE-FT= 186.42

SUBROUTINE REACH CROSS SECTION 134
LENGTH= 15000.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

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

SUBROUTINE ADDHYD CROSS SECTION 134

INPUT HYDROGRAPHS= 5,7 OUTPUT HYDROGRAPH= 6

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.75	401.882	(NULL)
17.79	951.886	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9558 CFS-HRS= 7272.58 ACRE-FT= 601.01

49

SUBROUTINE REACH CROSS SECTION 130
LENGTH= 5500.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.633 AVERAGE ROUTING COEFF= .4900 NUMBER OF ROUTINGS= 2.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.92	1083.662	5.35
18.37	1447.008	5.81

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2055 CFS-HRS= 12196.84 ACRE-FT= 1007.95

SUBROUTINE ADDHYD CROSS SECTION 134
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
18.15	2377.373	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 27.47

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.05	.22	.55	1.64	4.71	9.12	33.17
12.00	DISCHG	58.72	110.41	174.27	257.60	366.50	494.90	631.98	789.67	936.17	1086.56
14.00	DISCHG	1207.39	1306.07	1371.25	1407.48	1427.21	1440.18	1453.50	1479.03	1517.25	1573.51
16.00	DISCHG	1643.22	1725.84	1815.81	1909.76	2003.82	2093.93	2177.32	2249.17	2307.48	2348.66
18.00	DISCHG	2372.20	2376.71	2362.19	2328.70	2277.11	2209.16	2127.13	2034.97	1935.96	1833.58
20.00	DISCHG	1730.27	1628.53	1530.06	1435.35	1344.99	1259.88	1180.98	1109.35	1045.60	989.26
22.00	DISCHG	939.82	896.33	858.05	824.26	794.30	767.62	743.75	722.28	702.86	685.15
24.00	DISCHG	668.95	653.79	639.09	624.08	608.52	592.80	576.33	559.86	543.19	526.48
26.00	DISCHG	510.10	493.90	478.24	463.14	448.46	434.47	420.55	406.95	393.15	379.23
28.00	DISCHG	364.92	350.20	334.98	319.23	302.97	286.19	269.00	251.42	233.59	215.58
30.00	DISCHG	197.57	179.70	162.13	145.06	128.65	113.08	98.49	85.01	72.71	61.65
32.00	DISCHG	51.82	43.21	35.75	29.38	23.99	19.47	15.73	12.66	10.15	8.13
34.00	DISCHG	6.50	5.20	4.17	3.34	2.69	2.18	1.77	1.44	1.18	.97
36.00	DISCHG	.80	.67	.56	.47	.39	.33	.27	.23	.20	.17
38.00	DISCHG	.14	.12	.10	.08	.06	.05	.04	.03	.02	.02
40.00	DISCHG	.01	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0983 CFS-HRS= 19469.42 ACRE-FT= 1608.95

SUBROUTINE SAVMOV CROSS SECTION 134
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 132
INPUT HYDROGRAPH= 3 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 135
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.73	4438.748	(NULL)
17.51	4142.130	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 45.64

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.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	.05	.14	.29	.53	.88	1.36
10.00	DISCHG	1.99	2.83	3.98	5.60	8.06	11.69	17.52	27.17	41.45	88.04
12.00	DISCHG	171.28	321.29	483.77	652.63	894.77	1252.21	1716.58	2266.80	2822.00	3353.09
14.00	DISCHG	3792.03	4124.58	4332.39	4426.45	4435.14	4387.04	4306.26	4218.37	4135.58	4073.39
16.00	DISCHG	4034.25	4020.88	4027.39	4047.64	4074.74	4102.35	4126.08	4139.71	4140.29	4123.89
18.00	DISCHG	4089.99	4037.20	3965.15	3873.24	3761.75	3631.90	3485.36	3325.50	3155.84	2981.09
20.00	DISCHG	2805.45	2633.42	2468.77	2313.90	2170.15	2037.87	1917.11	1807.84	1709.61	1621.20
22.00	DISCHG	1541.69	1470.35	1406.79	1350.43	1300.38	1255.65	1215.55	1179.60	1146.99	1116.63
24.00	DISCHG	1087.76	1059.89	1032.56	1005.46	979.10	953.58	926.98	898.33	865.96	829.29
26.00	DISCHG	788.84	745.40	700.75	656.60	614.39	575.50	539.91	507.92	478.70	451.89
28.00	DISCHG	426.68	402.60	379.22	356.25	333.59	311.17	289.06	267.26	245.89	224.98
30.00	DISCHG	204.63	184.92	165.94	147.79	130.58	114.43	99.42	85.65	73.14	61.93
32.00	DISCHG	52.00	43.32	35.81	29.41	23.99	19.47	15.73	12.66	10.15	8.13
34.00	DISCHG	6.50	5.20	4.17	3.34	2.69	2.18	1.77	1.44	1.18	.97
36.00	DISCHG	.80	.67	.56	.47	.39	.33	.27	.23	.20	.17
38.00	DISCHG	.14	.12	.10	.08	.06	.05	.04	.03	.02	.02
40.00	DISCHG	.01	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2799 CFS-HRS= 37697.62 ACRE-FT= 3115.33

SUBROUTINE REACH CROSS SECTION 136
LENGTH= 3100.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .89

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.04	4409.678	(NULL)
17.75	4136.879	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2798 CFS-HRS= 37695.23 ACRE-FT= 3115.13

SUBROUTINE RUNOFF CROSS SECTION 38
AREA= 1.23 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.66

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.71	203.416	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1595 CFS-HRS= 920.44 ACRE-FT= 76.07

SUBROUTINE ADDHYD CROSS SECTION 137
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

51

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.00	4542.169	(NULL)
17.72	4187.153	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 46.87

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	.01	.05	.12	.25	.47	.79
10.00	DISCHG	1.23	1.81	2.59	3.69	5.26	7.66	11.41	17.14	32.40	54.01
12.00	DISCHG	109.08	202.74	353.72	535.69	734.22	986.85	1336.01	1772.64	2292.07	2831.40
14.00	DISCHG	3352.56	3803.20	4152.62	4387.52	4510.55	4541.97	4510.13	4437.77	4349.46	4261.59
16.00	DISCHG	4187.99	4136.09	4107.76	4101.25	4110.25	4129.06	4151.18	4171.45	4184.52	4185.96
18.00	DISCHG	4172.62	4142.38	4094.16	4027.02	3940.47	3834.58	3710.15	3568.87	3413.36	3247.19
20.00	DISCHG	3074.41	2899.36	2726.33	2559.20	2400.78	2252.72	2115.89	1990.45	1876.51	1773.64
22.00	DISCHG	1680.99	1597.64	1522.78	1455.90	1396.40	1343.47	1296.22	1253.89	1215.90	1181.46
24.00	DISCHG	1149.62	1119.54	1090.46	1062.11	1033.75	1005.97	978.59	950.43	920.55	887.54
26.00	DISCHG	850.66	810.28	766.81	721.95	677.10	633.82	593.42	556.19	522.52	491.78
28.00	DISCHG	463.69	437.46	412.62	388.69	365.34	342.41	319.76	297.47	275.49	253.92
30.00	DISCHG	232.81	212.25	192.29	173.04	154.61	137.07	120.56	105.15	90.94	77.98
32.00	DISCHG	66.31	55.91	46.77	38.82	32.00	26.20	21.34	17.29	13.94	11.21
34.00	DISCHG	8.99	7.20	5.76	4.61	3.70	2.97	2.40	1.94	1.58	1.29
36.00	DISCHG	1.06	.88	.73	.60	.51	.42	.36	.30	.25	.21
38.00	DISCHG	.18	.15	.13	.10	.09	.07	.06	.04	.03	.03
40.00	DISCHG	.02	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2766 CFS-HRS= 38615.67 ACRE-FT= 3191.20

ENDCMP

PASS= 2

EXECUTIVE CONTROL CARD 278 OPERATION COMPUT, FROM XSECTN/STRUCT 42/ 0 TO XSECTN/STRUCT 137/ 0
STARTING TIME= .00 RAIN DEPTH= 2.50 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 1 STORM NO.= 2

52

SUBROUTINE RUNOFF CROSS SECTION 42
AREA= .21 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.20	65.861	(RUNOFF)
19.35	3.257	(RUNOFF)
21.59	2.831	(RUNOFF)
23.59	2.447	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7407 CFS-HRS= 100.38 ACRE-FT= 8.30

SUBROUTINE REACH CROSS SECTION 41
LENGTH= 1400.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= .38

SUBROUTINE RUNOFF CROSS SECTION 41
AREA= .15 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	56.637	(RUNOFF)
16.91	3.116	(RUNOFF)
19.33	2.332	(RUNOFF)
20.31	2.063	(RUNOFF)
21.48	2.057	(RUNOFF)
22.30	1.799	(RUNOFF)
23.48	1.787	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7391 CFS-HRS= 71.55 ACRE-FT= 5.91

SUBROUTINE ADDHYD CROSS SECTION 41
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.16	102.492	(NULL)
19.33	5.586	(NULL)
21.57	4.825	(NULL)
23.56	4.174	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .36

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.09	.72	5.15	38.47
12.00	DISCHG	90.63	101.87	77.34	56.89	39.16	29.77	23.80	19.93	17.75	15.57
14.00	DISCHG	14.31	13.23	12.35	11.81	11.15	10.75	10.25	9.74	9.37	8.75

16.00	DISCHG	8.35	7.98	7.68	7.52	7.46	7.45	7.29	7.07	6.90	6.58
18.00	DISCHG	6.38	6.10	5.82	5.66	5.59	5.58	5.58	5.58	5.54	5.29
20.00	DISCHG	5.11	5.00	4.96	4.90	4.64	4.45	4.52	4.72	4.82	4.63
22.00	DISCHG	4.47	4.37	4.33	4.27	4.00	3.80	3.87	4.08	4.17	3.97
24.00	DISCHG	3.80	2.79	1.47	.66	.26	.10	.04	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7395 CFS-HRS= 171.80 ACRE-FT= 14.20

53

SUBROUTINE REACH CROSS SECTION 101
LENGTH= 5800.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= 1.56

SUBROUTINE RUNOFF CROSS SECTION 45
AREA= .24 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	105.747	(RUNOFF)
16.91	5.754	(RUNOFF)
19.34	4.277	(RUNOFF)
21.55	3.727	(RUNOFF)
23.55	3.220	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9432 CFS-HRS= 146.09 ACRE-FT= 12.07

SUBROUTINE ADDHYD CROSS SECTION 101
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	143.065	(NULL)
21.59	8.299	(NULL)
23.58	7.146	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .60

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.06	.29	.75	1.33	2.27	3.77	9.09	47.64
12.00	DISCHG	108.48	141.42	132.03	124.57	104.04	81.68	63.24	49.29	40.55	34.06
14.00	DISCHG	29.78	26.78	24.37	22.78	21.34	20.27	19.32	18.32	17.57	16.60
16.00	DISCHG	15.78	15.05	14.36	13.88	13.56	13.36	13.14	12.83	12.56	12.13
18.00	DISCHG	11.75	11.32	10.82	10.46	10.19	10.02	9.92	9.88	9.83	9.59
20.00	DISCHG	9.34	9.13	8.95	8.80	8.49	8.21	8.11	8.21	8.30	8.20
22.00	DISCHG	8.06	7.93	7.80	7.66	7.35	7.06	6.96	7.07	7.15	7.04
24.00	DISCHG	6.88	6.04	4.41	3.08	1.93	1.07	.53	.25	.11	.04
26.00	DISCHG	.01	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9207 CFS-HRS= 317.78 ACRE-FT= 26.26

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 2900.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 44
AREA= .29 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .59

54

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	110.651	(RUNOFF)
21.63	4.417	(RUNOFF)
23.63	3.906	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9411 CFS-HRS= 176.14 ACRE-FT= 14.56

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 1500.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= .40

SUBROUTINE RUNOFF CROSS SECTION 43
AREA= .46 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.16	173.232	(RUNOFF)
19.35	7.664	(RUNOFF)
21.57	6.674	(RUNOFF)
23.57	5.771	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8384 CFS-HRS= 248.90 ACRE-FT= 20.57

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	265.027	(NULL)
19.32	12.833	(NULL)
21.60	11.009	(NULL)
23.60	9.494	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .75

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.12	.44	1.30	3.10	6.20	16.41	81.41
12.00	DISCHG	201.33	264.91	211.35	153.35	108.22	78.70	61.89	50.36	43.85	38.47
14.00	DISCHG	34.49	31.87	29.51	28.00	26.51	25.31	24.27	22.98	22.03	20.76
16.00	DISCHG	19.62	18.79	17.99	17.51	17.30	17.23	17.00	16.47	16.03	15.40
18.00	DISCHG	14.82	14.28	13.59	13.14	12.92	12.84	12.82	12.93	12.78	12.33
20.00	DISCHG	11.83	11.55	11.42	11.31	10.83	10.31	10.27	10.71	11.01	10.74
22.00	DISCHG	10.30	10.05	9.93	9.82	9.33	8.80	8.76	9.20	9.49	9.22
24.00	DISCHG	8.75	7.21	4.15	1.98	.87	.36	.15	.06	.02	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8780 CFS-HRS= 424.95 ACRE-FT= 35.12

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SUBROUTINE REACH      CROSS SECTION 104
          LENGTH=   9700.00      INPUT COEFFICIENT=   .7000      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   3.967        AVERAGE ROUTING COEFF=  .7000        NUMBER OF ROUTINGS=  2.38

SUBROUTINE RUNOFF     CROSS SECTION  46
          AREA=    .77      INPUT RUNOFF CURVE=  83.0      TIME OF CONCENTRATION=   .77

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.34                           286.309                      (RUNOFF)
             21.73                            12.322                      (RUNOFF)
             23.72                            10.576                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   1.0539        CFS-HRS=      523.70        ACRE-FT=      43.28

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

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.60                           393.189                      (NULL)
             21.71                            22.834                      (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .9664        CFS-HRS=      947.99        ACRE-FT=      78.34

SUBROUTINE SAVMOV     CROSS SECTION 104
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV     CROSS SECTION 102
          INPUT HYDROGRAPH= 1      OUTPUT HYDROGRAPH= 6

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

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.56                           523.787                       4.16
             21.72                            31.094                        .31
             23.68                            26.664                        .27

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .9247        CFS-HRS=     1265.16        ACRE-FT=     104.55

SUBROUTINE SAVMOV     CROSS SECTION 102
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF     CROSS SECTION   2
          AREA=    .38      INPUT RUNOFF CURVE=  79.0      TIME OF CONCENTRATION=   .63

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.25                           123.486                      (RUNOFF)
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21.65	5.419	(RUNOFF)
23.65	4.666	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8381 CFS-HRS= 205.54 ACRE-FT= 16.99

SUBROUTINE REACH CROSS SECTION 1
LENGTH= 900.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .15

56

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= .29 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .49

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.17	130.126	(RUNOFF)
19.33	5.332	(RUNOFF)
21.59	4.609	(RUNOFF)
23.59	3.973	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9990 CFS-HRS= 186.96 ACRE-FT= 15.45

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.22	245.269	(NULL)
19.30	11.668	(NULL)
21.62	9.997	(NULL)
23.62	8.608	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .67

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.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	.11	.38	.77	1.40	2.31	3.96	6.89	16.30	74.08
12.00	DISCHG	180.84	244.84	200.00	141.11	100.83	73.53	57.65	47.05	40.54	35.71
14.00	DISCHG	31.81	29.28	27.13	25.62	24.31	23.17	22.21	21.06	20.11	19.03
16.00	DISCHG	17.96	17.18	16.45	15.98	15.76	15.68	15.49	15.03	14.61	14.08
18.00	DISCHG	13.53	13.03	12.42	11.98	11.77	11.69	11.66	11.66	11.62	11.26
20.00	DISCHG	10.79	10.51	10.39	10.29	9.90	9.41	9.31	9.68	9.99	9.80
22.00	DISCHG	9.39	9.14	9.03	8.93	8.53	8.04	7.93	8.30	8.61	8.41
24.00	DISCHG	7.97	6.75	4.10	1.96	.88	.39	.17	.07	.03	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9076 CFS-HRS= 392.45 ACRE-FT= 32.43

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 7500.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.23

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          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.50                          220.306                          .84
             21.90                            9.882                          .05
             23.90                            8.499                          .05

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .8059        CFS-HRS=      391.71        ACRE-FT=      32.37

SUBROUTINE RUNOFF     CROSS SECTION   3
          AREA=     .51      INPUT RUNOFF CURVE=  78.0      TIME OF CONCENTRATION=    .38

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.12                          186.023                     (RUNOFF)
             16.91                           10.983                     (RUNOFF)
             19.34                            8.210                     (RUNOFF)
             21.54                            7.203                     (RUNOFF)
             23.53                            6.242                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .7887        CFS-HRS=      259.59        ACRE-FT=      21.45

SUBROUTINE RUNOFF     CROSS SECTION   4
          AREA=     .33      INPUT RUNOFF CURVE=  78.0      TIME OF CONCENTRATION=    .44

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.16                          116.390                     (RUNOFF)
             16.90                            7.100                     (RUNOFF)
             19.35                            5.309                     (RUNOFF)
             21.57                            4.630                     (RUNOFF)
             23.56                            4.010                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .7887        CFS-HRS=      167.98        ACRE-FT=      13.88

SUBROUTINE ADDHYD     CROSS SECTION 107
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

SUBROUTINE SAVMOV     CROSS SECTION 107
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF     CROSS SECTION   5
          AREA=    1.25      INPUT RUNOFF CURVE=  79.0      TIME OF CONCENTRATION=    .68

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.29                          382.319                     (RUNOFF)
             21.68                           17.722                     (RUNOFF)
             23.68                           15.263                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .8359        CFS-HRS=      674.36        ACRE-FT=      55.73

SUBROUTINE ADDHYD     CROSS SECTION 107
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
```

12.21	663.072	(NULL)
19.30	34.375	(NULL)
21.60	29.470	(NULL)
23.60	25.431	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 2.09

58

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.65	3.43	9.98	36.11	200.00
12.00	DISCHG	505.42	662.72	533.07	390.89	280.26	210.12	166.41	136.67	119.08	104.13
14.00	DISCHG	93.06	85.32	78.95	74.79	70.76	67.65	64.75	61.37	58.85	55.45
16.00	DISCHG	52.49	50.21	48.13	46.87	46.28	46.08	45.39	44.01	42.86	41.18
18.00	DISCHG	39.69	38.20	36.41	35.24	34.66	34.42	34.35	34.36	34.20	33.00
20.00	DISCHG	31.71	30.96	30.63	30.31	29.02	27.68	27.57	28.73	29.47	28.75
22.00	DISCHG	27.64	26.97	26.67	26.36	25.03	23.66	23.53	24.72	25.43	24.70
24.00	DISCHG	23.47	19.22	11.31	5.53	2.59	1.24	.58	.27	.13	.05
26.00	DISCHG	.02	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8170 CFS-HRS= 1101.92 ACRE-FT= 91.06

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 9000.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.47

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.58	578.878	1.54
21.94	29.080	.16
23.94	25.046	.14

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8158 CFS-HRS= 1100.34 ACRE-FT= 90.93

SUBROUTINE RUNOFF CROSS SECTION 10
AREA= 1.04 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .35

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	668.494	(RUNOFF)
16.90	29.156	(RUNOFF)
19.32	21.484	(RUNOFF)
21.52	18.738	(RUNOFF)
23.52	16.123	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2473 CFS-HRS= 837.18 ACRE-FT= 69.18

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	863.452	1.96
21.58	46.718	.26
23.57	40.072	.22

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9592 CFS-HRS= 1937.52 ACRE-FT= 160.12

59

SUBROUTINE SAVMOV CROSS SECTION 106
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 106
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	1014.245	2.15
21.63	56.277	.31
23.63	48.247	.27

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.10	.58	1.28	2.16	3.20	4.22	5.57
10.00	DISCHG	6.84	8.83	11.47	14.06	19.33	23.92	33.30	47.56	102.58	419.42
12.00	DISCHG	806.22	996.97	1013.72	983.46	783.53	591.77	446.81	346.65	284.81	239.15
14.00	DISCHG	210.13	187.87	170.49	158.79	148.27	140.92	133.89	127.20	121.85	114.92
16.00	DISCHG	109.44	104.05	99.15	95.73	93.30	91.85	90.28	88.43	86.59	83.53
18.00	DISCHG	80.94	77.80	74.50	71.96	69.89	68.57	67.88	67.61	67.30	65.73
20.00	DISCHG	64.23	62.58	61.18	60.09	58.14	56.39	55.53	55.74	56.27	55.98
22.00	DISCHG	55.43	54.30	53.15	52.17	50.21	48.48	47.59	47.74	48.24	47.96
24.00	DISCHG	47.38	41.50	31.76	22.57	13.44	6.99	3.41	1.63	.76	.35
26.00	DISCHG	.16	.06	.02	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9498 CFS-HRS= 2329.23 ACRE-FT= 192.49

SUBROUTINE DIVERT CROSS SECTION 106
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2400.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .49

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.51	603.221	(NULL)
21.75	33.672	(NULL)
23.75	28.861	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9456 CFS-HRS= 1391.41 ACRE-FT= 114.99

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.53	1126.029	5.79
21.73	64.764	.65
23.72	55.549	.56

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.40

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.03	.19	.53	.99	1.55	2.17	2.93
10.00	DISCHG	3.91	5.32	7.43	10.12	14.10	19.36	26.78	38.88	72.22	243.40
12.00	DISCHG	593.89	935.39	1101.16	1119.27	1022.61	840.36	654.52	505.23	398.40	325.34
14.00	DISCHG	274.52	239.57	213.66	194.96	180.92	169.81	160.86	152.69	145.45	138.32
16.00	DISCHG	131.21	124.77	118.77	113.75	110.03	107.49	105.54	103.52	101.37	98.70
18.00	DISCHG	95.59	92.34	88.74	85.34	82.56	80.45	79.09	78.34	77.88	76.92
20.00	DISCHG	75.29	73.52	71.82	70.35	68.62	66.54	64.94	64.38	64.63	64.73
22.00	DISCHG	64.26	63.38	62.23	61.05	59.45	57.41	55.80	55.22	55.44	55.50
24.00	DISCHG	54.96	51.81	43.97	33.72	23.41	14.48	8.07	4.20	2.08	.99
26.00	DISCHG	.45	.18	.06	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9355 CFS-HRS= 2656.58 ACRE-FT= 219.54

SUBROUTINE DIVERT CROSS SECTION 102
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,1

SUBROUTINE REACH CROSS SECTION 152
LENGTH= 10.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.33	312.978	5.23

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2433 CFS-HRS= 276.40 ACRE-FT= 22.84

SUBROUTINE SAVMOV CROSS SECTION 152
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 2.44 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.13

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	501.527	(RUNOFF)
21.78	32.983	(RUNOFF)
23.77	28.370	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7875 CFS-HRS= 1240.03 ACRE-FT= 102.48

SUBROUTINE REACH CROSS SECTION 110
LENGTH= 5500.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.80

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= .65 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .38

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	254.672	(RUNOFF)
16.91	14.527	(RUNOFF)
19.34	10.838	(RUNOFF)
21.54	9.496	(RUNOFF)
23.53	8.223	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8384 CFS-HRS= 351.70 ACRE-FT= 29.06

SUBROUTINE ADDHYD CROSS SECTION 110
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	281.048	(NULL)
13.19	479.793	(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	.08	.77	2.60	5.77	18.23	111.99
12.00	DISCHG	248.15	280.96	241.34	306.69	393.18	459.34	479.70	454.10	405.14	348.25
14.00	DISCHG	296.37	252.15	215.59	187.24	164.32	146.69	132.63	121.12	112.27	104.12
16.00	DISCHG	97.55	92.03	87.04	82.93	79.38	76.32	73.39	70.72	68.81	66.79
18.00	DISCHG	65.12	63.33	61.30	59.59	57.96	56.34	54.81	53.48	52.33	50.90
20.00	DISCHG	49.91	49.27	48.64	47.79	46.33	45.13	44.62	44.42	43.73	42.47
22.00	DISCHG	41.71	41.43	41.25	40.84	39.72	38.77	38.46	38.38	37.74	36.52
24.00	DISCHG	35.71	33.40	29.86	27.85	25.60	22.24	18.05	13.73	9.91	6.91
26.00	DISCHG	4.71	3.17	2.10	1.38	.91	.59	.37	.23	.14	.08
28.00	DISCHG	.04	.02	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7983 CFS-HRS= 1591.91 ACRE-FT= 131.56

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 11500.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 4.23

SUBROUTINE RUNOFF CROSS SECTION 22
AREA= 2.20 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .91

```
          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.45                           559.646                      (RUNOFF)
             21.78                            30.877                      (RUNOFF)
             23.76                            26.544                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .8355        CFS-HRS=     1186.20        ACRE-FT=      98.03

SUBROUTINE ADDHYD    CROSS SECTION 111
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.46                           564.098                       (NULL)
             14.57                           489.723                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .8134        CFS-HRS=     2776.82        ACRE-FT=     229.48

SUBROUTINE SAVMOV    CROSS SECTION 111
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 6

SUBROUTINE RUNOFF    CROSS SECTION  11
          AREA=    .15     INPUT RUNOFF CURVE=  80.0     TIME OF CONCENTRATION=   .29

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.03                            70.464                      (RUNOFF)
             16.91                             3.483                      (RUNOFF)
             19.32                             2.591                      (RUNOFF)
             20.31                             2.288                      (RUNOFF)
             21.48                             2.278                      (RUNOFF)
             23.48                             1.973                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .8882        CFS-HRS=       85.98        ACRE-FT=       7.11

SUBROUTINE REACH     CROSS SECTION 111
          LENGTH=  11500.00     INPUT COEFFICIENT=   .5500     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   2.078       AVERAGE ROUTING COEFF=  .5500       NUMBER OF ROUTINGS=  4.23

SUBROUTINE ADDHYD    CROSS SECTION 111
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.47                           566.006                       (NULL)
             14.53                           503.969                       (NULL)

   TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=   5.44
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    DISCHG          .00        .00        .00        .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        .08        .62       2.37       6.53      23.81      92.32
  12.00    DISCHG       254.45     456.09     558.88     537.40     475.37     429.23     412.34     405.72     412.36     431.10
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62

14.00	DISCHG	457.20	483.05	500.42	503.12	490.25	464.75	431.11	393.04	354.40	317.70
16.00	DISCHG	284.35	255.24	230.50	209.96	193.15	179.53	168.34	158.68	150.17	142.65
18.00	DISCHG	135.90	129.85	124.31	119.37	115.18	111.73	108.88	106.42	104.14	101.71
20.00	DISCHG	98.88	96.09	93.64	91.53	89.32	86.93	84.82	83.58	82.97	82.15
22.00	DISCHG	80.70	78.97	77.49	76.22	74.74	72.91	71.31	70.48	70.31	69.86
24.00	DISCHG	68.69	66.10	61.18	54.80	48.83	44.41	41.03	37.99	35.14	32.37
26.00	DISCHG	29.49	26.37	23.02	19.53	16.08	12.86	10.01	7.60	5.64	4.11
28.00	DISCHG	2.94	2.07	1.44	.98	.66	.44	.29	.18	.11	.07
30.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8154 CFS-HRS= 2862.62 ACRE-FT= 236.57

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 9200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.88

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.01	519.210	(NULL)
15.02	497.648	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8154 CFS-HRS= 2862.63 ACRE-FT= 236.57

SUBROUTINE RUNOFF CROSS SECTION 21
AREA= 2.30 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.03

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.51	620.118	(RUNOFF)
21.80	34.322	(RUNOFF)
23.78	29.502	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9400 CFS-HRS= 1395.25 ACRE-FT= 115.30

SUBROUTINE ADDHYD CROSS SECTION 112
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.77	1016.621	(NULL)
14.91	592.641	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8524 CFS-HRS= 4257.88 ACRE-FT= 351.87

SUBROUTINE SAVMOV CROSS SECTION 112
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 100
LENGTH= 11300.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 4.15

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.84	310.027	1.33

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9523 CFS-HRS= 934.20 ACRE-FT= 77.20

(64)

SUBROUTINE ADDHYD CROSS SECTION 112
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.87	1085.741	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.26

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.02	.08
10.00	DISCHG	.19	.37	.71	1.47	3.14	6.06	10.78	18.16	39.88	113.02
12.00	DISCHG	290.92	556.25	817.54	1001.36	1080.22	1065.42	1016.39	972.59	938.93	907.93
14.00	DISCHG	874.54	842.45	814.77	791.11	767.87	739.78	704.42	662.17	615.03	565.36
16.00	DISCHG	515.90	469.04	426.31	388.57	356.32	329.24	306.68	287.80	271.75	257.79
18.00	DISCHG	245.38	234.29	224.21	215.00	206.72	199.42	193.16	187.87	183.29	179.04
20.00	DISCHG	174.80	170.55	166.36	162.39	158.61	154.79	151.05	147.83	145.35	143.44
22.00	DISCHG	141.65	139.58	137.23	134.80	132.38	129.82	127.21	124.89	123.14	121.84
24.00	DISCHG	120.51	117.87	112.60	104.54	94.78	84.52	75.07	66.97	59.87	53.38
26.00	DISCHG	47.33	41.75	36.60	31.78	27.22	22.90	18.84	15.16	11.92	9.16
28.00	DISCHG	6.89	5.08	3.68	2.62	1.84	1.27	.87	.58	.39	.25
30.00	DISCHG	.16	.10	.06	.04	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8688 CFS-HRS= 5192.07 ACRE-FT= 429.07

SUBROUTINE SAVMOV CROSS SECTION 112
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 13000.00 INPUT COEFFICIENT= .8500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 9.633 AVERAGE ROUTING COEFF= .8500 NUMBER OF ROUTINGS= 1.59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.91	795.775	(NULL)
21.99	64.651	(NULL)
23.94	55.457	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3964 CFS-HRS= 2379.10 ACRE-FT= 196.61

SUBROUTINE ADDHYD CROSS SECTION 113
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.89	1882.633	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 11.90

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

6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.01	.08	.28	.63	1.12	1.75
10.00	DISCHG	2.51	3.50	4.93	7.26	11.13	17.05	25.98	39.11	69.46	160.89
12.00	DISCHG	413.83	874.19	1375.04	1715.57	1867.64	1855.56	1754.06	1625.89	1506.68	1389.22
14.00	DISCHG	1265.32	1163.79	1086.83	1028.44	979.96	933.43	884.15	830.96	774.75	717.05
16.00	DISCHG	660.24	606.21	556.58	512.46	474.44	442.62	416.53	395.11	376.98	360.94
18.00	DISCHG	346.22	332.39	319.23	306.69	294.93	284.41	275.51	268.24	262.39	257.37
20.00	DISCHG	252.46	247.09	241.32	235.64	230.23	224.82	219.27	214.17	210.38	208.03
22.00	DISCHG	206.30	204.14	201.26	197.94	194.41	190.54	186.24	182.10	179.03	177.25
24.00	DISCHG	175.96	173.18	166.62	154.25	136.56	116.46	97.23	80.84	67.79	57.59
26.00	DISCHG	49.46	42.78	37.07	31.97	27.29	22.92	18.84	15.16	11.92	9.16
28.00	DISCHG	6.89	5.08	3.68	2.62	1.84	1.27	.87	.58	.39	.25
30.00	DISCHG	.16	.10	.06	.04	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9858 CFS-HRS= 7571.17 ACRE-FT= 625.68

SUBROUTINE DIVERT CROSS SECTION 113
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 3000.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.95	1861.605	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9859 CFS-HRS= 7571.28 ACRE-FT= 625.69

SUBROUTINE SAVMOV CROSS SECTION 114
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 3

SUBROUTINE REACH CROSS SECTION 151
LENGTH= 10.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

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

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE SAVMOV CROSS SECTION 151
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE ADDHYD CROSS SECTION 151
INPUT HYDROGRAPHS= 1,2 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.33	312.978	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2433 CFS-HRS= 276.40 ACRE-FT= 22.84

SUBROUTINE SAVMOV CROSS SECTION 151
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 23
AREA= .49 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .65

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.30	110.310	(RUNOFF)
21.66	6.041	(RUNOFF)
23.66	5.228	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6486 CFS-HRS= 205.12 ACRE-FT= 16.95

SUBROUTINE REACH CROSS SECTION 115
LENGTH= 3200.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 1.18

SUBROUTINE RUNOFF CROSS SECTION 27
AREA= .44 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	148.473	(RUNOFF)
16.91	8.439	(RUNOFF)
19.32	6.342	(RUNOFF)
20.32	5.615	(RUNOFF)
21.46	5.620	(RUNOFF)
22.31	4.908	(RUNOFF)
23.46	4.894	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6466 CFS-HRS= 183.60 ACRE-FT= 15.17

SUBROUTINE ADDHYD CROSS SECTION 115
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.07	160.911	(NULL)
12.57	131.040	(NULL)
21.42	11.438	(NULL)
23.42	9.907	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .93

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.02	5.91	68.94
12.00	DISCHG	154.99	138.51	121.20	130.80	114.15	98.64	80.51	65.84	55.66	46.27
14.00	DISCHG	40.96	36.27	32.94	30.76	28.45	27.22	25.59	24.37	23.44	21.88
16.00	DISCHG	21.08	20.06	19.24	18.74	18.36	18.10	17.54	17.16	16.84	16.15
18.00	DISCHG	15.79	15.09	14.51	14.16	13.87	13.65	13.51	13.45	13.29	12.76
20.00	DISCHG	12.57	12.38	12.20	11.94	11.32	11.07	11.29	11.44	11.34	10.92

22.00	DISCHG	10.86	10.77	10.64	10.40	9.78	9.53	9.77	9.91	9.80	9.37
24.00	DISCHG	9.27	6.92	5.00	3.91	2.73	1.72	1.01	.57	.31	.16
26.00	DISCHG	.08	.04	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6477 CFS-HRS= 388.72 ACRE-FT= 32.12

(67)

SUBROUTINE REACH CROSS SECTION 116
LENGTH= 11400.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 3.26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.37	121.501	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6484 CFS-HRS= 389.14 ACRE-FT= 32.16

SUBROUTINE RUNOFF CROSS SECTION 26
AREA= .94 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	315.161	(RUNOFF)
19.32	15.661	(RUNOFF)
21.63	13.450	(RUNOFF)
23.63	11.600	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8364 CFS-HRS= 507.41 ACRE-FT= 41.93

SUBROUTINE ADDHYD CROSS SECTION 116
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	317.974	(NULL)
21.53	25.206	(NULL)
23.54	21.785	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.87

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	.00	.00	.06	.57	2.17	5.35	16.81	83.53
12.00	DISCHG	220.93	314.61	279.68	234.42	218.59	204.02	194.35	183.55	170.29	153.89
14.00	DISCHG	135.83	119.23	104.08	91.69	81.71	73.72	67.61	62.35	58.27	54.65
16.00	DISCHG	51.35	48.83	46.49	44.59	43.20	42.08	40.97	39.61	38.49	37.31
18.00	DISCHG	36.11	35.06	33.78	32.70	31.93	31.29	30.74	30.29	29.87	29.10
20.00	DISCHG	28.23	27.68	27.30	26.91	26.15	25.24	24.87	25.08	25.18	24.70
22.00	DISCHG	24.04	23.66	23.42	23.15	22.50	21.69	21.39	21.64	21.76	21.30
24.00	DISCHG	20.58	18.89	15.27	12.13	10.11	8.36	6.75	5.30	4.00	2.87
26.00	DISCHG	1.97	1.29	.81	.49	.29	.16	.09	.05	.02	.01
28.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7429 CFS-HRS= 896.55 ACRE-FT= 74.09

SUBROUTINE SAVMOV CROSS SECTION 116
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 114
INPUT HYDROGRAPH= 3 OUTPUT HYDROGRAPH= 6

68

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.93	2069.508	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 13.77

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.01	.06	.23	.54	1.00	1.59
10.00	DISCHG	2.32	3.26	4.58	6.69	10.24	16.16	25.96	41.23	78.81	221.94
12.00	DISCHG	572.57	1075.60	1531.54	1866.19	2048.78	2062.52	1973.35	1840.96	1706.30	1572.00
14.00	DISCHG	1431.63	1308.00	1209.85	1134.49	1073.59	1018.60	963.89	906.40	846.85	785.89
16.00	DISCHG	725.56	668.32	615.28	567.90	526.99	492.53	463.92	439.99	419.93	402.20
18.00	DISCHG	385.95	370.85	356.25	342.47	329.75	318.29	308.44	300.31	293.69	287.71
20.00	DISCHG	281.89	276.08	270.03	263.94	257.70	251.39	245.50	240.50	236.49	233.31
22.00	DISCHG	230.77	228.33	225.39	221.90	217.78	213.18	208.69	204.76	201.54	198.99
24.00	DISCHG	196.86	192.75	183.50	169.42	151.02	129.77	108.71	90.17	74.99	62.97
26.00	DISCHG	53.43	45.71	39.28	33.72	28.73	24.16	19.94	16.11	12.74	9.85
28.00	DISCHG	7.45	5.52	4.02	2.88	2.03	1.41	.97	.65	.44	.28
30.00	DISCHG	.18	.11	.07	.04	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9529 CFS-HRS= 8467.83 ACRE-FT= 699.78

SUBROUTINE DIVERT CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 118
LENGTH= 5500.00 INPUT COEFFICIENT= .9100 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 17.189 AVERAGE ROUTING COEFF= .9100 NUMBER OF ROUTINGS= .40

SUBROUTINE RUNOFF CROSS SECTION 30
AREA= 1.79 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .65

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.27	558.694	(RUNOFF)
21.66	25.460	(RUNOFF)
23.66	21.946	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8350 CFS-HRS= 964.57 ACRE-FT= 79.71

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SUBROUTINE ADDHYD     CROSS SECTION 118
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.92                          2267.395                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .9393        CFS-HRS=      9432.22        ACRE-FT=      779.48

SUBROUTINE SAVMOV     CROSS SECTION 118
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 4

SUBROUTINE REACH      CROSS SECTION 150
           LENGTH=      10.00      INPUT COEFFICIENT=    .9000      INPUT ROUTINGS=    .00

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

      TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0         CFS-HRS=          .00         ACRE-FT=          .00

SUBROUTINE SAVMOV     CROSS SECTION 150
           INPUT HYDROGRAPH= 5      OUTPUT HYDROGRAPH= 2

SUBROUTINE ADDHYD     CROSS SECTION 150
           INPUT HYDROGRAPHS= 1,2      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.33                          312.978                        (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .2433        CFS-HRS=       276.40        ACRE-FT=       22.84

SUBROUTINE SAVMOV     CROSS SECTION 150
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 1

SUBROUTINE DIVERT     CROSS SECTION 119
           INPUT HYDROGRAPH= 4      OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH      CROSS SECTION 119
           LENGTH=    5600.00      INPUT COEFFICIENT=    .8200      INPUT ROUTINGS=    .00

           AVERAGE WATER VELOCITY=    7.744        AVERAGE ROUTING COEFF=  .8200        NUMBER OF ROUTINGS=    .82

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              13.13                         1583.587                         5.73

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    1.3594        CFS-HRS=      8190.87        ACRE-FT=      676.89

SUBROUTINE RUNOFF     CROSS SECTION  48
           AREA=    1.06      INPUT RUNOFF CURVE=  65.0      TIME OF CONCENTRATION=  1.24

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
```

12.93	52.165	(RUNOFF)
21.78	8.069	(RUNOFF)
23.76	7.058	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2971 CFS-HRS= 203.23 ACRE-FT= 16.79

70

SUBROUTINE ADDHYD CROSS SECTION 121
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.11	1633.351	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 10.40

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.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	.05	.18	.44	.84
10.00	DISCHG	1.38	2.06	2.93	4.15	6.04	9.33	15.49	26.78	48.34	115.97
12.00	DISCHG	343.23	773.88	1176.93	1428.37	1560.68	1625.97	1628.55	1583.45	1515.14	1441.32
14.00	DISCHG	1367.17	1285.42	1206.34	1139.76	1087.00	1044.85	1008.42	971.36	924.92	875.80
16.00	DISCHG	825.26	774.69	726.18	680.99	639.15	597.27	559.93	528.16	501.02	477.84
18.00	DISCHG	457.41	438.76	421.43	404.87	389.30	375.26	362.84	352.14	343.19	335.62
20.00	DISCHG	328.43	321.27	314.43	307.89	301.28	294.09	286.64	280.15	275.35	271.59
22.00	DISCHG	267.84	264.11	260.74	257.44	253.65	248.79	243.20	238.21	234.62	231.77
24.00	DISCHG	228.67	224.68	217.31	203.44	184.79	163.86	141.55	119.39	99.30	82.37
26.00	DISCHG	68.73	57.92	49.26	42.17	36.16	30.87	26.09	21.71	17.73	14.17
28.00	DISCHG	11.09	8.49	6.37	4.69	3.40	2.42	1.70	1.17	.80	.54
30.00	DISCHG	.36	.23	.15	.09	.06	.03	.00			

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2511 CFS-HRS= 8394.10 ACRE-FT= 693.69

SUBROUTINE REACH CROSS SECTION 122
LENGTH= 5000.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.70	1576.498	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2510 CFS-HRS= 8393.46 ACRE-FT= 693.64

SUBROUTINE RUNOFF CROSS SECTION 39
AREA= .81 INPUT RUNOFF CURVE= 65.0 TIME OF CONCENTRATION= .83

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.59	49.468	(RUNOFF)
21.76	6.221	(RUNOFF)
23.75	5.451	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2969 CFS-HRS= 155.20 ACRE-FT= 12.83

SUBROUTINE ADDHYD CROSS SECTION 122

INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.69	1601.099	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1821 CFS-HRS= 8548.66 ACRE-FT= 706.46

SUBROUTINE SAVMOV CROSS SECTION 122
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 3

SUBROUTINE RUNOFF CROSS SECTION 31
AREA= 1.70 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= 2.70

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.79	158.188	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6937 CFS-HRS= 761.07 ACRE-FT= 62.90

SUBROUTINE REACH CROSS SECTION 120
LENGTH= 5200.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.49

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.39	635.208	5.66

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3092 CFS-HRS= 1241.90 ACRE-FT= 102.63

SUBROUTINE ADDHYD CROSS SECTION 120
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.42	787.458	6.02

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.92

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.17	.54	1.94	9.55
12.00	DISCHG	17.15	43.27	134.19	306.84	498.24	654.56	750.24	787.09	763.07	706.73
14.00	DISCHG	631.68	551.33	475.12	403.34	341.13	290.90	248.49	212.75	183.88	161.05
16.00	DISCHG	141.44	122.59	105.28	88.52	73.14	61.16	53.88	49.65	46.52	44.34
18.00	DISCHG	42.30	40.58	38.95	37.44	36.07	34.72	33.57	32.41	31.42	30.46
20.00	DISCHG	29.58	28.77	27.97	27.22	26.47	25.86	25.28	24.73	24.23	23.74
22.00	DISCHG	23.33	22.92	22.57	22.23	21.88	21.53	21.19	20.85	20.51	20.16
24.00	DISCHG	19.81	19.34	18.80	18.11	17.14	16.15	14.71	13.28	11.79	10.28
26.00	DISCHG	8.85	7.54	6.27	5.31	4.36	3.68	3.08	2.57	2.17	1.79
28.00	DISCHG	1.52	1.25	1.05	.88	.73	.61	.50	.42	.35	.29
30.00	DISCHG	.24	.20	.16	.13	.11	.08	.07	.05	.04	.03
32.00	DISCHG	.02	.01	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3917 CFS-HRS= 2002.97 ACRE-FT= 165.53

SUBROUTINE DIVERT CROSS SECTION 123
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,2

72

SUBROUTINE REACH CROSS SECTION 123
LENGTH= 3500.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.57

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.12	185.656	3.64

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2089 CFS-HRS= 320.50 ACRE-FT= 26.49

SUBROUTINE ADDHYD CROSS SECTION 125
INPUT HYDROGRAPHS= 5,3 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.82	1759.975	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 13.58

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.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	.05	.15
10.00	DISCHG	.35	.67	1.12	1.71	2.50	3.60	5.30	8.20	13.45	23.99
12.00	DISCHG	55.77	143.94	334.78	630.74	958.06	1246.89	1474.74	1636.51	1730.13	1759.75
14.00	DISCHG	1738.16	1681.44	1601.37	1505.91	1405.10	1308.59	1222.28	1147.71	1084.42	1029.27
16.00	DISCHG	976.61	924.52	872.55	821.19	771.46	724.34	679.71	637.13	597.80	562.71
18.00	DISCHG	532.00	505.35	481.97	461.11	442.12	424.55	408.25	393.33	379.91	368.02
20.00	DISCHG	357.66	348.66	340.58	333.04	325.81	318.77	311.81	304.85	297.92	291.42
22.00	DISCHG	285.73	280.89	276.60	272.66	268.91	265.16	261.18	256.81	252.07	247.35
24.00	DISCHG	243.07	239.07	234.60	229.13	221.40	209.94	194.57	176.11	155.64	134.54
26.00	DISCHG	114.30	96.10	80.54	67.66	57.16	48.57	41.41	35.31	29.95	25.17
28.00	DISCHG	20.86	17.00	13.61	10.68	8.23	6.22	4.62	3.38	2.43	1.72
30.00	DISCHG	1.20	.83	.56	.38	.25	.16	.10	.06	.03	.01
32.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0117 CFS-HRS= 8869.16 ACRE-FT= 732.95

SUBROUTINE REACH CROSS SECTION 126
LENGTH= 5200.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.70

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.42	1707.598	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0117 CFS-HRS= 8869.15 ACRE-FT= 732.95

```
SUBROUTINE RUNOFF     CROSS SECTION   9
           AREA=    1.30      INPUT RUNOFF CURVE=  77.0      TIME OF CONCENTRATION=    .90

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.46                           284.200                      (RUNOFF)
              21.77                            17.027                      (RUNOFF)
              23.75                            14.692                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .7393        CFS-HRS=       620.24         ACRE-FT=       51.26


SUBROUTINE REACH      CROSS SECTION  15
           LENGTH=    7000.00      INPUT COEFFICIENT=    .6700      INPUT ROUTINGS=    .00

           AVERAGE WATER VELOCITY=    3.452        AVERAGE ROUTING COEFF=  .6700        NUMBER OF ROUTINGS=  1.89


SUBROUTINE RUNOFF     CROSS SECTION  15
           AREA=     .85      INPUT RUNOFF CURVE=  82.0      TIME OF CONCENTRATION=    .32

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.04                           439.893                      (RUNOFF)
              16.91                            21.105                      (RUNOFF)
              19.32                            15.653                      (RUNOFF)
              21.50                            13.740                      (RUNOFF)
              23.50                            11.871                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .9995        CFS-HRS=       548.30         ACRE-FT=       45.31


SUBROUTINE ADDHYD     CROSS SECTION  15
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.06                           449.034                       (NULL)
              12.96                           316.387                       (NULL)
              21.40                            31.156                       (NULL)
              23.40                            26.942                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .8421        CFS-HRS=      1168.50         ACRE-FT=       96.57


SUBROUTINE REACH      CROSS SECTION 127
           LENGTH=    8000.00      INPUT COEFFICIENT=    .6000      INPUT ROUTINGS=    .00

           AVERAGE WATER VELOCITY=    2.550        AVERAGE ROUTING COEFF=  .6000        NUMBER OF ROUTINGS=  2.61

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              13.08                           298.669                       (NULL)
              13.57                           302.620                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .8405        CFS-HRS=      1166.26         ACRE-FT=       96.38


SUBROUTINE RUNOFF     CROSS SECTION   8
           AREA=    1.48      INPUT RUNOFF CURVE=  82.0      TIME OF CONCENTRATION=    .74
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          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.32                          520.430                      (RUNOFF)
             21.71                           22.986                      (RUNOFF)
             23.70                           19.751                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .9955        CFS-HRS=      950.86        ACRE-FT=      79.58

SUBROUTINE REACH     CROSS SECTION  14
          LENGTH=  10600.00     INPUT COEFFICIENT=   .6000     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   2.550       AVERAGE ROUTING COEFF=  .6000       NUMBER OF ROUTINGS=  3.46

SUBROUTINE RUNOFF    CROSS SECTION  14
          AREA=   1.38     INPUT RUNOFF CURVE=  80.0     TIME OF CONCENTRATION=   .98

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.50                          357.362                      (RUNOFF)
             21.80                           20.000                      (RUNOFF)
             23.78                           17.171                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .8881        CFS-HRS=      790.96        ACRE-FT=      65.36

SUBROUTINE ADDHYD    CROSS SECTION  14
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             13.29                          525.735                      (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .9436        CFS-HRS=     1741.73        ACRE-FT=     143.94

SUBROUTINE SAVMOV    CROSS SECTION  14
          INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV    CROSS SECTION 127
          INPUT HYDROGRAPH= 4     OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD    CROSS SECTION 153
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 4

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             13.30                          824.096                      (NULL)

   TIME                                HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=   5.01
    .00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
   2.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
   4.00    DISCHG          .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
   6.00    DISCHG          .00       .00       .00       .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       .12       .73      2.30      5.44     10.76     24.34     72.84
  12.00    DISCHG       178.26    333.31    506.54    652.33    739.14    788.38    819.42    819.78    784.46    720.37
  14.00    DISCHG       638.43    552.20    471.15    401.12    343.61    297.75    262.12    234.56    213.13    196.08
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74

16.00	DISCHG	182.14	170.57	160.62	152.07	144.71	138.42	133.03	128.33	124.16	120.35
18.00	DISCHG	116.82	113.50	110.17	106.85	103.58	100.48	97.69	95.21	93.01	91.01
20.00	DISCHG	89.08	87.24	85.53	83.97	82.40	80.62	78.81	77.23	76.05	75.12
22.00	DISCHG	74.16	73.08	72.02	71.10	70.15	68.94	67.59	66.36	65.42	64.63
24.00	DISCHG	63.72	62.06	58.95	54.47	48.89	42.66	36.42	30.18	23.99	18.23
26.00	DISCHG	13.26	9.25	6.23	4.06	2.57	1.59	.96	.57	.33	.19
28.00	DISCHG	.10	.05	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8994 CFS-HRS= 2907.99 ACRE-FT= 240.32

75

SUBROUTINE RUNOFF CROSS SECTION 7
AREA= 1.60 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	458.974	(RUNOFF)
21.79	23.966	(RUNOFF)
23.76	20.559	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9419 CFS-HRS= 972.62 ACRE-FT= 80.38

SUBROUTINE REACH CROSS SECTION 13
LENGTH= 10200.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 3.33

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.30 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.44	383.765	(RUNOFF)
21.77	19.464	(RUNOFF)
23.75	16.733	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9412 CFS-HRS= 789.62 ACRE-FT= 65.25

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.62	409.624	(NULL)
13.40	474.852	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 2.90

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.09	.44	1.32	3.07	5.86	10.19	24.27	77.67
12.00	DISCHG	192.78	331.27	403.71	409.55	405.83	426.13	460.16	474.83	461.13	423.21
14.00	DISCHG	372.31	319.53	271.60	230.88	197.90	172.12	152.26	136.61	124.24	114.23
16.00	DISCHG	106.00	99.19	93.52	88.72	84.68	81.31	78.36	75.58	72.98	70.62
18.00	DISCHG	68.47	66.47	64.47	62.49	60.64	59.02	57.57	56.25	55.03	53.75

20.00	DISCHG	52.41	51.20	50.26	49.49	48.56	47.32	46.18	45.53	45.24	44.74
22.00	DISCHG	43.88	42.98	42.35	41.93	41.35	40.43	39.54	39.08	38.92	38.52
24.00	DISCHG	37.60	35.94	32.98	29.18	25.59	22.48	19.60	16.37	12.97	9.75
26.00	DISCHG	7.00	4.82	3.22	2.09	1.33	.83	.51	.31	.18	.10
28.00	DISCHG	.06	.03	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9416 CFS-HRS= 1762.33 ACRE-FT= 145.64

26

SUBROUTINE SAVMOV CROSS SECTION 13
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 127
INPUT HYDROGRAPH= 4 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 127
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.35	1296.518	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.91

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.09	.56	2.04	5.37	11.30	20.96	48.61	150.50
12.00	DISCHG	371.04	664.58	910.25	1061.88	1144.97	1214.51	1279.58	1294.61	1245.59	1143.58
14.00	DISCHG	1010.73	871.73	742.75	632.00	541.51	469.88	414.38	371.18	337.37	310.31
16.00	DISCHG	288.14	269.76	254.14	240.79	229.39	219.73	211.39	203.91	197.14	190.97
18.00	DISCHG	185.29	179.97	174.64	169.33	164.23	159.50	155.27	151.46	148.04	144.76
20.00	DISCHG	141.49	138.44	135.79	133.46	130.95	127.94	124.99	122.76	121.29	119.86
22.00	DISCHG	118.04	116.05	114.36	113.03	111.50	109.37	107.14	105.44	104.34	103.15
24.00	DISCHG	101.31	98.00	91.93	83.66	74.48	65.14	56.02	46.55	36.95	27.99
26.00	DISCHG	20.25	14.07	9.45	6.16	3.91	2.42	1.47	.88	.52	.29
28.00	DISCHG	.16	.08	.04	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9149 CFS-HRS= 4670.32 ACRE-FT= 385.96

SUBROUTINE REACH CROSS SECTION 24
LENGTH= 5200.00 INPUT COEFFICIENT= .4800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.569 AVERAGE ROUTING COEFF= .4800 NUMBER OF ROUTINGS= 2.21

SUBROUTINE RUNOFF CROSS SECTION 24
AREA= .79 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .64

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.29	180.726	(RUNOFF)
19.31	11.351	(RUNOFF)
21.66	9.751	(RUNOFF)
23.66	8.440	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6501 CFS-HRS= 331.46 ACRE-FT= 27.39

SUBROUTINE ADDHYD CROSS SECTION 24
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

77

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.16	1220.900	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8908 CFS-HRS= 5001.63 ACRE-FT= 413.33

SUBROUTINE REACH CROSS SECTION 28
LENGTH= 5000.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 1.84

SUBROUTINE RUNOFF CROSS SECTION 28
AREA= .38 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .40

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.15	109.678	(RUNOFF)
16.92	7.260	(RUNOFF)
19.35	5.462	(RUNOFF)
21.55	4.805	(RUNOFF)
23.54	4.173	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6514 CFS-HRS= 159.74 ACRE-FT= 13.20

SUBROUTINE ADDHYD CROSS SECTION 28
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.28	130.655	(NULL)
14.81	1179.189	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8808 CFS-HRS= 5161.25 ACRE-FT= 426.53

SUBROUTINE REACH CROSS SECTION 128
LENGTH= 11600.00 INPUT COEFFICIENT= .7100 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 4.162 AVERAGE ROUTING COEFF= .7100 NUMBER OF ROUTINGS= 2.75

SUBROUTINE RUNOFF CROSS SECTION 18
AREA= .14 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .14

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.97	63.325	(RUNOFF)
12.90	8.450	(RUNOFF)
13.91	5.002	(RUNOFF)
14.91	3.938	(RUNOFF)
15.90	3.013	(RUNOFF)
16.91	2.814	(RUNOFF)

17.90	2.347	(RUNOFF)
19.31	2.111	(RUNOFF)
20.31	1.869	(RUNOFF)
21.34	1.879	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6817 CFS-HRS= 61.59 ACRE-FT= 5.09

SUBROUTINE REACH CROSS SECTION 17
LENGTH= 2500.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .71

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .11 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .16

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.98	44.361	(RUNOFF)
14.90	2.959	(RUNOFF)
16.91	2.121	(RUNOFF)
19.31	1.593	(RUNOFF)
20.31	1.411	(RUNOFF)
21.36	1.417	(RUNOFF)
22.31	1.234	(RUNOFF)
23.36	1.236	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6375 CFS-HRS= 45.26 ACRE-FT= 3.74

SUBROUTINE ADDHYD CROSS SECTION 17
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	82.089	(NULL)
16.91	4.905	(NULL)
19.32	3.686	(NULL)
21.45	3.223	(NULL)
23.45	2.799	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .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	.00	.00	.00	.09	5.24	37.65
12.00	DISCHG	80.78	62.94	36.92	26.32	18.59	15.46	12.90	11.38	10.45	9.29
14.00	DISCHG	8.80	8.13	7.69	7.40	7.02	6.86	6.44	6.15	5.88	5.47
16.00	DISCHG	5.30	5.06	4.90	4.87	4.87	4.88	4.69	4.54	4.40	4.19
18.00	DISCHG	4.10	3.87	3.70	3.66	3.65	3.66	3.67	3.68	3.58	3.37
20.00	DISCHG	3.28	3.26	3.25	3.15	2.94	2.84	3.04	3.21	3.16	2.96
22.00	DISCHG	2.87	2.84	2.84	2.73	2.52	2.42	2.62	2.79	2.74	2.53
24.00	DISCHG	2.43	1.26	.37	.10	.03	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6724 CFS-HRS= 108.49 ACRE-FT= 8.97

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SUBROUTINE REACH      CROSS SECTION  25
          LENGTH=   2300.00      INPUT COEFFICIENT=   .4900      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   1.633        AVERAGE ROUTING COEFF=  .4900        NUMBER OF ROUTINGS=   .96

SUBROUTINE RUNOFF     CROSS SECTION  25
          AREA=    .21      INPUT RUNOFF CURVE=  75.0      TIME OF CONCENTRATION=   .39

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.15                           60.220                       (RUNOFF)
             16.92                            4.012                       (RUNOFF)
             19.35                            3.019                       (RUNOFF)
             21.54                            2.658                       (RUNOFF)
             23.54                            2.312                       (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6511        CFS-HRS=       88.24        ACRE-FT=       7.29

SUBROUTINE ADDHYD     CROSS SECTION  25
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.23                          110.544                        (NULL)
             21.60                            5.758                        (NULL)
             23.60                            4.988                        (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6646        CFS-HRS=      197.30        ACRE-FT=      16.30

SUBROUTINE REACH      CROSS SECTION  29
          LENGTH=   4100.00      INPUT COEFFICIENT=   .5500      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   2.078        AVERAGE ROUTING COEFF=  .5500        NUMBER OF ROUTINGS=  1.51

SUBROUTINE RUNOFF     CROSS SECTION  29
          AREA=    .70      INPUT RUNOFF CURVE=  76.0      TIME OF CONCENTRATION=   .40

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.14                          218.990                       (RUNOFF)
             16.92                           13.935                       (RUNOFF)
             19.35                           10.462                       (RUNOFF)
             21.55                            9.190                       (RUNOFF)
             23.54                            7.973                       (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6956        CFS-HRS=      314.22        ACRE-FT=      25.97

SUBROUTINE ADDHYD     CROSS SECTION  29
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.18                          237.499                        (NULL)
             21.53                           14.747                        (NULL)
             23.53                           12.762                        (NULL)
```

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6828 CFS-HRS= 511.14 ACRE-FT= 42.24

SUBROUTINE REACH CROSS SECTION 32
LENGTH= 14000.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 5.15

80

SUBROUTINE RUNOFF CROSS SECTION 32
AREA= 1.98 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= 1.85

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.09	264.623	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7395 CFS-HRS= 944.99 ACRE-FT= 78.09

SUBROUTINE ADDHYD CROSS SECTION 32
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.64	333.671	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7181 CFS-HRS= 1455.10 ACRE-FT= 120.25

SUBROUTINE SAVMOV CROSS SECTION 32
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 128
INPUT HYDROGRAPH= 4 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 128
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.47	1306.295	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 12.22

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	.10	.29	6.01	19.17
12.00	DISCHG	46.75	95.65	165.70	256.29	331.54	393.20	446.53	510.68	577.32	651.56
14.00	DISCHG	738.76	840.35	947.09	1050.52	1145.08	1222.52	1277.07	1304.09	1300.13	1266.54
16.00	DISCHG	1207.13	1128.15	1037.30	941.76	847.56	759.46	679.81	610.04	550.16	499.42
18.00	DISCHG	456.89	421.44	391.78	366.85	345.72	327.64	312.19	298.81	287.17	276.89
20.00	DISCHG	267.72	259.39	251.65	244.43	237.67	231.30	225.23	219.49	214.13	209.33
22.00	DISCHG	204.93	200.77	196.75	192.96	189.38	185.86	182.42	179.03	175.87	172.99
24.00	DISCHG	170.25	167.31	164.11	160.19	155.62	150.09	144.33	138.29	132.08	125.62
26.00	DISCHG	118.86	112.06	104.76	97.03	88.86	80.27	71.41	62.42	53.50	44.92
28.00	DISCHG	36.89	29.63	23.28	17.90	13.48	9.95	7.20	5.12	3.57	2.46

```
 30.00    DISCHG        1.66      1.11       .73       .47       .30       .19       .12       .07       .04       .02
 32.00    DISCHG         .00

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .8389        CFS-HRS=     6615.80        ACRE-FT=     546.73

SUBROUTINE REACH     CROSS SECTION  35
          LENGTH=  12000.00     INPUT COEFFICIENT=   .4500     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   1.391       AVERAGE ROUTING COEFF=  .4500       NUMBER OF ROUTINGS=  5.39

SUBROUTINE RUNOFF    CROSS SECTION  35
          AREA=   1.83     INPUT RUNOFF CURVE=  75.0     TIME OF CONCENTRATION=  2.10

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             13.40                        188.166                       (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6495        CFS-HRS=      767.07        ACRE-FT=      63.39

SUBROUTINE ADDHYD    CROSS SECTION  35
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             17.77                       1188.175                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .8142        CFS-HRS=     7382.37        ACRE-FT=     610.08

SUBROUTINE SAVMOV    CROSS SECTION  35
          INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH     CROSS SECTION 124
          LENGTH=   4000.00     INPUT COEFFICIENT=   .6000     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   2.550       AVERAGE ROUTING COEFF=  .6000       NUMBER OF ROUTINGS=  1.31

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             13.86                        540.928                        3.68

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .4698        CFS-HRS=     1681.91        ACRE-FT=     138.99

SUBROUTINE ADDHYD    CROSS SECTION 124
          INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             13.97                        752.313                        3.94
             17.71                       1241.015                        4.55

   TIME                              HYDROGRAPH, TZERO=    .00        DELTA T=  .20        DRAINAGE AREA=  19.60
    .00    DISCHG         .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
   2.00    DISCHG         .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
   4.00    DISCHG         .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
   6.00    DISCHG         .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
```

81

8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.02	.17	3.28	11.11
12.00	DISCHG	30.45	58.03	104.45	184.84	307.89	447.47	566.52	660.24	720.08	748.09
14.00	DISCHG	752.12	744.18	731.80	724.34	721.11	726.12	740.51	765.26	794.93	830.62
16.00	DISCHG	875.59	928.50	986.69	1045.89	1102.51	1152.42	1193.00	1222.38	1238.50	1239.47
18.00	DISCHG	1224.48	1194.22	1150.54	1096.12	1034.10	967.62	899.57	832.34	767.87	707.39
20.00	DISCHG	651.85	601.53	556.57	516.74	481.71	451.06	424.36	401.16	380.95	363.42
22.00	DISCHG	348.04	334.52	322.47	311.65	301.83	292.84	284.55	276.88	269.80	263.21
24.00	DISCHG	257.06	251.13	245.25	239.21	233.06	226.52	219.94	213.24	206.57	200.14
26.00	DISCHG	193.85	187.77	181.84	175.90	170.02	164.00	157.96	151.76	145.44	138.94
28.00	DISCHG	132.23	125.30	118.11	110.67	102.96	95.02	86.90	78.69	70.48	62.41
30.00	DISCHG	54.61	47.18	40.25	33.91	28.20	23.15	18.78	15.04	11.91	9.31
32.00	DISCHG	7.20	5.51	4.17	3.12	2.31	1.69	1.23	.89	.63	.45
34.00	DISCHG	.31	.22	.15	.10	.07	.05	.03	.02	.01	.01
36.00	DISCHG	.00									

82

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7167 CFS-HRS= 9064.28 ACRE-FT= 749.07

SUBROUTINE DIVERT CROSS SECTION 129
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,2

SUBROUTINE REACH CROSS SECTION 129
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
15.04	139.534	4.47
18.35	320.458	5.12

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5885 CFS-HRS= 1488.53 ACRE-FT= 123.01

SUBROUTINE RUNOFF CROSS SECTION 40
AREA= .67 INPUT RUNOFF CURVE= 69.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.34	81.816	(RUNOFF)
19.37	7.376	(RUNOFF)
21.66	6.414	(RUNOFF)
23.66	5.583	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4210 CFS-HRS= 182.02 ACRE-FT= 15.04

SUBROUTINE ADDHYD CROSS SECTION 129
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.34	81.816	4.27
14.88	153.817	4.52
18.34	328.399	5.13
23.60	5.685	4.02

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5640 CFS-HRS= 1670.55 ACRE-FT= 138.05

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SUBROUTINE SAVMOV     CROSS SECTION 129
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV     CROSS SECTION 126
           INPUT HYDROGRAPH= 3      OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD     CROSS SECTION 131
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              14.46                          1854.507                       (NULL)

   TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=  18.17
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    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          .04        .11        .26        .51        .86       1.36       2.03       2.98       4.56      12.39
  12.00    DISCHG        45.91      97.91     128.55     179.29     301.66     505.77     767.64    1049.40    1317.42    1543.83
  14.00    DISCHG      1710.89    1812.51    1852.37    1841.46    1792.68    1718.26    1630.01    1538.64    1452.57    1376.32
  16.00    DISCHG      1311.32    1256.88    1210.38    1169.44    1132.28    1098.32    1067.42    1038.59    1010.60     982.14
  18.00    DISCHG       952.53     921.49     888.67     853.88     816.99     778.12     738.33     698.72     659.73     621.71
  20.00    DISCHG       584.71     548.69     514.15     481.64     451.35     423.41     398.01     375.10     354.21     335.86
  22.00    DISCHG       321.06     309.50     300.50     293.36     287.38     282.17     277.71     273.84     269.99     265.68
  24.00    DISCHG       260.94     255.70     249.70     243.93     238.67     233.11     226.14     216.63     203.99     188.29
  26.00    DISCHG       170.16     150.60     130.84     112.03      95.03      80.26      67.77      57.36      48.69      41.40
  28.00    DISCHG        35.15      29.69      24.87      20.58      16.79      13.48      10.64       8.26       6.30       4.73
  30.00    DISCHG         3.49       2.54       1.82       1.29        .90        .62        .42        .28        .18        .12
  32.00    DISCHG          .07        .04        .02        .00

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .8987        CFS-HRS=     10539.70        ACRE-FT=      871.00

SUBROUTINE REACH      CROSS SECTION 132
           LENGTH=    2100.00      INPUT COEFFICIENT=    .6500      INPUT ROUTINGS=    .00

           AVERAGE WATER VELOCITY=    3.157        AVERAGE ROUTING COEFF=  .6500        NUMBER OF ROUTINGS=    .60

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              14.65                          1839.380                       (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .8987        CFS-HRS=     10539.49        ACRE-FT=      870.98

SUBROUTINE RUNOFF     CROSS SECTION 13
           AREA=     .20      INPUT RUNOFF CURVE=  76.0      TIME OF CONCENTRATION=    .23

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              12.01                           76.888                      (RUNOFF)
              16.91                            4.003                      (RUNOFF)
              19.32                            3.000                      (RUNOFF)
              20.31                            2.654                      (RUNOFF)
```

21.44	2.657	(RUNOFF)
22.31	2.318	(RUNOFF)
23.44	2.312	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6876 CFS-HRS= 88.75 ACRE-FT= 7.33

SUBROUTINE REACH CROSS SECTION 20
LENGTH= 3700.00 INPUT COEFFICIENT= .5600 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.164 AVERAGE ROUTING COEFF= .5600 NUMBER OF ROUTINGS= 1.33

84

SUBROUTINE RUNOFF CROSS SECTION 20
AREA= .68 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.15	209.378	(RUNOFF)
16.92	13.534	(RUNOFF)
19.35	10.162	(RUNOFF)
21.55	8.912	(RUNOFF)
23.55	7.735	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6946 CFS-HRS= 304.84 ACRE-FT= 25.19

SUBROUTINE ADDHYD CROSS SECTION 20
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	246.116	(NULL)
19.35	13.148	(NULL)
21.58	11.412	(NULL)
23.57	9.888	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .88

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.35	6.46	68.60
12.00	DISCHG	192.69	245.82	175.88	128.61	92.29	69.10	56.33	46.64	41.79	36.93
14.00	DISCHG	33.54	31.27	28.97	27.73	26.26	25.20	24.19	22.84	22.02	20.66
16.00	DISCHG	19.59	18.83	18.04	17.66	17.53	17.51	17.22	16.62	16.23	15.54
18.00	DISCHG	14.99	14.44	13.70	13.32	13.17	13.13	13.13	13.14	13.08	12.52
20.00	DISCHG	12.02	11.79	11.70	11.59	10.99	10.48	10.57	11.15	11.41	10.97
22.00	DISCHG	10.51	10.30	10.22	10.10	9.49	8.96	9.04	9.63	9.88	9.44
24.00	DISCHG	8.92	7.03	3.48	1.52	.64	.26	.10	.04	.02	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6939 CFS-HRS= 394.08 ACRE-FT= 32.57

SUBROUTINE REACH CROSS SECTION 33
LENGTH= 22800.00 INPUT COEFFICIENT= .4600 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.448 AVERAGE ROUTING COEFF= .4600 NUMBER OF ROUTINGS= 10.06

85

SUBROUTINE RUNOFF CROSS SECTION 33
AREA= 2.61 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= 3.96

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.85	199.313	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7389 CFS-HRS= 1244.59 ACRE-FT= 102.85

SUBROUTINE ADDHYD CROSS SECTION 33
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.76	235.972	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7271 CFS-HRS= 1637.74 ACRE-FT= 135.34

SUBROUTINE SAVMOV CROSS SECTION 33
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF CROSS SECTION 34
AREA= 3.23 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= 2.50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.61	341.798	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7386 CFS-HRS= 1539.66 ACRE-FT= 127.24

SUBROUTINE REACH CROSS SECTION 133
LENGTH= 5000.00 INPUT COEFFICIENT= .4600 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.448 AVERAGE ROUTING COEFF= .4600 NUMBER OF ROUTINGS= 2.21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.58	314.893	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7384 CFS-HRS= 1539.21 ACRE-FT= 127.20

SUBROUTINE ADDHYD CROSS SECTION 133
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.77	521.695	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 6.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.15	.37	.59	2.74	9.50
12.00	DISCHG	16.89	27.25	49.90	80.59	119.25	169.59	230.91	295.96	359.70	411.06
14.00	DISCHG	455.14	490.88	510.14	519.00	521.61	517.19	505.39	492.45	479.18	461.43
16.00	DISCHG	442.68	422.85	403.07	383.22	362.45	341.34	321.70	302.25	283.28	265.96
18.00	DISCHG	249.85	234.77	221.08	209.07	197.97	187.71	178.86	170.68	163.03	156.25
20.00	DISCHG	150.17	144.46	139.17	134.53	130.19	126.10	122.47	119.08	115.84	112.82
22.00	DISCHG	110.09	107.46	104.94	102.76	100.69	98.70	96.85	95.08	93.34	91.60
24.00	DISCHG	89.82	88.06	86.33	84.34	82.24	79.99	77.34	74.12	70.52	66.55
26.00	DISCHG	62.07	57.37	52.58	47.86	43.29	38.85	34.68	30.94	27.39	24.01
28.00	DISCHG	21.14	18.47	15.96	13.73	11.83	10.09	8.50	7.24	6.12	5.12
30.00	DISCHG	4.31	3.64	3.04	2.54	2.16	1.82	1.52	1.30	1.11	.94
32.00	DISCHG	.80	.68	.58	.49	.42	.36	.31	.26	.23	.20
34.00	DISCHG	.17	.15	.12	.10	.09	.07	.06	.05	.04	.03
36.00	DISCHG	.02	.02	.01	.01	.00					

86

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7325 CFS-HRS= 3176.96 ACRE-FT= 262.54

SUBROUTINE REACH CROSS SECTION 37
LENGTH= 17700.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.633 AVERAGE ROUTING COEFF= .4900 NUMBER OF ROUTINGS= 7.38

SUBROUTINE RUNOFF CROSS SECTION 37
AREA= 2.34 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.60

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.77	207.162	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6499 CFS-HRS= 981.45 ACRE-FT= 81.11

SUBROUTINE ADDHYD CROSS SECTION 37
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

SUBROUTINE RUNOFF CROSS SECTION 36
AREA= 2.73 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .96

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	573.923	(RUNOFF)
21.79	35.670	(RUNOFF)
23.77	30.762	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7382 CFS-HRS= 1300.59 ACRE-FT= 107.48

SUBROUTINE RESVOR STRUCTURE 36
SURFACE ELEVATION= .00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.67	104.041	4.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7386 CFS-HRS= 1301.25 ACRE-FT= 107.54

SUBROUTINE REACH CROSS SECTION 134
LENGTH= 15000.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

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

SUBROUTINE ADDHYD CROSS SECTION 134
INPUT HYDROGRAPHS= 5,7 OUTPUT HYDROGRAPH= 6

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.79	209.011	(NULL)
17.90	526.478	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5465 CFS-HRS= 4158.53 ACRE-FT= 343.66

SUBROUTINE REACH CROSS SECTION 130
LENGTH= 5500.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.633 AVERAGE ROUTING COEFF= .4900 NUMBER OF ROUTINGS= 2.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
18.59	890.768	5.11

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7487 CFS-HRS= 7575.65 ACRE-FT= 626.05

SUBROUTINE ADDHYD CROSS SECTION 134
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
18.36	1400.821	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 27.47

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.15	.66	1.72	11.96
12.00	DISCHG	22.65	46.63	76.40	116.90	169.06	229.48	302.04	393.34	479.81	564.61
14.00	DISCHG	630.20	682.85	718.00	739.77	755.17	768.88	783.83	804.81	831.59	867.00
16.00	DISCHG	909.18	958.00	1011.18	1067.54	1125.40	1182.75	1237.27	1285.86	1327.51	1360.33
18.00	DISCHG	1383.98	1397.50	1400.59	1393.01	1375.01	1347.33	1310.78	1266.21	1214.72	1158.43
20.00	DISCHG	1099.26	1039.81	982.20	927.73	877.01	830.22	787.46	748.61	713.59	682.11
22.00	DISCHG	652.87	624.90	598.23	573.17	549.92	528.55	509.02	491.19	474.88	459.92
24.00	DISCHG	446.15	433.28	421.25	409.78	398.63	387.84	376.90	366.14	355.37	344.64
26.00	DISCHG	334.14	323.77	313.75	304.09	294.68	285.71	276.77	268.03	259.14	250.16
28.00	DISCHG	240.91	231.37	221.50	211.25	200.65	189.69	178.43	166.89	155.15	143.28
30.00	DISCHG	131.38	119.54	107.89	96.55	85.64	75.28	65.57	56.59	48.39	41.02
32.00	DISCHG	34.47	28.73	23.76	19.51	15.92	12.91	10.43	8.38	6.72	5.37
34.00	DISCHG	4.29	3.43	2.74	2.20	1.77	1.43	1.16	.94	.77	.63
36.00	DISCHG	.52	.44	.36	.30	.25	.21	.18	.15	.13	.11
38.00	DISCHG	.09	.08	.06	.05	.04	.03	.02	.02	.01	.01
40.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6620 CFS-HRS= 11734.19 ACRE-FT= 969.71

SUBROUTINE SAVMOV CROSS SECTION 134
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 132
INPUT HYDROGRAPH= 3 OUTPUT HYDROGRAPH= 6

88

SUBROUTINE ADDHYD CROSS SECTION 135
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.72	2584.123	(NULL)
17.79	2367.551	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 45.64

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.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	.06	.15	.31	.57	.96	1.63	2.86	5.02	18.68
12.00	DISCHG	44.24	103.40	174.82	254.65	377.37	574.26	854.07	1201.45	1559.75	1900.43
14.00	DISCHG	2190.40	2390.11	2519.81	2577.63	2580.63	2545.56	2487.42	2422.51	2360.76	2312.63
16.00	DISCHG	2280.46	2265.52	2264.70	2274.64	2291.53	2311.88	2332.73	2350.46	2363.08	2367.54
18.00	DISCHG	2362.40	2346.04	2317.79	2277.11	2224.02	2159.24	2083.92	1999.84	1908.95	1813.89
20.00	DISCHG	1716.85	1620.52	1527.16	1438.51	1355.60	1278.84	1208.50	1144.54	1086.76	1034.76
22.00	DISCHG	987.80	945.40	907.34	873.34	842.91	815.54	790.86	768.60	748.31	729.32
24.00	DISCHG	711.17	693.48	676.07	658.81	642.04	625.82	608.90	590.61	569.78	546.02
26.00	DISCHG	519.66	491.21	461.89	432.87	405.10	379.51	356.11	335.10	315.93	298.36
28.00	DISCHG	281.85	266.09	250.79	235.75	220.92	206.21	191.70	177.36	163.29	149.49
30.00	DISCHG	136.04	122.99	110.41	98.36	86.92	76.18	66.18	57.00	48.67	41.20
32.00	DISCHG	34.58	28.80	23.80	19.53	15.92	12.91	10.43	8.38	6.72	5.37
34.00	DISCHG	4.29	3.43	2.74	2.20	1.77	1.43	1.16	.94	.77	.63
36.00	DISCHG	.52	.44	.36	.30	.25	.21	.18	.15	.13	.11
38.00	DISCHG	.09	.08	.06	.05	.04	.03	.02	.02	.01	.01
40.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7562 CFS-HRS= 22273.67 ACRE-FT= 1840.70

SUBROUTINE REACH CROSS SECTION 136
LENGTH= 3100.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .89

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.02	2564.613	(NULL)
18.05	2364.096	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7562 CFS-HRS= 22272.47 ACRE-FT= 1840.60

SUBROUTINE RUNOFF CROSS SECTION 38
AREA= 1.23 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.66

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.80	105.863	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6491 CFS-HRS= 515.29 ACRE-FT= 42.58

89

SUBROUTINE ADDHYD CROSS SECTION 137
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.99	2639.312	(NULL)
18.02	2392.870	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 46.87

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	.02	.05	.13	.27	.51	.86	1.48	5.22	10.57
12.00	DISCHG	28.83	61.31	121.76	201.85	295.26	423.47	614.28	873.28	1196.96	1542.44
14.00	DISCHG	1878.06	2167.90	2391.75	2541.74	2619.83	2639.16	2616.25	2565.41	2502.22	2438.49
16.00	DISCHG	2383.98	2343.98	2319.88	2310.83	2313.48	2324.67	2340.82	2358.72	2375.16	2387.35
18.00	DISCHG	2392.81	2389.37	2375.56	2350.29	2312.97	2263.46	2202.19	2130.23	2049.01	1960.52
20.00	DISCHG	1866.99	1770.77	1674.36	1580.05	1489.73	1404.63	1325.46	1252.52	1185.95	1125.58
22.00	DISCHG	1071.11	1021.93	977.53	937.60	901.81	869.74	840.91	814.93	791.47	770.10
24.00	DISCHG	750.22	731.35	712.95	694.94	676.89	659.22	641.80	623.88	604.81	583.61
26.00	DISCHG	559.77	533.51	505.11	475.71	446.26	417.81	391.25	366.78	344.66	324.50
28.00	DISCHG	306.08	288.90	272.64	256.98	241.69	226.68	211.84	197.20	182.76	168.57
30.00	DISCHG	154.65	141.07	127.87	115.11	102.88	91.23	80.24	69.99	60.53	51.90
32.00	DISCHG	44.12	37.19	31.09	25.80	21.26	17.40	14.16	11.46	9.24	7.42
34.00	DISCHG	5.94	4.75	3.80	3.04	2.44	1.96	1.58	1.27	1.03	.84
36.00	DISCHG	.69	.57	.47	.39	.33	.27	.23	.19	.16	.14
38.00	DISCHG	.12	.10	.08	.07	.06	.05	.04	.03	.02	.02
40.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7534 CFS-HRS= 22787.76 ACRE-FT= 1883.18

ENDCMP

PASS= 3

EXECUTIVE CONTROL CARD 279 OPERATION COMPUT, FROM XSECTN/STRUCT 42/ 0 TO XSECTN/STRUCT 137/ 0
STARTING TIME= .00 RAIN DEPTH= 2.00 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 1 STORM NO.= 3

90

SUBROUTINE RUNOFF CROSS SECTION 42
AREA= .21 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .50

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.22	36.778	(RUNOFF)
19.37	2.205	(RUNOFF)
21.60	1.929	(RUNOFF)
23.59	1.675	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4482 CFS-HRS= 60.74 ACRE-FT= 5.02

SUBROUTINE REACH CROSS SECTION 41
LENGTH= 1400.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= .38

SUBROUTINE RUNOFF CROSS SECTION 41
AREA= .15 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.07	31.626	(RUNOFF)
16.92	2.091	(RUNOFF)
19.33	1.580	(RUNOFF)
20.32	1.401	(RUNOFF)
21.49	1.402	(RUNOFF)
22.31	1.228	(RUNOFF)
23.48	1.223	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4466 CFS-HRS= 43.23 ACRE-FT= 3.57

SUBROUTINE ADDHYD CROSS SECTION 41
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	56.851	(NULL)
19.35	3.782	(NULL)
21.57	3.287	(NULL)
23.56	2.856	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .36

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.58	14.47
12.00	DISCHG	46.29	56.84	45.01	34.39	24.27	18.80	15.24	12.87	11.54	10.16
14.00	DISCHG	9.37	8.69	8.13	7.79	7.37	7.12	6.80	6.47	6.23	5.83

16.00	DISCHG	5.57	5.33	5.13	5.04	5.00	5.00	4.89	4.75	4.64	4.43
18.00	DISCHG	4.30	4.11	3.93	3.83	3.78	3.77	3.77	3.78	3.76	3.59
20.00	DISCHG	3.46	3.40	3.37	3.33	3.15	3.03	3.07	3.22	3.28	3.16
22.00	DISCHG	3.05	2.98	2.96	2.91	2.73	2.60	2.65	2.79	2.85	2.72
24.00	DISCHG	2.60	1.91	1.01	.45	.17	.07	.02	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4472 CFS-HRS= 103.90 ACRE-FT= 8.59

91

SUBROUTINE REACH CROSS SECTION 101
LENGTH= 5800.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= 1.56

SUBROUTINE RUNOFF CROSS SECTION 45
AREA= .24 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	65.466	(RUNOFF)
16.91	4.028	(RUNOFF)
19.35	3.015	(RUNOFF)
21.55	2.640	(RUNOFF)
23.55	2.288	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6048 CFS-HRS= 93.67 ACRE-FT= 7.74

SUBROUTINE ADDHYD CROSS SECTION 101
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	82.559	(NULL)
21.59	5.751	(NULL)
23.59	4.972	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.09	.58	3.01	23.42
12.00	DISCHG	60.76	81.55	75.46	72.54	61.98	49.91	39.60	31.48	26.32	22.35
14.00	DISCHG	19.70	17.81	16.27	15.26	14.33	13.65	13.03	12.37	11.88	11.24
16.00	DISCHG	10.70	10.22	9.76	9.45	9.24	9.12	8.97	8.77	8.59	8.30
18.00	DISCHG	8.04	7.76	7.42	7.18	7.00	6.89	6.83	6.80	6.78	6.61
20.00	DISCHG	6.44	6.29	6.18	6.08	5.87	5.67	5.61	5.69	5.75	5.68
22.00	DISCHG	5.59	5.49	5.41	5.31	5.10	4.90	4.83	4.91	4.97	4.89
24.00	DISCHG	4.78	4.19	3.04	2.11	1.32	.73	.36	.17	.07	.03
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5103 CFS-HRS= 197.59 ACRE-FT= 16.33

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 2900.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 44
AREA= .29 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	67.621	(RUNOFF)
19.33	3.642	(RUNOFF)
21.64	3.128	(RUNOFF)
23.63	2.704	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6037 CFS-HRS= 112.99 ACRE-FT= 9.34

SUBROUTINE REACH CROSS SECTION 103
LENGTH= 1500.00 INPUT COEFFICIENT= .6700 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.452 AVERAGE ROUTING COEFF= .6700 NUMBER OF ROUTINGS= .40

SUBROUTINE RUNOFF CROSS SECTION 43
AREA= .46 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.18	102.544	(RUNOFF)
16.91	7.043	(RUNOFF)
19.37	5.299	(RUNOFF)
21.57	4.639	(RUNOFF)
23.57	4.027	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5228 CFS-HRS= 155.20 ACRE-FT= 12.83

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	158.020	(NULL)
19.34	8.940	(NULL)
21.61	7.709	(NULL)
23.60	6.672	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .75

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.03	.24	3.57	35.22
12.00	DISCHG	109.24	157.27	130.41	97.29	70.04	51.71	41.13	33.73	29.53	26.01
14.00	DISCHG	23.38	21.66	20.09	19.10	18.11	17.32	16.63	15.76	15.13	14.27
16.00	DISCHG	13.50	12.95	12.41	12.09	11.95	11.91	11.76	11.40	11.11	10.68
18.00	DISCHG	10.29	9.92	9.45	9.14	8.99	8.94	8.93	8.94	8.91	8.60
20.00	DISCHG	8.25	8.06	7.98	7.90	7.57	7.21	7.19	7.49	7.71	7.52
22.00	DISCHG	7.22	7.05	6.97	6.89	6.55	6.18	6.15	6.46	6.67	6.48
24.00	DISCHG	6.16	5.08	2.93	1.40	.62	.26	.11	.04	.02	.00

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          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .5540        CFS-HRS=      268.14        ACRE-FT=      22.16

SUBROUTINE REACH     CROSS SECTION 104
          LENGTH=   9700.00     INPUT COEFFICIENT=   .7000     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   3.967       AVERAGE ROUTING COEFF=  .7000       NUMBER OF ROUTINGS=  2.38

SUBROUTINE RUNOFF    CROSS SECTION  46
          AREA=    .77     INPUT RUNOFF CURVE=  83.0     TIME OF CONCENTRATION=   .77

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.36                         182.071                      (RUNOFF)
             21.73                           8.882                      (RUNOFF)
             23.72                           7.646                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6938        CFS-HRS=      344.79        ACRE-FT=      28.49

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

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.62                         239.808                      (NULL)
             21.72                          16.236                      (NULL)
             23.54                          13.960                      (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6245        CFS-HRS=      612.59        ACRE-FT=      50.62

SUBROUTINE SAVMOV    CROSS SECTION 104
          INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV    CROSS SECTION 102
          INPUT HYDROGRAPH= 1     OUTPUT HYDROGRAPH= 6

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

          PEAK TIMES                  PEAK DISCHARGES                PEAK ELEVATIONS
             12.59                         314.430                        2.76
             21.72                          21.959                         .22
             23.70                          18.917                         .19

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .5919        CFS-HRS=      809.84        ACRE-FT=      66.93

SUBROUTINE SAVMOV    CROSS SECTION 102
          INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF    CROSS SECTION   2
          AREA=    .38     INPUT RUNOFF CURVE=  79.0     TIME OF CONCENTRATION=   .63
```

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.27	71.693	(RUNOFF)
19.31	4.378	(RUNOFF)
21.65	3.767	(RUNOFF)
23.65	3.255	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5229 CFS-HRS= 128.22 ACRE-FT= 10.60

94

SUBROUTINE REACH CROSS SECTION 1
LENGTH= 900.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .15

SUBROUTINE RUNOFF CROSS SECTION 1
AREA= .29 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .49

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.18	81.852	(RUNOFF)
19.35	3.794	(RUNOFF)
21.59	3.294	(RUNOFF)
23.59	2.848	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6493 CFS-HRS= 121.52 ACRE-FT= 10.04

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	147.971	(NULL)
19.33	8.172	(NULL)
21.62	7.038	(NULL)
23.62	6.082	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .67

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.42	1.23	5.07	35.52
12.00	DISCHG	101.00	147.03	123.76	89.40	65.15	48.23	38.31	31.55	27.38	24.23
14.00	DISCHG	21.67	19.99	18.56	17.57	16.69	15.93	15.30	14.52	13.89	13.15
16.00	DISCHG	12.43	11.90	11.41	11.09	10.95	10.90	10.77	10.46	10.18	9.81
18.00	DISCHG	9.44	9.10	8.68	8.37	8.23	8.18	8.16	8.17	8.14	7.89
20.00	DISCHG	7.57	7.38	7.29	7.23	6.95	6.61	6.55	6.81	7.04	6.90
22.00	DISCHG	6.61	6.44	6.36	6.30	6.02	5.67	5.60	5.86	6.08	5.94
24.00	DISCHG	5.63	4.77	2.89	1.38	.62	.27	.12	.05	.02	.01
26.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5775 CFS-HRS= 249.70 ACRE-FT= 20.64

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 7500.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

```
AVERAGE WATER VELOCITY=   6.800        AVERAGE ROUTING COEFF=  .8000        NUMBER OF ROUTINGS=  1.23

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.53                           129.808                          .60
   21.90                             6.956                          .04
   23.90                             6.004                          .03

TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .5764        CFS-HRS=       249.25        ACRE-FT=       20.60


SUBROUTINE RUNOFF    CROSS SECTION   3
           AREA=    .51     INPUT RUNOFF CURVE=  78.0     TIME OF CONCENTRATION=   .38

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.15                           107.846                       (RUNOFF)
   16.92                             7.451                       (RUNOFF)
   19.36                             5.619                       (RUNOFF)
   21.54                             4.958                       (RUNOFF)
   23.53                             4.314                       (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .4844        CFS-HRS=       159.45        ACRE-FT=       13.18


SUBROUTINE RUNOFF    CROSS SECTION   4
           AREA=    .33     INPUT RUNOFF CURVE=  78.0     TIME OF CONCENTRATION=   .44

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.18                            67.262                       (RUNOFF)
   16.91                             4.816                       (RUNOFF)
   19.36                             3.633                       (RUNOFF)
   21.57                             3.187                       (RUNOFF)
   23.56                             2.771                       (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .4847        CFS-HRS=       103.23        ACRE-FT=        8.53


SUBROUTINE ADDHYD    CROSS SECTION 107
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7


SUBROUTINE SAVMOV    CROSS SECTION 107
           INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 5


SUBROUTINE RUNOFF    CROSS SECTION   5
           AREA=   1.25     INPUT RUNOFF CURVE=  79.0     TIME OF CONCENTRATION=   .68

PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
   12.32                           217.365                       (RUNOFF)
   21.69                            12.317                       (RUNOFF)
   23.68                            10.649                       (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .5215        CFS-HRS=       420.74        ACRE-FT=       34.77


SUBROUTINE ADDHYD    CROSS SECTION 107
           INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7
```

95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.23	383.580	(NULL)
19.33	23.662	(NULL)
21.60	20.402	(NULL)
23.60	17.675	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 2.09

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	.02	5.91	80.03
12.00	DISCHG	263.48	381.38	319.55	241.53	176.81	134.76	108.13	89.66	78.68	69.19
14.00	DISCHG	62.12	57.13	52.98	50.29	47.67	45.65	43.76	41.54	39.88	37.63
16.00	DISCHG	35.66	34.14	32.77	31.94	31.57	31.46	31.01	30.10	29.34	28.21
18.00	DISCHG	27.21	26.20	24.99	24.21	23.82	23.67	23.64	23.66	23.56	22.75
20.00	DISCHG	21.87	21.36	21.15	20.93	20.05	19.14	19.07	19.88	20.40	19.91
22.00	DISCHG	19.15	18.70	18.49	18.29	17.38	16.43	16.34	17.17	17.67	17.17
24.00	DISCHG	16.33	13.38	7.88	3.86	1.81	.87	.41	.19	.09	.04
26.00	DISCHG	.01	.00								

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5067 CFS-HRS= 683.42 ACRE-FT= 56.48

SUBROUTINE REACH CROSS SECTION 106
LENGTH= 9000.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.47

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	333.883	1.10
21.94	20.132	.11
23.94	17.407	.10

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5061 CFS-HRS= 682.60 ACRE-FT= 56.41

SUBROUTINE RUNOFF CROSS SECTION 10
AREA= 1.04 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .35

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	448.996	(RUNOFF)
16.91	21.380	(RUNOFF)
19.33	15.832	(RUNOFF)
21.52	13.852	(RUNOFF)
23.52	11.946	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8513 CFS-HRS= 571.36 ACRE-FT= 47.22

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	530.926	1.46
21.58	33.205	.18

23.57 28.578 .16

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6208 CFS-HRS= 1253.95 ACRE-FT= 103.63

97

SUBROUTINE SAVMOV CROSS SECTION 106
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 106
INPUT HYDROGRAPH= 2 OUTPUT HYDROGRAPH= 6

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.30	617.700	1.60
21.62	39.926	.22
23.62	34.346	.19

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 3.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.02	.33
10.00	DISCHG	1.00	2.03	3.39	4.87	7.53	10.05	14.95	22.11	52.34	247.03
12.00	DISCHG	496.04	604.31	603.88	599.94	488.50	377.45	290.75	229.16	190.83	161.59
14.00	DISCHG	142.98	128.52	117.07	109.40	102.35	97.48	92.76	88.22	84.63	79.87
16.00	DISCHG	76.15	72.49	69.15	66.86	65.25	64.31	63.24	61.96	60.72	58.59
18.00	DISCHG	56.81	54.63	52.33	50.60	49.20	48.31	47.86	47.70	47.50	46.37
20.00	DISCHG	45.32	44.19	43.24	42.49	41.09	39.86	39.32	39.53	39.92	39.67
22.00	DISCHG	39.28	38.50	37.71	37.03	35.61	34.39	33.81	33.98	34.34	34.10
24.00	DISCHG	33.67	29.36	22.29	15.79	9.40	4.89	2.38	1.14	.53	.24
26.00	DISCHG	.11	.04	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6130 CFS-HRS= 1503.20 ACRE-FT= 124.22

SUBROUTINE DIVERT CROSS SECTION 106
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 2400.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .49

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.51	361.969	(NULL)
21.75	23.880	(NULL)
23.74	20.537	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6102 CFS-HRS= 897.83 ACRE-FT= 74.20

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

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

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	675.425	4.96
21.73	45.838	.46
23.72	39.452	.39

98

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 4.40

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
10.00	DISCHG	.37	.86	1.56	2.41	3.72	5.66	8.81	14.31	31.39	131.51
12.00	DISCHG	347.14	559.90	658.84	673.21	625.97	525.07	417.84	328.83	263.54	217.98
14.00	DISCHG	185.66	163.13	146.16	133.81	124.48	117.07	111.10	105.61	100.73	95.91
16.00	DISCHG	91.07	86.70	82.62	79.22	76.73	75.04	73.75	72.38	70.92	69.08
18.00	DISCHG	66.94	64.71	62.22	59.87	57.97	56.54	55.63	55.14	54.84	54.18
20.00	DISCHG	53.03	51.80	50.64	49.64	48.43	46.96	45.86	45.52	45.74	45.82
22.00	DISCHG	45.46	44.85	44.06	43.24	42.11	40.66	39.54	39.18	39.37	39.42
24.00	DISCHG	39.01	36.72	31.05	23.72	16.43	10.16	5.66	2.95	1.46	.69
26.00	DISCHG	.29	.12	.04	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6014 CFS-HRS= 1707.68 ACRE-FT= 141.12

SUBROUTINE DIVERT CROSS SECTION 102
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,1

SUBROUTINE REACH CROSS SECTION 152
LENGTH= 10.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COFFF= .9000 NUMBER OF ROUTINGS= .00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	87.689	4.56

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0490 CFS-HRS= 55.60 ACRE-FT= 4.59

SUBROUTINE SAVMOV CROSS SECTION 152
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 2.44 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.13

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.65	283.567	(RUNOFF)
21.79	22.684	(RUNOFF)
23.78	19.593	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4840 CFS-HRS= 762.15 ACRE-FT= 62.98

SUBROUTINE REACH CROSS SECTION 110
LENGTH= 5500.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.80

99

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= .65 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .38

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.14	151.116	(RUNOFF)
16.92	9.963	(RUNOFF)
19.35	7.494	(RUNOFF)
21.54	6.601	(RUNOFF)
23.53	5.738	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5227 CFS-HRS= 219.26 ACRE-FT= 18.12

SUBROUTINE ADDHYD CROSS SECTION 110
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	161.413	(NULL)
13.23	275.120	(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	.02	3.56	49.06
12.00	DISCHG	135.60	161.38	132.10	165.42	214.69	256.80	274.74	265.68	241.67	211.27
14.00	DISCHG	182.64	157.64	136.51	119.93	106.28	95.68	87.12	80.02	74.56	69.44
16.00	DISCHG	65.29	61.77	58.56	55.89	53.60	51.60	49.68	47.94	46.69	45.36
18.00	DISCHG	44.27	43.09	41.74	40.61	39.53	38.46	37.45	36.57	35.81	34.85
20.00	DISCHG	34.19	33.77	33.36	32.80	31.81	31.00	30.67	30.55	30.10	29.25
22.00	DISCHG	28.73	28.55	28.44	28.17	27.41	26.76	26.56	26.52	26.09	25.25
24.00	DISCHG	24.70	23.10	20.63	19.25	17.69	15.37	12.48	9.50	6.85	4.78
26.00	DISCHG	3.26	2.19	1.45	.96	.63	.41	.26	.16	.10	.06
28.00	DISCHG	.03	.01	.00							

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4922 CFS-HRS= 981.51 ACRE-FT= 81.11

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 11500.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 4.23

SUBROUTINE RUNOFF CROSS SECTION 22
AREA= 2.20 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .91

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.48	324.502	(RUNOFF)
21.78	21.455	(RUNOFF)
23.77	18.516	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5212 CFS-HRS= 740.02 ACRE-FT= 61.16

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

100

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	325.838	(NULL)
14.63	289.160	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5041 CFS-HRS= 1720.91 ACRE-FT= 142.22

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .15 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	42.505	(RUNOFF)
16.92	2.414	(RUNOFF)
19.33	1.810	(RUNOFF)
20.31	1.602	(RUNOFF)
21.48	1.598	(RUNOFF)
22.30	1.398	(RUNOFF)
23.48	1.390	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5613 CFS-HRS= 54.34 ACRE-FT= 4.49

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 11500.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 4.23

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	326.523	(NULL)
14.59	297.949	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.44

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.09	4.75	35.58

12.00	DISCHG	123.22	246.25	318.28	316.13	282.38	255.56	245.69	241.10	243.58	252.95
14.00	DISCHG	267.19	282.44	294.00	297.93	293.13	280.89	263.55	243.08	221.73	201.00
16.00	DISCHG	181.82	164.81	150.16	137.87	127.72	119.43	112.56	106.54	101.18	96.38
18.00	DISCHG	92.03	88.11	84.49	81.24	78.48	76.22	74.36	72.75	71.25	69.65
20.00	DISCHG	67.77	65.91	64.27	62.87	61.39	59.78	58.37	57.55	57.17	56.64
22.00	DISCHG	55.67	54.51	53.51	52.66	51.66	50.42	49.33	48.78	48.69	48.40
24.00	DISCHG	47.60	45.82	42.40	37.97	33.82	30.75	28.40	26.29	24.31	22.39
26.00	DISCHG	20.39	18.24	15.92	13.50	11.11	8.89	6.92	5.26	3.90	2.84
28.00	DISCHG	2.03	1.43	.99	.68	.46	.30	.20	.13	.08	.05
30.00	DISCHG	.03	.02	.01	.00						

101

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5056 CFS-HRS= 1775.21 ACRE-FT= 146.70

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 9200.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.88

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.05	300.442	(NULL)
15.08	294.362	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5056 CFS-HRS= 1775.20 ACRE-FT= 146.70

SUBROUTINE RUNOFF CROSS SECTION 21
AREA= 2.30 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.03

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.54	376.322	(RUNOFF)
21.80	24.298	(RUNOFF)
23.78	20.957	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6028 CFS-HRS= 894.83 ACRE-FT= 73.95

SUBROUTINE ADDHYD CROSS SECTION 112
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.80	603.046	(NULL)
14.95	358.655	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5345 CFS-HRS= 2670.03 ACRE-FT= 220.65

SUBROUTINE SAVMOV CROSS SECTION 112
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 108
LENGTH= 11300.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 4.15

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

13.87 189.524 1.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6148 CFS-HRS= 603.13 ACRE-FT= 49.84

SUBROUTINE ADDHYD CROSS SECTION 112
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

102

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.91	644.129	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 9.26

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.05	.16	.55	1.74	9.90	46.35
12.00	DISCHG	145.14	302.00	461.90	580.44	640.08	641.81	618.77	595.20	576.06	557.82
14.00	DISCHG	537.32	516.95	499.09	484.14	470.39	454.71	435.37	412.22	386.14	358.26
16.00	DISCHG	330.06	302.94	277.88	255.46	236.10	219.69	205.90	194.23	184.21	175.39
18.00	DISCHG	167.45	160.28	153.71	147.64	142.17	137.33	133.17	129.66	126.62	123.79
20.00	DISCHG	120.96	118.11	115.29	112.63	110.08	107.49	104.95	102.78	101.12	99.86
22.00	DISCHG	98.66	97.26	95.67	94.03	92.39	90.64	88.85	87.27	86.09	85.22
24.00	DISCHG	84.31	82.48	78.79	73.12	66.25	59.05	52.41	46.71	41.71	37.15
26.00	DISCHG	32.90	28.99	25.38	22.02	18.85	15.85	13.04	10.49	8.24	6.33
28.00	DISCHG	4.76	3.51	2.54	1.81	1.27	.88	.60	.40	.27	.17
30.00	DISCHG	.11	.07	.04	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5477 CFS-HRS= 3273.16 ACRE-FT= 270.49

SUBROUTINE SAVMOV CROSS SECTION 112
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 109
LENGTH= 13000.00 INPUT COEFFICIENT= .8500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 9.633 AVERAGE ROUTING COEFF= .8500 NUMBER OF ROUTINGS= 1.59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.94	577.811	(NULL)
22.02	45.748	(NULL)
23.97	39.376	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9704 CFS-HRS= 1653.39 ACRE-FT= 136.64

SUBROUTINE ADDHYD CROSS SECTION 113
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.93	1221.853	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 11.90

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

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.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	.17	.49	1.03	1.78	2.86	4.70	8.13	20.02	65.38
12.00	DISCHG	206.54	489.52	836.98	1096.67	1210.30	1217.94	1168.13	1084.29	978.99	879.76
14.00	DISCHG	797.22	732.40	683.09	645.72	615.47	587.64	559.05	528.61	496.47	463.19
16.00	DISCHG	430.03	398.07	368.31	341.55	318.28	298.67	282.51	269.16	257.74	247.51
18.00	DISCHG	238.01	228.96	220.26	211.90	204.02	196.96	191.00	186.15	182.26	178.93
20.00	DISCHG	175.64	172.01	168.10	164.24	160.58	156.90	153.09	149.61	147.06	145.53
22.00	DISCHG	144.41	142.95	140.98	138.71	136.30	133.64	130.67	127.80	125.70	124.54
24.00	DISCHG	123.69	121.76	117.11	108.32	95.75	81.52	67.97	56.45	47.27	40.10
26.00	DISCHG	34.39	29.70	25.70	22.16	18.90	15.85	13.04	10.49	8.24	6.33
28.00	DISCHG	4.76	3.51	2.54	1.81	1.27	.88	.60	.40	.27	.17
30.00	DISCHG	.11	.07	.04	.02	.01	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6415 CFS-HRS= 4926.55 ACRE-FT= 407.13

103

SUBROUTINE DIVERT CROSS SECTION 113
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 3000.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 15.300 AVERAGE ROUTING COEFF= .9000 NUMBER OF ROUTINGS= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.00	1216.089	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6415 CFS-HRS= 4926.53 ACRE-FT= 407.13

SUBROUTINE SAVMOV CROSS SECTION 114
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 3

SUBROUTINE REACH CROSS SECTION 151
LENGTH= 10.00 INPUT COEFFICIENT= .9000 INPUT ROUTINGS= .00

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

TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0 CFS-HRS= .00 ACRE-FT= .00

SUBROUTINE SAVMOV CROSS SECTION 151
INPUT HYDROGRAPH= 5 OUTPUT HYDROGRAPH= 2

SUBROUTINE ADDHYD CROSS SECTION 151
INPUT HYDROGRAPHS= 1,2 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	87.689	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0490 CFS-HRS= 55.60 ACRE-FT= 4.59

SUBROUTINE SAVMOV CROSS SECTION 151
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 1

SUBROUTINE RUNOFF CROSS SECTION 23
AREA= .49 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .65

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	56.345	(RUNOFF)
19.49	4.668	(RUNOFF)
21.67	4.027	(RUNOFF)
23.66	3.502	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3799 CFS-HRS= 120.14 ACRE-FT= 9.93

104

SUBROUTINE REACH CROSS SECTION 115
LENGTH= 3200.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 1.18

SUBROUTINE RUNOFF CROSS SECTION 27
AREA= .44 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	78.184	(RUNOFF)
16.92	5.529	(RUNOFF)
19.33	4.200	(RUNOFF)
20.32	3.732	(RUNOFF)
21.46	3.747	(RUNOFF)
22.31	3.280	(RUNOFF)
23.46	3.280	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3775 CFS-HRS= 107.20 ACRE-FT= 8.86

SUBROUTINE ADDHYD CROSS SECTION 115
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	82.925	(NULL)
12.60	70.555	(NULL)
21.43	7.617	(NULL)
23.42	6.633	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .93

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.21	22.29
12.00	DISCHG	77.56	72.96	63.16	70.55	63.10	56.27	47.10	39.37	33.93	28.60
14.00	DISCHG	25.63	22.89	20.92	19.63	18.23	17.49	16.49	15.74	15.17	14.18

16.00	DISCHG	13.69	13.05	12.53	12.22	11.99	11.84	11.49	11.25	11.05	10.60
18.00	DISCHG	10.39	9.93	9.56	9.34	9.15	9.01	8.93	8.89	8.80	8.45
20.00	DISCHG	8.33	8.22	8.10	7.93	7.52	7.36	7.52	7.62	7.56	7.28
22.00	DISCHG	7.24	7.19	7.10	6.95	6.54	6.38	6.53	6.63	6.57	6.28
24.00	DISCHG	6.21	4.64	3.35	2.62	1.83	1.15	.68	.38	.21	.11
26.00	DISCHG	.05	.03	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3788 CFS-HRS= 227.34 ACRE-FT= 16.79

105

SUBROUTINE REACH CROSS SECTION 116
LENGTH= 11400.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 3.26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.46	64.062	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3798 CFS-HRS= 227.98 ACRE-FT= 18.84

SUBROUTINE RUNOFF CROSS SECTION 26
AREA= .94 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .58

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.25	183.871	(RUNOFF)
19.36	10.824	(RUNOFF)
21.63	9.348	(RUNOFF)
23.63	8.093	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5218 CFS-HRS= 316.56 ACRE-FT= 26.16

SUBROUTINE ADDHYD CROSS SECTION 116
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	184.683	(NULL)
21.54	17.152	(NULL)
23.55	14.894	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 1.87

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	.00	.00	.00	.00	.00	.02	3.02	34.32
12.00	DISCHG	115.12	181.02	164.27	135.53	124.75	115.64	110.33	104.94	98.60	90.51
14.00	DISCHG	81.25	72.61	64.46	57.66	52.06	47.47	43.91	40.74	38.26	36.00
16.00	DISCHG	33.92	32.33	30.84	29.64	28.77	28.08	27.39	26.51	25.79	25.02
18.00	DISCHG	24.23	23.55	22.70	21.99	21.50	21.09	20.74	20.46	20.20	19.69
20.00	DISCHG	19.11	18.74	18.50	18.25	17.74	17.13	16.88	17.05	17.14	16.82
22.00	DISCHG	16.38	16.12	15.96	15.79	15.35	14.79	14.59	14.78	14.88	14.57
24.00	DISCHG	14.08	12.90	10.38	8.20	6.81	5.62	4.53	3.55	2.68	1.93
26.00	DISCHG	1.32	.87	.55	.33	.19	.11	.06	.03	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4512 CFS-HRS= 544.54 ACRE-FT= 45.00

SUBROUTINE SAVMOV CROSS SECTION 116
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 114
INPUT HYDROGRAPH= 3 OUTPUT HYDROGRAPH= 6

106

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.98	1332.236	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 13.77

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.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	.14	.41	.89	1.59	2.60	4.25	7.30	20.12	88.54
12.00	DISCHG	286.96	600.97	915.80	1168.31	1307.07	1331.68	1290.71	1209.84	1103.49	994.68
14.00	DISCHG	898.78	820.96	759.69	712.58	674.97	641.95	609.99	576.84	542.63	507.38
16.00	DISCHG	472.11	438.26	406.47	377.77	352.78	331.58	313.87	298.95	286.34	275.05
18.00	DISCHG	264.58	254.73	245.10	235.95	227.46	219.79	213.21	207.80	203.41	199.44
20.00	DISCHG	195.56	191.65	187.56	183.44	179.22	174.93	170.91	167.52	164.82	162.72
22.00	DISCHG	161.06	159.43	157.43	155.06	152.24	148.09	145.99	143.28	141.10	139.40
24.00	DISCHG	137.97	135.13	128.64	118.68	105.64	90.64	75.84	62.83	52.21	43.79
26.00	DISCHG	37.12	31.72	27.23	23.36	19.89	16.71	13.79	11.14	8.81	6.80
28.00	DISCHG	5.15	3.82	2.78	1.99	1.41	.97	.67	.45	.30	.20
30.00	DISCHG	.13	.08	.05	.03	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6156 CFS-HRS= 5471.07 ACRE-FT= 452.13

SUBROUTINE DIVERT CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH CROSS SECTION 118
LENGTH= 5500.00 INPUT COEFFICIENT= .9100 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 17.189 AVERAGE ROUTING COEFF= .9100 NUMBER OF ROUTINGS= .40

SUBROUTINE RUNOFF CROSS SECTION 30
AREA= 1.79 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .65

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.30	324.090	(RUNOFF)
21.66	17.695	(RUNOFF)
23.66	15.311	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5209 CFS-HRS= 601.81 ACRE-FT= 49.73

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SUBROUTINE ADDHYD    CROSS SECTION 118
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.98                       1451.608                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6047        CFS-HRS=     6072.68        ACRE-FT=     501.85

SUBROUTINE SAVMOV    CROSS SECTION 118
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 4

SUBROUTINE REACH     CROSS SECTION 150
           LENGTH=     10.00      INPUT COEFFICIENT=   .9000      INPUT ROUTINGS=   .00

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

     TOTAL WATER, CANNOT BE COMPUTED WITH D.A.= 0.0         CFS-HRS=          .00         ACRE-FT=         .00

SUBROUTINE SAVMOV    CROSS SECTION 150
           INPUT HYDROGRAPH= 5      OUTPUT HYDROGRAPH= 2

SUBROUTINE ADDHYD    CROSS SECTION 150
           INPUT HYDROGRAPHS= 1,2      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              12.35                         87.689                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0490        CFS-HRS=       55.60        ACRE-FT=       4.59

SUBROUTINE SAVMOV    CROSS SECTION 150
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 1

SUBROUTINE DIVERT    CROSS SECTION 119
           INPUT HYDROGRAPH= 4      OUTPUT HYDROGRAPHS= 3,2

SUBROUTINE REACH     CROSS SECTION 119
           LENGTH=   5600.00      INPUT COEFFICIENT=   .8200      INPUT ROUTINGS=   .00

           AVERAGE WATER VELOCITY=   7.744        AVERAGE ROUTING COEFF=  .8200        NUMBER OF ROUTINGS=   .82

           PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
              13.19                       1182.418                       4.62

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .9469        CFS-HRS=     5705.28        ACRE-FT=     471.48

SUBROUTINE RUNOFF    CROSS SECTION  48
           AREA=   1.06      INPUT RUNOFF CURVE=  65.0      TIME OF CONCENTRATION=  1.24
```

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.17	17.050	(RUNOFF)
21.87	4.590	(RUNOFF)
23.79	4.065	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1349 CFS-HRS= 92.29 ACRE-FT= 7.63

108

SUBROUTINE ADDHYD CROSS SECTION 121
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.19	1199.458	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 10.40

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.02	.11	.33	.74	1.36	2.28	3.77	7.78	31.84
12.00	DISCHG	143.25	411.42	742.36	978.90	1108.47	1180.97	1199.37	1177.14	1130.53	1069.43
14.00	DISCHG	1001.83	928.46	858.30	800.92	755.82	720.09	689.91	662.07	633.39	599.54
16.00	DISCHG	562.98	525.85	489.83	455.91	425.01	397.99	374.92	355.31	338.45	323.93
18.00	DISCHG	310.99	299.04	287.81	276.97	266.69	257.39	249.13	242.01	236.08	231.08
20.00	DISCHG	226.32	221.56	216.99	212.61	208.17	203.34	198.30	193.91	190.67	188.16
22.00	DISCHG	185.67	183.21	180.97	178.76	176.20	172.91	169.10	165.69	163.23	161.30
24.00	DISCHG	159.23	156.55	151.53	141.95	128.98	114.35	98.71	83.18	69.13	57.30
26.00	DISCHG	47.78	40.22	34.18	29.23	25.05	21.37	18.05	15.02	12.26	9.80
28.00	DISCHG	7.66	5.87	4.41	3.24	2.35	1.67	1.17	.81	.55	.37
30.00	DISCHG	.25	.16	.10	.06	.04	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8641 CFS-HRS= 5797.57 ACRE-FT= 479.11

SUBROUTINE REACH CROSS SECTION 122
LENGTH= 5000.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.79	1156.140	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8641 CFS-HRS= 5797.49 ACRE-FT= 479.10

SUBROUTINE RUNOFF CROSS SECTION 39
AREA= .81 INPUT RUNOFF CURVE= 65.0 TIME OF CONCENTRATION= .83

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.80	15.234	(RUNOFF)
19.51	4.030	(RUNOFF)
21.77	3.546	(RUNOFF)
23.75	3.145	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1348 CFS-HRS= 70.49 ACRE-FT= 5.92

SUBROUTINE ADDHYD CROSS SECTION 122
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.78	1166.047	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8114 CFS-HRS= 5867.98 ACRE-FT= 484.93

SUBROUTINE SAVMOV CROSS SECTION 122
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 3

SUBROUTINE RUNOFF CROSS SECTION 31
AREA= 1.70 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= 2.70

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.87	86.828	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4132 CFS-HRS= 453.29 ACRE-FT= 37.46

SUBROUTINE REACH CROSS SECTION 120
LENGTH= 5200.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= 1.49

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.45	241.898	4.56

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0915 CFS-HRS= 367.43 ACRE-FT= 30.36

SUBROUTINE ADDHYD CROSS SECTION 120
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.47	324.640	4.87

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.92

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.01	.02	.55	4.14
12.00	DISCHG	7.73	16.08	34.66	80.49	155.38	235.77	293.71	322.34	318.21	293.47
14.00	DISCHG	253.34	209.15	172.34	142.76	119.56	101.60	86.60	74.08	62.86	53.71
16.00	DISCHG	47.83	43.70	40.90	38.38	36.27	34.33	32.57	31.09	29.63	28.48
18.00	DISCHG	27.32	26.31	25.34	24.44	23.60	22.78	22.07	21.35	20.74	20.14
20.00	DISCHG	19.60	19.10	18.60	18.14	17.67	17.28	16.91	16.56	16.23	15.92
22.00	DISCHG	15.65	15.39	15.16	14.94	14.72	14.49	14.27	14.05	13.83	13.60
24.00	DISCHG	13.37	13.06	12.70	12.24	11.58	10.92	9.95	8.98	7.97	6.95
26.00	DISCHG	5.99	5.10	4.24	3.59	2.95	2.49	2.08	1.74	1.47	1.21
28.00	DISCHG	1.03	.85	.71	.59	.49	.41	.34	.29	.23	.20
30.00	DISCHG	.16	.13	.11	.09	.07	.06	.05	.03	.03	.02

32.00 DISCHG .01 .01 .00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1605 CFS-HRS= 820.72 ACRE-FT= 67.82

SUBROUTINE DIVERT CROSS SECTION 123
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,2

SUBROUTINE REACH CROSS SECTION 123
LENGTH= 3500.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 1.57

110

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.05	18.527	3.09

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0120 CFS-HRS= 18.48 ACRE-FT= 1.53

SUBROUTINE ADDHYD CROSS SECTION 125
INPUT HYDROGRAPHS= 5,3 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.81	1180.634	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 13.58

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.03	.10	.27	.59	1.10	1.90	3.43
12.00	DISCHG	10.52	42.62	139.31	327.29	571.53	800.60	975.58	1093.21	1159.42	1180.50
14.00	DISCHG	1164.57	1120.72	1059.04	989.35	919.77	856.93	803.67	759.71	722.95	690.57
16.00	DISCHG	659.32	626.55	591.82	555.96	520.21	485.75	453.58	424.45	398.78	376.49
18.00	DISCHG	357.22	340.52	325.82	312.59	300.42	289.04	278.38	268.56	259.69	251.83
20.00	DISCHG	244.98	239.05	233.71	228.72	223.93	219.25	214.61	209.93	205.26	200.87
22.00	DISCHG	197.04	193.82	190.97	188.36	185.88	183.40	180.75	177.80	174.56	171.35
24.00	DISCHG	168.45	165.78	162.87	159.29	154.13	146.31	135.68	122.84	108.54	93.79
26.00	DISCHG	79.63	66.90	56.02	47.03	39.70	33.70	28.71	24.46	20.74	17.42
28.00	DISCHG	14.43	11.76	9.41	7.39	5.69	4.30	3.20	2.34	1.69	1.19
30.00	DISCHG	.83	.57	.39	.26	.17	.11	.07	.03	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6715 CFS-HRS= 5886.46 ACRE-FT= 486.46

SUBROUTINE REACH CROSS SECTION 126
LENGTH= 5200.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.70

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.42	1142.052	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6715 CFS-HRS= 5886.47 ACRE-FT= 486.46

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SUBROUTINE RUNOFF     CROSS SECTION   9
          AREA=   1.30      INPUT RUNOFF CURVE=  77.0      TIME OF CONCENTRATION=    .90

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.50                           156.412                      (RUNOFF)
             21.77                            11.596                      (RUNOFF)
             23.76                            10.050                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .4475        CFS-HRS=      375.41        ACRE-FT=      31.02


SUBROUTINE REACH      CROSS SECTION  15
          LENGTH=   7000.00      INPUT COEFFICIENT=   .6700      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   3.452        AVERAGE ROUTING COEFF=  .6700        NUMBER OF ROUTINGS=  1.89


SUBROUTINE RUNOFF     CROSS SECTION  15
          AREA=    .85      INPUT RUNOFF CURVE=  82.0      TIME OF CONCENTRATION=    .32

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.06                           275.920                      (RUNOFF)
             16.91                            14.921                      (RUNOFF)
             19.33                            11.141                      (RUNOFF)
             21.51                             9.821                      (RUNOFF)
             23.50                             8.511                      (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .6491        CFS-HRS=      356.05        ACRE-FT=      29.42


SUBROUTINE ADDHYD     CROSS SECTION  15
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.07                           278.959                       (NULL)
             13.00                           182.263                       (NULL)
             21.41                            21.645                       (NULL)
             23.41                            18.794                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .5272        CFS-HRS=      731.45        ACRE-FT=      60.45


SUBROUTINE REACH      CROSS SECTION 127
          LENGTH=   8000.00      INPUT COEFFICIENT=   .6000      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   2.550        AVERAGE ROUTING COEFF=  .6000        NUMBER OF ROUTINGS=  2.61

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             13.03                           179.461                       (NULL)
             13.55                           175.880                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .5264        CFS-HRS=      730.33        ACRE-FT=      60.35


SUBROUTINE RUNOFF     CROSS SECTION   8
          AREA=   1.48      INPUT RUNOFF CURVE=  82.0      TIME OF CONCENTRATION=    .74
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PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	324.276	(RUNOFF)
21.72	16.425	(RUNOFF)
23.70	14.164	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6471 CFS-HRS= 618.05 ACRE-FT= 51.08

SUBROUTINE REACH CROSS SECTION 14
LENGTH= 10600.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 3.46

112

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.38 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .98

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.54	213.095	(RUNOFF)
21.80	14.030	(RUNOFF)
23.78	12.089	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5621 CFS-HRS= 500.66 ACRE-FT= 41.37

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.33	326.496	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6061 CFS-HRS= 1118.67 ACRE-FT= 92.45

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 127
INPUT HYDROGRAPH= 4 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 153
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.33	501.695	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 5.01

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.01	.21	3.63	25.96
12.00	DISCHG	83.49	175.41	283.80	380.62	441.03	475.44	497.35	500.24	481.62	445.69
14.00	DISCHG	398.69	348.55	300.84	259.16	224.58	196.68	174.75	157.59	144.10	133.25

16.00	DISCHG	124.27	116.74	110.20	104.54	99.65	95.45	91.86	88.72	85.94	83.40
18.00	DISCHG	81.03	78.80	76.54	74.29	72.07	69.95	68.05	66.36	64.88	63.52
20.00	DISCHG	62.22	60.98	59.82	58.76	57.68	56.46	55.22	54.13	53.33	52.70
22.00	DISCHG	52.06	51.33	50.61	49.99	49.33	48.50	47.57	46.71	46.06	45.52
24.00	DISCHG	44.90	43.75	41.57	38.43	34.48	30.06	25.62	21.19	16.81	12.75
26.00	DISCHG	9.25	6.45	4.33	2.82	1.79	1.10	.66	.39	.23	.13
28.00	DISCHG	.07	.03	.01	.00						

113

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5719 CFS-HRS= 1849.01 ACRE-FT= 152.80

SUBROUTINE RUNOFF CROSS SECTION 7
AREA= 1.60 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .95

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.49	278.732	(RUNOFF)
21.79	16.968	(RUNOFF)
23.76	14.605	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6042 CFS-HRS= 623.86 ACRE-FT= 51.56

SUBROUTINE REACH CROSS SECTION 13
LENGTH= 10200.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 3.33

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.30 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= .90

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.46	233.451	(RUNOFF)
21.77	13.781	(RUNOFF)
23.75	11.888	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6037 CFS-HRS= 506.49 ACRE-FT= 41.86

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.67	245.170	(NULL)
13.45	292.251	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 2.90

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.15	.78	6.25	33.97
12.00	DISCHG	100.85	187.86	237.70	244.70	243.26	256.00	279.14	291.76	287.23	267.12
14.00	DISCHG	237.98	206.72	177.73	152.72	132.17	115.92	103.27	93.21	85.18	78.63
16.00	DISCHG	73.19	68.66	64.86	61.63	58.91	56.63	54.63	52.75	50.99	49.38
18.00	DISCHG	47.91	46.55	45.18	43.82	42.55	41.44	40.45	39.55	38.71	37.83

20.00	DISCHG	36.91	36.08	35.43	34.90	34.26	33.40	32.62	32.17	31.98	31.64
22.00	DISCHG	31.04	30.42	29.98	29.69	29.30	28.65	28.04	27.72	27.62	27.34
24.00	DISCHG	26.69	25.52	23.42	20.73	18.18	15.97	13.93	11.64	9.22	6.93
26.00	DISCHG	4.97	3.43	2.29	1.49	.95	.59	.37	.22	.13	.07
28.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6040 CFS-HRS= 1130.42 ACRE-FT= 93.42

114

SUBROUTINE SAVMOV CROSS SECTION 13
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 127
INPUT HYDROGRAPH= 4 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 127
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.38	792.219	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 7.91

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.16	.99	9.88	59.93
12.00	DISCHG	184.34	363.27	521.50	625.32	684.29	731.43	776.49	792.00	768.85	712.81
14.00	DISCHG	636.67	555.27	478.57	411.88	356.76	312.61	278.02	250.80	229.28	211.88
16.00	DISCHG	197.46	185.40	175.06	166.17	158.55	152.08	146.49	141.47	136.92	132.77
18.00	DISCHG	128.94	125.35	121.72	118.11	114.62	111.39	108.50	105.91	103.59	101.36
20.00	DISCHG	99.13	97.06	95.25	93.66	91.94	89.86	87.84	86.30	85.31	84.34
22.00	DISCHG	83.10	81.74	80.59	79.68	78.63	77.15	75.60	74.43	73.68	72.86
24.00	DISCHG	71.59	69.27	65.00	59.16	52.66	46.03	39.55	32.83	26.02	19.68
26.00	DISCHG	14.23	9.87	6.62	4.31	2.73	1.69	1.03	.62	.36	.20
28.00	DISCHG	.11	.05	.02	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5836 CFS-HRS= 2979.43 ACRE-FT= 246.22

SUBROUTINE REACH CROSS SECTION 24
LENGTH= 5200.00 INPUT COEFFICIENT= .4800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.569 AVERAGE ROUTING COEFF= .4800 NUMBER OF ROUTINGS= 2.21

SUBROUTINE RUNOFF CROSS SECTION 24
AREA= .79 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .64

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.34	91.817	(RUNOFF)
19.36	7.509	(RUNOFF)
21.66	6.500	(RUNOFF)
23.66	5.654	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3807 CFS-HRS= 194.09 ACRE-FT= 16.04

115

SUBROUTINE ADDHYD CROSS SECTION 24
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.20	744.736	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5652 CFS-HRS= 3173.43 ACRE-FT= 262.25

SUBROUTINE REACH CROSS SECTION 28
LENGTH= 5000.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 1.84

SUBROUTINE RUNOFF CROSS SECTION 28
AREA= .38 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .40

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.18	58.597	(RUNOFF)
16.93	4.754	(RUNOFF)
19.37	3.617	(RUNOFF)
21.55	3.204	(RUNOFF)
23.55	2.796	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3811 CFS-HRS= 93.45 ACRE-FT= 7.72

SUBROUTINE ADDHYD CROSS SECTION 28
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	64.626	(NULL)
14.86	719.306	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5575 CFS-HRS= 3266.83 ACRE-FT= 269.97

SUBROUTINE REACH CROSS SECTION 128
LENGTH= 11600.00 INPUT COEFFICIENT= .7100 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 4.162 AVERAGE ROUTING COEFF= .7100 NUMBER OF ROUTINGS= 2.75

SUBROUTINE RUNOFF CROSS SECTION 18
AREA= .14 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .14

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.99	36.108	(RUNOFF)
12.91	5.376	(RUNOFF)
13.91	3.242	(RUNOFF)
14.91	2.580	(RUNOFF)
15.91	1.988	(RUNOFF)
16.91	1.867	(RUNOFF)

17.90	1.565	(RUNOFF)
19.31	1.415	(RUNOFF)
20.31	1.256	(RUNOFF)
21.34	1.267	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4054 CFS-HRS= 36.63 ACRE-FT= 3.03

116

SUBROUTINE REACH CROSS SECTION 17
LENGTH= 2500.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .71

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .11 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .16

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	24.337	(RUNOFF)
13.90	2.398	(RUNOFF)
14.91	1.913	(RUNOFF)
15.90	1.479	(RUNOFF)
16.91	1.390	(RUNOFF)
19.31	1.055	(RUNOFF)
20.31	.938	(RUNOFF)
21.36	.945	(RUNOFF)
22.31	.925	(RUNOFF)
23.36	.828	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3727 CFS-HRS= 26.46 ACRE-FT= 2.19

SUBROUTINE ADDHYD CROSS SECTION 17
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	43.698	(NULL)
16.92	3.236	(NULL)
19.32	2.457	(NULL)
20.30	2.186	(NULL)
21.46	2.162	(NULL)
23.45	1.887	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .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	.00	.00	.00	.00	.17	13.83
12.00	DISCHG	41.96	35.68	21.90	16.11	11.58	9.73	8.18	7.25	6.68	5.97
14.00	DISCHG	5.66	5.25	4.98	4.80	4.56	4.47	4.20	4.02	3.85	3.59
16.00	DISCHG	3.48	3.32	3.22	3.21	3.21	3.22	3.10	3.00	2.91	2.78
18.00	DISCHG	2.72	2.57	2.46	2.43	2.43	2.44	2.44	2.45	2.39	2.25
20.00	DISCHG	2.19	2.18	2.18	2.11	1.97	1.91	2.04	2.16	2.12	1.99
22.00	DISCHG	1.93	1.91	1.91	1.84	1.70	1.63	1.76	1.88	1.85	1.71
24.00	DISCHG	1.64	.85	.25	.07	.02	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3973 CFS-HRS= 64.11 ACRE-FT= 5.30

117

SUBROUTINE REACH CROSS SECTION 25
LENGTH= 2300.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.633 AVERAGE ROUTING COEFF= .4900 NUMBER OF ROUTINGS= .96

SUBROUTINE RUNOFF CROSS SECTION 25
AREA= .21 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= .39

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.18	32.181	(RUNOFF)
16.93	2.627	(RUNOFF)
19.37	1.999	(RUNOFF)
21.54	1.772	(RUNOFF)
23.54	1.549	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3809 CFS-HRS= 51.62 ACRE-FT= 4.27

SUBROUTINE ADDHYD CROSS SECTION 25
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	58.058	(NULL)
19.34	4.447	(NULL)
21.60	3.851	(NULL)
23.60	3.353	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3913 CFS-HRS= 116.17 ACRE-FT= 9.60

SUBROUTINE REACH CROSS SECTION 29
LENGTH= 4100.00 INPUT COEFFICIENT= .5500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.078 AVERAGE ROUTING COEFF= .5500 NUMBER OF ROUTINGS= 1.51

SUBROUTINE RUNOFF CROSS SECTION 29
AREA= .70 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .40

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.17	120.495	(RUNOFF)
16.93	9.238	(RUNOFF)
19.37	7.007	(RUNOFF)
21.55	6.195	(RUNOFF)
23.55	5.400	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4139 CFS-HRS= 186.98 ACRE-FT= 15.45

SUBROUTINE ADDHYD CROSS SECTION 29
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

```
   12.21                          128.258                        (NULL)
   21.54                            9.905                        (NULL)
   23.53                            8.615                        (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .4047        CFS-HRS=      302.94        ACRE-FT=      25.04


SUBROUTINE REACH     CROSS SECTION  32
LENGTH=  14000.00     INPUT COEFFICIENT=   .5500     INPUT ROUTINGS=   .00

AVERAGE WATER VELOCITY=   2.078       AVERAGE ROUTING COEFF=  .5500       NUMBER OF ROUTINGS=  5.15


SUBROUTINE RUNOFF    CROSS SECTION  32
AREA=   1.98     INPUT RUNOFF CURVE=  77.0     TIME OF CONCENTRATION=  1.85

PEAK TIMES                   PEAK DISCHARGES                PEAK ELEVATIONS
   13.20                          145.214                       (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .4477        CFS-HRS=      572.07        ACRE-FT=      47.28


SUBROUTINE ADDHYD    CROSS SECTION  32
INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

PEAK TIMES                   PEAK DISCHARGES                PEAK ELEVATIONS
   13.70                          185.636                        (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .4316        CFS-HRS=      874.57        ACRE-FT=      72.27


SUBROUTINE SAVMOV    CROSS SECTION  32
INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 5


SUBROUTINE SAVMOV    CROSS SECTION 128
INPUT HYDROGRAPH= 4     OUTPUT HYDROGRAPH= 6


SUBROUTINE ADDHYD    CROSS SECTION 128
INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

PEAK TIMES                   PEAK DISCHARGES                PEAK ELEVATIONS
   15.54                          795.694                        (NULL)

  TIME                          HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=  12.22
   .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      2.01      7.74
 12.00    DISCHG      20.70     44.63     78.67    127.49    169.64    203.36    231.91    267.42    306.38    351.26
 14.00    DISCHG     405.91    470.80    540.42    609.25    673.29    727.32    767.53    790.81    794.95    780.53
 16.00    DISCHG     749.69    706.13    654.43    598.97    543.49    490.99    443.06    400.68    363.99    332.62
 18.00    DISCHG     306.08    283.75    264.90    248.91    235.26    223.50    213.39    204.60    196.91    190.11
 20.00    DISCHG     184.02    178.46    173.29    168.46    163.92    159.63    155.54    151.68    148.07    144.84
```

22.00	DISCHG	141.87	139.07	136.36	133.80	131.37	129.00	126.67	124.37	122.24	120.29
24.00	DISCHG	118.44	116.45	114.28	111.61	108.51	104.75	100.82	96.71	92.48	88.07
26.00	DISCHG	83.45	78.77	73.72	68.34	62.63	56.60	50.36	44.02	37.72	31.66
28.00	DISCHG	25.99	20.86	16.38	12.59	9.47	6.99	5.06	3.59	2.51	1.72
30.00	DISCHG	1.16	.77	.51	.33	.21	.13	.08	.05	.02	.00

119

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5251 CFS-HRS= 4141.16 ACRE-FT= 342.23

SUBROUTINE REACH CROSS SECTION 35
LENGTH= 12000.00 INPUT COEFFICIENT= .4500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.391 AVERAGE ROUTING COEFF= .4500 NUMBER OF ROUTINGS= 5.39

SUBROUTINE RUNOFF CROSS SECTION 35
AREA= 1.83 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.10

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.48	39.965	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3802 CFS-HRS= 449.07 ACRE-FT= 37.11

SUBROUTINE ADDHYD CROSS SECTION 35
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
17.87	722.445	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5062 CFS-HRS= 4589.91 ACRE-FT= 379.31

SUBROUTINE SAVMOV CROSS SECTION 35
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE REACH CROSS SECTION 124
LENGTH= 4000.00 INPUT COEFFICIENT= .6000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.550 AVERAGE ROUTING COEFF= .6000 NUMBER OF ROUTINGS= 1.31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.93	280.924	3.10

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2240 CFS-HRS= 801.96 ACRE-FT= 66.27

SUBROUTINE ADDHYD CROSS SECTION 124
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.06	397.938	3.49
17.84	753.352	3.94

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 19.60

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

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	1.19	4.35
12.00	DISCHG	13.14	25.97	47.11	75.49	117.68	180.90	255.40	321.68	366.00	389.59
14.00	DISCHG	397.51	395.35	382.38	366.90	355.14	351.23	355.52	367.83	387.57	413.96
16.00	DISCHG	446.77	485.51	529.18	575.16	620.78	663.00	699.25	727.28	745.53	753.12
18.00	DISCHG	749.97	736.74	714.66	685.40	650.88	613.03	573.64	534.23	496.03	459.86
20.00	DISCHG	426.36	395.76	368.21	343.61	321.83	302.63	285.79	271.05	258.14	246.86
22.00	DISCHG	236.91	228.11	220.24	213.13	206.65	200.71	195.20	190.10	185.38	180.98
24.00	DISCHG	176.86	172.89	168.95	164.89	160.76	156.37	151.94	147.43	142.93	138.60
26.00	DISCHG	134.36	130.25	126.24	122.22	118.24	114.15	110.05	105.84	101.53	97.10
28.00	DISCHG	92.51	87.75	82.80	77.65	72.30	66.77	61.10	55.35	49.60	43.93
30.00	DISCHG	38.44	33.22	28.34	23.87	19.85	16.30	13.21	10.58	8.37	6.55
32.00	DISCHG	5.06	3.87	2.93	2.19	1.62	1.19	.86	.62	.44	.31
34.00	DISCHG	.22	.15	.10	.07	.05	.03	.02	.01	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4263 CFS-HRS= 5391.87 ACRE-FT= 445.58

120

SUBROUTINE DIVERT CROSS SECTION 129
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPHS= 4,2

SUBROUTINE REACH CROSS SECTION 129
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
18.51	143.089	4.48

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1525 CFS-HRS= 385.68 ACRE-FT= 31.87

SUBROUTINE RUNOFF CROSS SECTION 40
AREA= .67 INPUT RUNOFF CURVE= 69.0 TIME OF CONCENTRATION= .63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	32.776	(RUNOFF)
19.49	4.494	(RUNOFF)
21.66	3.946	(RUNOFF)
23.66	3.463	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2168 CFS-HRS= 93.76 ACRE-FT= 7.75

SUBROUTINE ADDHYD CROSS SECTION 129
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.43	32.776	4.11
18.50	147.756	4.49
23.66	3.463	4.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1619 CFS-HRS= 479.44 ACRE-FT= 39.62

SUBROUTINE SAVMOV CROSS SECTION 129
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 126
INPUT HYDROGRAPH= 3 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD CROSS SECTION 131
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.41	1151.188	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 18.17

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	.00	.00	.02	.08	.21	.45	1.41
12.00	DISCHG	9.83	29.73	43.21	65.83	130.38	256.85	437.33	637.36	821.85	969.86
14.00	DISCHG	1073.32	1132.34	1151.07	1136.50	1097.14	1042.02	979.71	917.32	859.77	809.22
16.00	DISCHG	766.43	731.89	704.40	681.53	661.33	642.63	624.82	607.58	590.81	574.30
18.00	DISCHG	557.71	540.71	522.84	503.73	483.14	460.93	437.19	412.22	386.50	360.57
20.00	DISCHG	335.10	310.77	288.25	269.26	254.86	244.06	235.83	229.30	223.68	218.36
22.00	DISCHG	213.25	208.50	204.26	200.52	197.14	194.02	191.26	188.78	186.27	183.42
24.00	DISCHG	180.25	176.75	172.78	168.99	165.54	161.89	157.24	150.80	142.12	131.26
26.00	DISCHG	118.64	104.99	91.19	78.04	66.15	55.83	47.11	39.84	33.79	28.71
28.00	DISCHG	24.36	20.57	17.22	14.24	11.62	9.32	7.36	5.71	4.36	3.27
30.00	DISCHG	2.41	1.76	1.26	.89	.62	.43	.29	.19	.12	.08
32.00	DISCHG	.04	.02	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5428 CFS-HRS= 6365.91 ACRE-FT= 526.08

SUBROUTINE REACH CROSS SECTION 132
LENGTH= 2100.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .60

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.60	1140.712	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5428 CFS-HRS= 6365.78 ACRE-FT= 526.07

SUBROUTINE RUNOFF CROSS SECTION 19
AREA= .20 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	42.279	(RUNOFF)
16.91	2.656	(RUNOFF)
19.32	2.010	(RUNOFF)
20.32	1.784	(RUNOFF)

21.44	1.792	(RUNOFF)
22.31	1.566	(RUNOFF)
23.44	1.566	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4087 CFS-HRS= 52.75 ACRE-FT= 4.36

122

SUBROUTINE REACH CROSS SECTION 20
LENGTH= 3700.00 INPUT COEFFICIENT= .5600 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 2.164 AVERAGE ROUTING COEFF= .5600 NUMBER OF ROUTINGS= 1.33

SUBROUTINE RUNOFF CROSS SECTION 20
AREA= .68 INPUT RUNOFF CURVE= 76.0 TIME OF CONCENTRATION= .41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.18	115.029	(RUNOFF)
16.93	8.972	(RUNOFF)
19.37	6.806	(RUNOFF)
21.55	6.008	(RUNOFF)
23.55	5.239	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4134 CFS-HRS= 181.43 ACRE-FT= 14.99

SUBROUTINE ADDHYD CROSS SECTION 20
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	133.731	(NULL)
19.37	8.804	(NULL)
21.58	7.692	(NULL)
23.57	6.696	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= .88

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.44	21.27
12.00	DISCHG	91.60	133.61	100.08	76.08	56.07	42.85	35.45	29.63	26.74	23.74
14.00	DISCHG	21.65	20.25	18.81	18.05	17.13	16.47	15.84	14.98	14.47	13.60
16.00	DISCHG	12.91	12.43	11.92	11.68	11.61	11.60	11.43	11.04	10.79	10.34
18.00	DISCHG	9.98	9.63	9.14	8.90	8.80	8.78	8.78	8.80	8.77	8.40
20.00	DISCHG	8.06	7.92	7.86	7.79	7.40	7.05	7.11	7.51	7.69	7.40
22.00	DISCHG	7.09	6.96	6.90	6.83	6.42	6.06	6.12	6.52	6.69	6.40
24.00	DISCHG	6.05	4.77	2.36	1.03	.43	.18	.07	.03	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4132 CFS-HRS= 234.64 ACRE-FT= 19.39

SUBROUTINE REACH CROSS SECTION 33
LENGTH= 22800.00 INPUT COEFFICIENT= .4600 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.448 AVERAGE ROUTING COEFF= .4600 NUMBER OF ROUTINGS= 10.06

```
SUBROUTINE RUNOFF     CROSS SECTION  33
           AREA=    2.61      INPUT RUNOFF CURVE=  77.0      TIME OF CONCENTRATION=  3.96

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              14.93                           114.043                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .4473        CFS-HRS=       753.44        ACRE-FT=       62.26

SUBROUTINE ADDHYD     CROSS SECTION  33
           INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              15.86                           134.750                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .4385        CFS-HRS=       987.68        ACRE-FT=       81.62

SUBROUTINE SAVMOV     CROSS SECTION  33
           INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 4

SUBROUTINE RUNOFF     CROSS SECTION  34
           AREA=    3.23      INPUT RUNOFF CURVE=  77.0      TIME OF CONCENTRATION=  2.50

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              13.71                           191.771                      (RUNOFF)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .4472        CFS-HRS=       932.15        ACRE-FT=       77.03

SUBROUTINE REACH      CROSS SECTION 133
           LENGTH=    5000.00      INPUT COEFFICIENT=    .4600      INPUT ROUTINGS=    .00

           AVERAGE WATER VELOCITY=    1.448        AVERAGE ROUTING COEFF=  .4600        NUMBER OF ROUTINGS=  2.21

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              14.66                           177.075                      (NULL)

           TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .4470        CFS-HRS=       931.86        ACRE-FT=       77.01

SUBROUTINE ADDHYD     CROSS SECTION 133
           INPUT HYDROGRAPHS= 5,4      OUTPUT HYDROGRAPH= 7

           PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
              14.88                           295.539                      (NULL)

   TIME                                HYDROGRAPH, TZERO=     .00        DELTA T=  .20        DRAINAGE AREA=    6.72
    .00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   2.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   4.00    DISCHG          .00        .00        .00        .00        .00        .00        .00        .00        .00        .00
   6.00    DISCHG          .00        .00        .00        .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        .01        .02       1.01       4.33
```

12.00	DISCHG	7.87	12.84	24.39	40.19	60.22	87.05	120.44	156.36	192.19	222.21
14.00	DISCHG	248.66	270.79	283.98	291.40	295.18	294.80	289.98	284.35	278.42	269.65
16.00	DISCHG	260.28	250.29	240.14	229.77	218.81	207.56	196.94	186.31	175.86	166.21
18.00	DISCHG	157.16	148.62	140.81	133.86	127.41	121.40	116.15	111.27	106.67	102.56
20.00	DISCHG	98.85	95.36	92.11	89.24	86.54	84.00	81.72	79.58	77.53	75.62
22.00	DISCHG	73.88	72.20	70.59	69.20	67.87	66.59	65.40	64.26	63.14	62.02
24.00	DISCHG	60.86	59.72	58.59	57.28	55.90	54.40	52.63	50.45	48.02	45.33
26.00	DISCHG	42.28	39.08	35.82	32.61	29.49	26.46	23.62	21.07	18.65	16.35
28.00	DISCHG	14.39	12.58	10.87	9.35	8.06	6.87	5.79	4.93	4.17	3.49
30.00	DISCHG	2.93	2.48	2.08	1.73	1.47	1.24	1.04	.89	.76	.64
32.00	DISCHG	.54	.47	.40	.33	.28	.24	.20	.18	.16	.13
34.00	DISCHG	.11	.10	.09	.07	.06	.05	.04	.03	.03	.02
36.00	DISCHG	.02	.01	.01	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4426 CFS-HRS= 1919.54 ACRE-FT= 158.63

124

SUBROUTINE REACH CROSS SECTION 37
LENGTH= 17700.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.633 AVERAGE ROUTING COEFF= .4900 NUMBER OF ROUTINGS= 7.38

SUBROUTINE RUNOFF CROSS SECTION 37
AREA= 2.34 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.60

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.82	110.878	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3805 CFS-HRS= 574.68 ACRE-FT= 47.49

SUBROUTINE ADDHYD CROSS SECTION 37
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

SUBROUTINE RUNOFF CROSS SECTION 36
AREA= 2.73 INPUT RUNOFF CURVE= 77.0 TIME OF CONCENTRATION= .96

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.55	312.063	(RUNOFF)
21.79	24.291	(RUNOFF)
23.78	21.042	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4468 CFS-HRS= 787.12 ACRE-FT= 65.05

SUBROUTINE RESVOR STRUCTURE 36
SURFACE ELEVATION= .00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.33	78.436	2.94

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4467 CFS-HRS= 787.09 ACRE-FT= 65.04

SUBROUTINE REACH CROSS SECTION 134

LENGTH= 15000.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

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

SUBROUTINE ADDHYD CROSS SECTION 134
INPUT HYDROGRAPHS= 5,7 OUTPUT HYDROGRAPH= 6

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.85	111.858	(NULL)
18.02	303.447	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3278 CFS-HRS= 2494.29 ACRE-FT= 206.13

SUBROUTINE REACH CROSS SECTION 130
LENGTH= 5500.00 INPUT COEFFICIENT= .4900 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 1.633 AVERAGE ROUTING COEFF= .4900 NUMBER OF ROUTINGS= 2.29

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.09	371.664	3.93
18.75	588.985	4.47

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4948 CFS-HRS= 5006.19 ACRE-FT= 413.71

SUBROUTINE ADDHYD CROSS SECTION 134
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
18.55	882.276	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 27.47

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.02	.30	4.93
12.00	DISCHG	9.74	21.27	35.57	55.72	81.84	110.66	142.52	183.02	228.19	283.20
14.00	DISCHG	335.94	384.78	422.64	449.35	466.79	476.85	482.63	488.98	498.48	514.36
16.00	DISCHG	537.01	566.25	599.47	634.96	671.53	708.18	744.13	777.97	808.91	835.43
18.00	DISCHG	856.76	871.95	880.46	882.02	876.74	865.07	847.66	825.50	799.53	770.94
20.00	DISCHG	740.69	709.80	679.06	648.91	618.32	586.95	555.61	525.20	496.49	469.89
22.00	DISCHG	445.66	423.74	404.05	386.40	370.58	356.35	343.51	331.89	321.29	311.57
24.00	DISCHG	302.63	294.24	286.39	278.88	271.56	264.46	257.24	250.12	242.98	235.85
26.00	DISCHG	228.86	221.96	215.28	208.82	202.54	196.53	190.54	184.67	178.69	172.64
28.00	DISCHG	166.39	159.93	153.23	146.27	139.05	131.56	123.85	115.92	107.85	99.66
30.00	DISCHG	91.43	83.23	75.14	67.26	59.67	52.45	45.68	39.42	33.70	28.56
32.00	DISCHG	23.99	19.98	16.52	13.56	11.05	8.96	7.23	5.80	4.65	3.71
34.00	DISCHG	2.96	2.36	1.89	1.51	1.21	.98	.79	.64	.52	.43
36.00	DISCHG	.36	.29	.25	.20	.17	.14	.12	.10	.09	.07
38.00	DISCHG	.06	.05	.04	.03	.03	.02	.02	.01	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4231 CFS-HRS= 7500.48 ACRE-FT= 619.84

SUBROUTINE SAVMOV CROSS SECTION 134
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE SAVMOV CROSS SECTION 132
INPUT HYDROGRAPH= 3 OUTPUT HYDROGRAPH= 6

126

SUBROUTINE ADDHYD CROSS SECTION 135
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.71	1594.965	(NULL)
18.05	1429.311	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 45.64

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.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	.04	.13	.56	5.64
12.00	DISCHG	13.62	36.00	66.21	103.22	163.76	269.82	434.16	650.70	885.79	1115.10
14.00	DISCHG	1307.74	1454.19	1547.00	1590.01	1591.94	1562.97	1514.92	1460.79	1409.83	1369.71
16.00	DISCHG	1343.03	1330.61	1329.92	1337.95	1351.48	1367.77	1384.93	1400.92	1414.64	1424.37
18.00	DISCHG	1429.11	1427.57	1418.88	1402.33	1377.70	1345.20	1305.41	1259.43	1208.50	1154.30
20.00	DISCHG	1098.33	1042.26	987.57	935.69	886.94	841.47	799.40	760.74	725.41	693.06
22.00	DISCHG	663.48	636.52	612.17	590.34	570.79	553.19	537.29	522.93	509.79	497.45
24.00	DISCHG	485.60	474.00	462.56	451.23	440.21	429.55	418.38	406.21	392.24	376.15
26.00	DISCHG	358.17	338.69	318.54	298.57	279.44	261.83	245.73	231.29	218.14	206.09
28.00	DISCHG	194.78	183.99	173.52	163.23	153.07	142.99	133.02	123.17	113.47	103.95
30.00	DISCHG	94.65	85.61	76.88	68.51	60.55	53.07	46.11	39.71	33.89	28.68
32.00	DISCHG	24.06	20.02	16.54	13.56	11.05	8.96	7.23	5.80	4.65	3.71
34.00	DISCHG	2.96	2.36	1.89	1.51	1.21	.98	.79	.64	.52	.43
36.00	DISCHG	.36	.29	.25	.20	.17	.14	.12	.10	.09	.07
38.00	DISCHG	.06	.05	.04	.03	.03	.02	.02	.01	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4708 CFS-HRS= 13866.26 ACRE-FT= 1145.91

SUBROUTINE REACH CROSS SECTION 136
LENGTH= 3100.00 INPUT COEFFICIENT= .6500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 3.157 AVERAGE ROUTING COEFF= .6500 NUMBER OF ROUTINGS= .89

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.01	1580.028	(NULL)
18.31	1427.075	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4707 CFS-HRS= 13865.65 ACRE-FT= 1145.86

SUBROUTINE RUNOFF CROSS SECTION 38
AREA= 1.23 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.66

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS

13.92 56.743 (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3802 CFS-HRS= 301.80 ACRE-FT= 24.94

SUBROUTINE ADDHYD CROSS SECTION 137
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
14.99	1623.492	(NULL)
18.29	1444.429	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .20 DRAINAGE AREA= 46.87

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	.00	.00	.00	.00	.01	.03	1.20	2.94
12.00	DISCHG	10.15	22.10	46.12	80.71	124.00	187.95	290.39	440.93	640.37	863.98
14.00	DISCHG	1088.18	1286.53	1443.04	1550.54	1608.36	1623.38	1605.20	1564.42	1513.21	1461.63
16.00	DISCHG	1417.47	1385.18	1366.09	1359.28	1362.00	1371.48	1384.91	1400.10	1415.10	1428.33
18.00	DISCHG	1438.37	1443.83	1443.59	1436.59	1422.10	1399.76	1369.62	1332.16	1288.22	1239.04
20.00	DISCHG	1186.06	1130.82	1074.92	1019.85	967.00	917.00	870.19	826.71	786.62	749.86
22.00	DISCHG	716.19	685.40	657.31	631.86	608.94	588.36	569.83	553.11	537.99	524.16
24.00	DISCHG	511.26	498.96	486.92	475.10	463.24	451.63	440.16	428.33	415.67	401.47
26.00	DISCHG	385.38	367.53	348.12	327.96	307.72	288.15	269.87	253.04	237.84	224.00
28.00	DISCHG	211.37	199.60	188.47	177.75	167.29	157.01	146.84	136.80	126.87	117.10
30.00	DISCHG	107.50	98.12	88.98	80.14	71.64	63.54	55.90	48.76	42.16	36.14
32.00	DISCHG	30.72	25.88	21.63	17.94	14.77	12.08	9.82	7.95	6.40	5.14
34.00	DISCHG	4.11	3.28	2.62	2.09	1.67	1.34	1.08	.87	.71	.58
36.00	DISCHG	.47	.39	.32	.27	.22	.18	.15	.13	.11	.09
38.00	DISCHG	.08	.07	.06	.05	.04	.03	.02	.02	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4684 CFS-HRS= 14167.45 ACRE-FT= 1170.80

ENDCMP

Note [illegible] #16 & 31A [illegible] Not Incl/Incl
And D.A. @ VS-152 is [illegible] from Total w/o Area

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
1	1	42	.21	2	2	.20	.00	3.30	24.00	120.05	12.17	.00	1.28	571.66
1	1	41	.15	2	2	.20	.00	3.30	24.00	103.12	12.02	.00	1.28	687.48
1	1	41	.36	2	2	.20	.00	3.30	24.00	188.18	12.13	.00	1.28	522.71
1	1	45	.24	2	2	.20	.00	3.30	24.00	178.67	12.10	.00	1.55	744.46
1	1	101	.60	2	2	.20	.00	3.30	24.00	255.61	12.25	.00	1.39	426.02
1	1	44	.29	2	2	.20	.00	3.30	24.00	187.40	12.21	.00	1.55	646.22
1	1	43	.46	2	2	.20	.00	3.30	24.00	301.62	12.14	.00	1.41	655.70
1	1	103	.75	2	2	.20	.00	3.30	24.00	458.21	12.19	.00	1.47	610.95
1	1	46	.77	2	2	.20	.00	3.30	24.00	469.04	12.32	.00	1.69	609.14
1	1	104	1.52	2	2	.20	.00	3.30	24.00	667.28	12.58	.00	1.58	439.00
1	1	102	2.12	2	2	.20	.00	3.30	24.00	902.03	12.54	5.39	1.52	425.49
1	1	2	.38	2	2	.20	.00	3.30	24.00	218.04	12.24	.00	1.41	573.79
1	1	1	.29	2	2	.20	.00	3.30	24.00	215.17	12.15	.00	1.62	741.98
1	1	105	.67	2	2	.20	.00	3.30	24.00	419.86	12.20	.00	1.50	626.66
1	1	106	.67	2	2	.20	.00	3.30	24.00	379.77	12.48	1.18	1.50	566.83
1	1	3	.51	2	2	.20	.00	3.30	24.00	334.69	12.09	.00	1.35	656.26
1	1	4	.33	2	2	.20	.00	3.30	24.00	206.70	12.14	.00	1.35	626.37
1	1	5	1.25	2	2	.20	.00	3.30	24.00	676.88	12.27	.00	1.41	541.51
1	1	107	2.09	2	2	.20	.00	3.30	24.00	1174.69	12.19	.00	1.39	562.05
1	1	106	2.09	2	2	.20	.00	3.30	24.00	1029.67	12.55	2.17	1.38	492.66
1	1	10	1.04	2	2	.20	.00	3.30	24.00	1041.38	12.04	.00	1.93	1001.33
1	1	106	3.13	2	2	.20	.00	3.30	24.00	1463.07	12.25	2.68	1.56	467.44
1	1	106	3.80	2	2	.20	.00	3.30	24.00	1755.23	12.37	3.00	1.55	461.90
1	1	104	2.28	2	2	.20	.00	3.30	24.00	1039.57	12.50	.00	1.55	455.95
1	1	102	4.40	2	2	.20	.00	3.30	24.00	1940.61	12.52	6.97	1.54	441.05
1	1	152	1.76 D.A. not incl	2	2	.20	.00	3.30	24.00	720.25	12.32	5.96	.68	409.23
1	1	6	2.44	2	2	.20	.00	3.30	24.00	908.99	12.57	.00	1.35	372.54
1	1	12	.65	2	2	.20	.00	3.30	24.00	450.14	12.08	.00	1.41	692.52
1	1	110	3.09	2	2	.20	.00	3.30	24.00	861.36	13.15	.00	1.36	278.76
1	1	22	2.20	2	2	.20	.00	3.30	24.00	991.14	12.43	.00	1.41	450.52
1	1	111	5.29	2	2	.20	.00	3.30	24.00	1010.37	12.44	.00	1.38	191.00
1	1	11	.15	2	2	.20	.00	3.30	24.00	120.71	12.02	.00	1.48	804.70
1	1	111	5.44	2	2	.20	.00	3.30	24.00	1015.46	12.45	.00	1.38	186.67
1	1	112	5.44	2	2	.20	.00	3.30	24.00	931.15	12.98	.00	1.38	171.17
1	1	214771	2.30	2	2	.20	.00	3.30	24.00	1069.34	12.48	.00	1.54	464.93
1	1	112	7.74	2	2	.20	.00	3.30	24.00	1776.82	12.75	.00	1.43	229.56
1	1	108	1.52	2	2	.20	.00	3.30	24.00	527.39	13.82	1.84	1.56	346.97
1	1	112	9.26	2	2	.20	.00	3.30	24.00	1895.59	12.84	.00	1.45	204.71
1	1	109	2.64	2	2	.20	.00	3.30	24.00	1191.70	12.89	.00	2.11	451.48
1	1	113	11.90	2	2	.20	.00	3.30	24.00	3084.55	12.86	.00	1.60	259.21
1	1	114	11.90	2	2	.20	.00	3.30	24.00	3046.52	12.92	.00	1.60	256.01
1	1	151	.00	2	2	.20	.00	3.30	24.00	.00	.00	.00	1.60	.00
1	1	151	1.76	2	2	.20	.00	3.30	24.00	720.25	12.32	.00	.68	409.23
1	1	23	.49	2	2	.20	.00	3.30	24.00	214.71	12.27	.00	1.16	438.19
1	1	27	.44	2	2	.20	.00	3.30	24.00	281.95	12.01	.00	1.16	640.80
1	1	115	.93	2	2	.20	.00	3.30	24.00	315.44	12.05	.00	1.16	339.18
1	1	116	.93	2	2	.20	.00	3.30	24.00	236.12	13.30	.00	1.16	253.90
1	1	26	.94	2	2	.20	.00	3.30	24.00	554.40	12.21	.00	1.41	589.79
1	1	116	1.87	2	2	.20	.00	3.30	24.00	567.85	12.24	.00	1.28	303.67
1	1	117	13.77	2	2	.20	.00	3.30	24.00	3445.87	12.89	.00	1.56	250.25
1	1	30	1.79	2	2	.20	.00	3.30	24.00	988.00	12.25	.00	1.41	551.96
1	1	118	15.56	2	2	.20	.00	3.30	24.00	3761.78	12.88	.00	1.54	241.76
1	1	150	.00	2	2	.20	.00	3.30	24.00	15.29	12.62	.00	1.54	.00

128

102-14

1	1	150	1.76	2	2	.20	.00	3.30	24.00	718.42	12.32	.00	.68	408.19
1	1	119	9.34	2	2	.20	.00	3.30	24.00	1968.13	13.08	7.36	1.94	210.81
1	1	48	1.06	2	2	.20	.00	3.30	24.00	142.34	12.81	.00	.65	134.29
1	1	121	10.40	2	2	.20	.00	3.30	24.00	2099.31	13.03	.00	1.81	201.93
1	1	122	10.40	2	2	.20	.00	3.30	24.00	2038.39	13.62	.00	1.81	196.07
1	1	39	.81	2	2	.20	.00	3.30	24.00	141.57	12.47	.00	.65	174.77
1	1	122	11.21	2	2	.20	.00	3.30	24.00	2087.52	13.59	.00	1.73	186.29
1	1	31 31B	1.70	2	2	.20	.00	3.30	24.00	297.15	13.72	.00	1.22	174.79
1	1	120	6.22	2	2	.20	.00	3.30	24.00	1695.02	13.34	7.29	.93	272.34
1	1	120	7.92	2	2	.20	.00	3.30	24.00	1983.36	13.37	7.58	.99	250.30
1	1	123	2.38	2	2	.20	.00	3.30	24.00	584.79	14.09	4.46	.89	246.00
1	1	125	13.58	2	2	.20	.00	3.30	24.00	2613.02	13.82	.00	1.58	192.37
1	1	126	13.58	2	2	.20	.00	3.30	24.00	2548.85	14.44	.00	1.58	187.65
1	1	9	1.30	2	2	.20	.00	3.30	24.00	525.97	12.43	.00	1.28	404.59
1	1	15	.85	2	2	.20	.00	3.30	24.00	729.18	12.03	.00	1.62	857.85
1	1	15	2.15	2	2	.20	.00	3.30	24.00	763.01	12.05	.00	1.42	354.89
1	1	127	2.15	2	2	.20	.00	3.30	24.00	540.30	13.56	.00	1.41	251.30
1	1	8	1.48	2	2	.20	.00	3.30	24.00	882.09	12.29	.00	1.61	596.01
1	1	14	1.38	2	2	.20	.00	3.30	24.00	624.66	12.48	.00	1.48	452.65
1	1	14	2.86	2	2	.20	.00	3.30	24.00	880.91	13.24	.00	1.55	308.01
1	1	153	5.01	2	2	.20	.00	3.30	24.00	1408.34	13.27	.00	1.49	281.11
1	1	7	1.60	2	2	.20	.00	3.30	24.00	781.95	12.44	.00	1.55	488.72
1	1	13	1.30	2	2	.20	.00	3.30	24.00	652.99	12.41	.00	1.55	502.30
1	1	13	2.90	2	2	.20	.00	3.30	24.00	801.11	13.37	.00	1.55	276.24
1	1	127	7.91	2	2	.20	.00	3.30	24.00	2207.86	13.32	.00	1.51	279.12
1	1	24	.79	2	2	.20	.00	3.30	24.00	351.73	12.26	.00	1.16	445.23
1	1	24	8.70	2	2	.20	.00	3.30	24.00	2083.04	14.11	.00	1.48	239.43
1	1	28	.38	2	2	.20	.00	3.30	24.00	207.70	12.12	.00	1.16	546.58
1	1	28	9.08	2	2	.20	.00	3.30	24.00	2012.72	14.76	.00	1.47	221.66
1	1	18	.14	2	2	.20	.00	3.30	24.00	113.37	11.96	.00	1.20	809.76
1	1	17	.11	2	2	.20	.00	3.30	24.00	81.74	11.97	.00	1.14	743.05
1	1	17	.25	2	2	.20	.00	3.30	24.00	154.69	12.02	.00	1.19	618.76
1	1	25	.21	2	2	.20	.00	3.30	24.00	114.15	12.11	.00	1.16	543.56
1	1	25	.46	2	2	.20	.00	3.30	24.00	211.81	12.21	.00	1.18	460.47
1	1	29	.70	2	2	.20	.00	3.30	24.00	405.18	12.11	.00	1.22	578.82
1	1	29	1.16	2	2	.20	.00	3.30	24.00	449.19	12.16	.00	1.21	387.23
1	1	32	1.98	2	2	.20	.00	3.30	24.00	491.38	13.06	.00	1.28	248.17
1	1	32	3.14	2	2	.20	.00	3.30	24.00	619.41	13.59	.00	1.25	197.26
1	1	128	12.22	2	2	.20	.00	3.30	24.00	2234.50	15.41	.00	1.41	182.86
1	1	35	1.83	2	2	.20	.00	3.30	24.00	362.75	13.34	.00	1.16	198.22
1	1	35	14.05	2	2	.20	.00	3.30	24.00	2040.99	17.67	.00	1.38	145.27
1	1	124	5.55	2	2	.20	.00	3.30	24.00	1261.01	13.80	4.58	1.04	227.34
1	1	124	19.60	2	2	.20	.00	3.30	24.00	2200.42	17.50	5.75	1.28	112.28
1	1	129	3.92	2	2	.20	.00	3.30	24.00	707.16	18.13	5.81	1.59	180.43
1	1	40	.67	2	2	.20	.00	3.30	24.00	200.23	12.28	.00	.84	298.85
1	1	129	4.59	2	2	.20	.00	3.30	24.00	721.34	18.12	5.84	1.48	157.18
1	1	131	18.17	2	2	.20	.00	3.30	24.00	3044.13	14.47	.00	1.55	167.51
1	1	132	18.17	2	2	.20	.00	3.30	24.00	3023.07	14.67	.00	1.55	166.35
1	1	19	.20	2	2	.20	.00	3.30	24.00	141.48	11.99	.00	1.21	707.41
1	1	20	.68	2	2	.20	.00	3.30	24.00	387.65	12.12	.00	1.22	570.07
1	1	20	.88	2	2	.20	.00	3.30	24.00	458.87	12.16	.00	1.22	521.45
1	1	33	2.61	2	2	.20	.00	3.30	24.00	362.51	14.73	.00	1.28	138.89
1	1	33	3.49	2	2	.20	.00	3.30	24.00	430.23	15.69	.00	1.27	123.28
1	1	34	3.23	2	2	.20	.00	3.30	24.00	630.80	13.52	.00	1.28	195.29
1	1	133	3.23	2	2	.20	.00	3.30	24.00	579.74	14.50	.00	1.28	179.49
1	1	133	6.72	2	2	.20	.00	3.30	24.00	956.57	14.66	.00	1.27	142.35
1	1	37	2.34	2	2	.20	.00	3.30	24.00	396.85	13.72	.00	1.16	169.59

100-114

1	1	36	2.73	2	2	.20	.00	3.30	24.00	1065.55	12.46	.00	1.28	390.31
1	1	-36	2.73	2	2	.20	.00	3.30	24.00	131.98	15.32	5.60	1.28	48.35
1	1	134	11.79	2	2	.20	.00	3.30	24.00	951.89	17.79	.00	.96	80.74
1	1	130	15.68	2	2	.20	.00	3.30	24.00	1447.01	18.37	5.81	1.21	92.30
1	1	134	27.47	2	2	.20	.00	3.30	24.00	2377.37	18.15	.00	1.10	86.55
1	1	135	45.64	2	2	.20	.00	3.30	24.00	4438.75	14.73	.00	1.28	97.26
1	1	136	45.64	2	2	.20	.00	3.30	24.00	4409.68	15.04	.00	1.28	96.62
1	1	38	1.23	2	2	.20	.00	3.30	24.00	203.42	13.71	.00	1.16	165.38
1	1	137	46.87	2	2	.20	.00	3.30	24.00	4542.17	15.00	.00	1.28	96.91
1	2	42	.21	2	2	.20	.00	2.50	24.00	65.86	12.20	.00	.74	313.62
1	2	41	.15	2	2	.20	.00	2.50	24.00	56.64	12.04	.00	.74	377.58
1	2	41	.36	2	2	.20	.00	2.50	24.00	102.49	12.16	.00	.74	284.70
1	2	45	.24	2	2	.20	.00	2.50	24.00	105.75	12.12	.00	.94	440.61
1	2	101	.60	2	2	.20	.00	2.50	24.00	143.06	12.26	.00	.82	238.44
1	2	44	.29	2	2	.20	.00	2.50	24.00	110.65	12.23	.00	.94	381.55
1	2	43	.46	2	2	.20	.00	2.50	24.00	173.23	12.16	.00	.84	376.59
1	2	103	.75	2	2	.20	.00	2.50	24.00	265.03	12.21	.00	.88	353.37
1	2	46	.77	2	2	.20	.00	2.50	24.00	286.31	12.34	.00	1.05	371.83
1	2	104	1.52	2	2	.20	.00	2.50	24.00	393.19	12.60	.00	.97	258.68
1	2	102	2.12	2	2	.20	.00	2.50	24.00	523.79	12.56	4.16	.92	247.07
1	2	2	.38	2	2	.20	.00	2.50	24.00	123.49	12.25	.00	.84	324.96
1	2	1	.29	2	2	.20	.00	2.50	24.00	130.13	12.17	.00	1.00	448.71
1	2	105	.67	2	2	.20	.00	2.50	24.00	245.27	12.22	.00	.91	366.07
1	2	106	.67	2	2	.20	.00	2.50	24.00	220.31	12.50	.84	.91	328.82
1	2	3	.51	2	2	.20	.00	2.50	24.00	186.02	12.12	.00	.79	364.75
1	2	4	.33	2	2	.20	.00	2.50	24.00	116.39	12.16	.00	.79	352.70
1	2	5	1.25	2	2	.20	.00	2.50	24.00	382.32	12.29	.00	.84	305.86
1	2	107	2.09	2	2	.20	.00	2.50	24.00	663.07	12.21	.00	.82	317.26
1	2	106	2.09	2	2	.20	.00	2.50	24.00	578.88	12.58	1.54	.82	276.97
1	2	10	1.04	2	2	.20	.00	2.50	24.00	668.49	12.05	.00	1.25	642.78
1	2	106	3.13	2	2	.20	.00	2.50	24.00	863.45	12.23	1.96	.96	275.86
1	2	106	3.80	2	2	.20	.00	2.50	24.00	1014.25	12.37	2.15	.95	266.91
1	2	104	2.28	2	2	.20	.00	2.50	24.00	603.22	12.51	.00	.95	264.57
1	2	102	4.40	2	2	.20	.00	2.50	24.00	1126.03	12.53	5.79	.94	255.92
1	2	152	1.76	2	2	.20	.00	2.50	24.00	312.98	12.33	5.23	.24	177.83
1	2	6	2.44	2	2	.20	.00	2.50	24.00	501.53	12.61	.00	.79	205.54
1	2	12	.65	2	2	.20	.00	2.50	24.00	254.67	12.11	.00	.84	391.80
1	2	110	3.09	2	2	.20	.00	2.50	24.00	479.79	13.19	.00	.80	155.27
1	2	22	2.20	2	2	.20	.00	2.50	24.00	559.65	12.45	.00	.84	254.38
1	2	111	5.29	2	2	.20	.00	2.50	24.00	564.10	12.46	.00	.81	106.63
1	2	11	.15	2	2	.20	.00	2.50	24.00	70.46	12.03	.00	.89	469.76
1	2	111	5.44	2	2	.20	.00	2.50	24.00	566.01	12.47	.00	.82	104.05
1	2	112	5.44	2	2	.20	.00	2.50	24.00	519.21	13.01	.00	.82	95.44
1	2	21	2.30	2	2	.20	.00	2.50	24.00	620.12	12.51	.00	.94	269.62
1	2	112	7.74	2	2	.20	.00	2.50	24.00	1016.62	12.77	.00	.85	131.35
1	2	108	1.52	2	2	.20	.00	2.50	24.00	310.03	13.84	1.33	.95	203.97
1	2	112	9.26	2	2	.20	.00	2.50	24.00	1085.74	12.87	.00	.87	117.25
1	2	109	2.64	2	2	.20	.00	2.50	24.00	795.77	12.91	.00	1.40	301.43
1	2	113	11.90	2	2	.20	.00	2.50	24.00	1882.63	12.89	.00	.99	158.20
1	2	114	11.90	2	2	.20	.00	2.50	24.00	1861.61	12.95	.00	.99	156.44
1	2	151	.00	2	2	.20	.00	2.50	24.00	.00	.00	.00	.99	.00
1	2	151	1.76	2	2	.20	.00	2.50	24.00	312.98	12.33	.00	.24	177.83
1	2	23	.49	2	2	.20	.00	2.50	24.00	110.31	12.30	.00	.65	225.12
1	2	27	.44	2	2	.20	.00	2.50	24.00	148.47	12.03	.00	.65	337.44
1	2	115	.93	2	2	.20	.00	2.50	24.00	160.91	12.07	.00	.65	173.02
1	2	116	.93	2	2	.20	.00	2.50	24.00	121.50	13.37	.00	.65	130.65
1	2	26	.94	2	2	.20	.00	2.50	24.00	315.16	12.23	.00	.84	335.28

130

131

25-1K

1	2	116	1.87	2	2	.20	.00	2.50	24.00	317.97	12.25	.00	.74	170.04
1	2	117	13.77	2	2	.20	.00	2.50	24.00	2069.51	12.93	.00	.95	150.29
1	2	30	1.79	2	2	.20	.00	2.50	24.00	558.69	12.27	.00	.83	312.12
1	2	118	15.56	2	2	.20	.00	2.50	24.00	2267.39	12.92	.00	.94	145.72
1	2	150	.00	2	2	.20	.00	2.50	24.00	.00	.00	.00	.94	.00
1	2	150	1.76	2	2	.20	.00	2.50	24.00	312.98	12.33	.00	.24	177.83
1	2	119	9.34	2	2	.20	.00	2.50	24.00	1583.59	13.13	5.73	1.36	169.62
1	2	48	1.06	2	2	.20	.00	2.50	24.00	52.17	12.93	.00	.30	49.21
1	2	121	10.40	2	2	.20	.00	2.50	24.00	1633.35	13.11	.00	1.25	157.11
1	2	122	10.40	2	2	.20	.00	2.50	24.00	1576.50	13.70	.00	1.25	151.64
1	2	39	.81	2	2	.20	.00	2.50	24.00	49.47	12.59	.00	.30	61.07
1	2	122	11.21	2	2	.20	.00	2.50	24.00	1601.10	13.69	.00	1.18	142.88
1	2	31 (31B)	1.70	2	2	.20	.00	2.50	24.00	158.19	13.79	.00	.69	93.05
1	2	120	6.22	2	2	.20	.00	2.50	24.00	635.21	13.39	5.66	.31	102.06
1	2	120	7.92	2	2	.20	.00	2.50	24.00	787.46	13.42	6.02	.39	99.38
1	2	123	2.38	2	2	.20	.00	2.50	24.00	185.66	14.12	3.64	.21	78.10
1	2	125	13.58	2	2	.20	.00	2.50	24.00	1759.98	13.82	.00	1.01	129.57
1	2	126	13.58	2	2	.20	.00	2.50	24.00	1707.60	14.42	.00	1.01	125.71
1	2	9	1.30	2	2	.20	.00	2.50	24.00	284.20	12.46	.00	.74	218.62
1	2	15	.85	2	2	.20	.00	2.50	24.00	439.89	12.04	.00	1.00	517.52
1	2	15	2.15	2	2	.20	.00	2.50	24.00	449.03	12.06	.00	.84	208.85
1	2	127	2.15	2	2	.20	.00	2.50	24.00	302.62	13.57	.00	.84	140.75
1	2	8	1.48	2	2	.20	.00	2.50	24.00	520.43	12.32	.00	1.00	351.64
1	2	14	1.38	2	2	.20	.00	2.50	24.00	357.36	12.50	.00	.89	258.96
1	2	14	2.86	2	2	.20	.00	2.50	24.00	525.74	13.29	.00	.94	183.82
1	2	153	5.01	2	2	.20	.00	2.50	24.00	824.10	13.30	.00	.90	164.49
1	2	7	1.60	2	2	.20	.00	2.50	24.00	458.97	12.46	.00	.94	286.86
1	2	13	1.30	2	2	.20	.00	2.50	24.00	383.77	12.44	.00	.94	295.20
1	2	13	2.90	2	2	.20	.00	2.50	24.00	474.85	13.40	.00	.94	163.74
1	2	127	7.91	2	2	.20	.00	2.50	24.00	1296.92	13.35	.00	.91	163.96
1	2	24	.79	2	2	.20	.00	2.50	24.00	180.73	12.29	.00	.65	228.77
1	2	24	8.70	2	2	.20	.00	2.50	24.00	1220.90	14.16	.00	.89	140.33
1	2	28	.38	2	2	.20	.00	2.50	24.00	109.68	12.15	.00	.65	288.63
1	2	28	9.08	2	2	.20	.00	2.50	24.00	1179.19	14.81	.00	.88	129.87
1	2	18	.14	2	2	.20	.00	2.50	24.00	63.33	11.97	.00	.68	452.32
1	2	17	.11	2	2	.20	.00	2.50	24.00	44.36	11.98	.00	.64	403.28
1	2	17	.25	2	2	.20	.00	2.50	24.00	82.09	12.04	.00	.67	328.36
1	2	25	.21	2	2	.20	.00	2.50	24.00	60.22	12.15	.00	.65	286.76
1	2	25	.46	2	2	.20	.00	2.50	24.00	110.54	12.23	.00	.66	240.31
1	2	29	.70	2	2	.20	.00	2.50	24.00	218.99	12.14	.00	.70	312.84
1	2	29	1.16	2	2	.20	.00	2.50	24.00	237.50	12.18	.00	.68	204.74
1	2	32	1.98	2	2	.20	.00	2.50	24.00	264.62	13.09	.00	.74	133.65
1	2	32	3.14	2	2	.20	.00	2.50	24.00	333.67	13.64	.00	.72	106.26
1	2	128	12.22	2	2	.20	.00	2.50	24.00	1306.30	15.47	.00	.84	106.90
1	2	35	1.83	2	2	.20	.00	2.50	24.00	188.17	13.40	.00	.65	102.82
1	2	35	14.05	2	2	.20	.00	2.50	24.00	1188.17	17.77	.00	.81	84.57
1	2	124	5.55	2	2	.20	.00	2.50	24.00	540.93	13.86	3.68	.47	97.52
1	2	124	19.60	2	2	.20	.00	2.50	24.00	1241.01	17.71	4.55	.72	63.33
1	2	129	3.92	2	2	.20	.00	2.50	24.00	320.46	18.35	5.12	.59	81.76
1	2	40	.67	2	2	.20	.00	2.50	24.00	81.82	12.34	.00	.42	122.11
1	2	129	4.59	2	2	.20	.00	2.50	24.00	328.40	18.34	5.13	.56	71.56
1	2	131	18.17	2	2	.20	.00	2.50	24.00	1854.51	14.46	.00	.90	102.05
1	2	132	18.17	2	2	.20	.00	2.50	24.00	1839.38	14.65	.00	.90	101.22
1	2	19	.20	2	2	.20	.00	2.50	24.00	76.89	12.01	.00	.69	384.44
1	2	20	.68	2	2	.20	.00	2.50	24.00	209.38	12.15	.00	.69	307.91
1	2	20	.88	2	2	.20	.00	2.50	24.00	246.12	12.19	.00	.69	279.68
1	2	33	2.61	2	2	.20	.00	2.50	24.00	199.31	14.85	.00	.74	76.37

1	2	33	3.49	2	2	.20	.00	2.50	24.00	235.97	15.76	.00	.73	67.61
1	2	34	3.23	2	2	.20	.00	2.50	24.00	341.80	13.61	.00	.74	105.82
1	2	133	3.23	2	2	.20	.00	2.50	24.00	314.89	14.58	.00	.74	97.49
1	2	133	6.72	2	2	.20	.00	2.50	24.00	521.69	14.77	.00	.73	77.63
1	2	37	2.34	2	2	.20	.00	2.50	24.00	207.16	13.77	.00	.65	88.53
1	2	36	2.73	2	2	.20	.00	2.50	24.00	573.92	12.49	.00	.74	210.23
1	2	-36	2.73	2	2	.20	.00	2.50	24.00	104.04	14.67	4.00	.74	38.11
1	2	134	11.79	2	2	.20	.00	2.50	24.00	526.48	17.90	.00	.55	44.65
1	2	130	15.68	2	2	.20	.00	2.50	24.00	890.77	18.59	5.11	.75	56.82
1	2	134	27.47	2	2	.20	.00	2.50	24.00	1400.82	18.36	.00	.66	51.00
1	2	135	45.64	2	2	.20	.00	2.50	24.00	2584.12	14.72	.00	.76	56.62
1	2	136	45.64	2	2	.20	.00	2.50	24.00	2564.61	15.02	.00	.76	56.19
1	2	38	1.23	2	2	.20	.00	2.50	24.00	105.86	13.80	.00	.65	86.07
1	2	137	46.87	2	2	.20	.00	2.50	24.00	2639.31	14.99	.00	.75	56.31
1	3	42	.21	2	2	.20	.00	2.00	24.00	36.78	12.22	.00	.45	175.13
1	3	41	.15	2	2	.20	.00	2.00	24.00	31.63	12.07	.00	.45	210.84
1	3	41	.36	2	2	.20	.00	2.00	24.00	56.85	12.19	.00	.45	157.92
1	3	45	.24	2	2	.20	.00	2.00	24.00	65.47	12.14	.00	.60	272.78
1	3	101	.60	2	2	.20	.00	2.00	24.00	82.56	12.25	.00	.51	137.60
1	3	44	.29	2	2	.20	.00	2.00	24.00	67.62	12.25	.00	.60	233.17
1	3	43	.46	2	2	.20	.00	2.00	24.00	102.54	12.18	.00	.52	222.92
1	3	103	.75	2	2	.20	.00	2.00	24.00	158.02	12.23	.00	.55	210.69
1	3	46	.77	2	2	.20	.00	2.00	24.00	182.07	12.36	.00	.69	236.46
1	3	104	1.52	2	2	.20	.00	2.00	24.00	239.81	12.62	.00	.62	157.77
1	3	102	2.12	2	2	.20	.00	2.00	24.00	314.43	12.59	2.76	.59	148.32
1	3	2	.38	2	2	.20	.00	2.00	24.00	71.69	12.27	.00	.52	188.66
1	3	1	.29	2	2	.20	.00	2.00	24.00	81.85	12.18	.00	.65	282.25
1	3	105	.67	2	2	.20	.00	2.00	24.00	147.97	12.23	.00	.58	220.85
1	3	106	.67	2	2	.20	.00	2.00	24.00	129.81	12.53	.60	.58	193.74
1	3	3	.51	2	2	.20	.00	2.00	24.00	107.85	12.15	.00	.48	211.46
1	3	4	.33	2	2	.20	.00	2.00	24.00	67.26	12.18	.00	.48	203.83
1	3	5	1.25	2	2	.20	.00	2.00	24.00	217.36	12.32	.00	.52	173.89
1	3	107	2.09	2	2	.20	.00	2.00	24.00	383.58	12.23	.00	.51	183.53
1	3	106	2.09	2	2	.20	.00	2.00	24.00	333.88	12.61	1.10	.51	159.75
1	3	10	1.04	2	2	.20	.00	2.00	24.00	449.00	12.06	.00	.85	431.73
1	3	106	3.13	2	2	.20	.00	2.00	24.00	530.93	12.21	1.46	.62	169.62
1	3	106	3.80	2	2	.20	.00	2.00	24.00	617.70	12.30	1.60	.61	162.55
1	3	104	2.28	2	2	.20	.00	2.00	24.00	361.97	12.51	.00	.61	158.76
1	3	102	4.40	2	2	.20	.00	2.00	24.00	675.43	12.55	4.96	.60	153.51
1	3	152	1.76	2	2	.20	.00	2.00	24.00	87.69	12.35	4.56	.05	49.82
1	3	6	2.44	2	2	.20	.00	2.00	24.00	283.57	12.65	.00	.48	116.22
1	3	12	.65	2	2	.20	.00	2.00	24.00	151.12	12.14	.00	.52	232.49
1	3	110	3.09	2	2	.20	.00	2.00	24.00	275.12	13.23	.00	.49	89.04
1	3	22	2.20	2	2	.20	.00	2.00	24.00	324.50	12.48	.00	.52	147.50
1	3	111	5.29	2	2	.20	.00	2.00	24.00	325.84	12.49	.00	.50	61.60
1	3	11	.15	2	2	.20	.00	2.00	24.00	42.51	12.05	.00	.56	283.37
1	3	111	5.44	2	2	.20	.00	2.00	24.00	326.52	12.49	.00	.51	60.02
1	3	112	5.44	2	2	.20	.00	2.00	24.00	300.44	13.05	.00	.51	55.23
1	3	21	2.30	2	2	.20	.00	2.00	24.00	376.32	12.54	.00	.60	163.62
1	3	112	7.74	2	2	.20	.00	2.00	24.00	603.05	12.80	.00	.53	77.91
1	3	108	1.52	2	2	.20	.00	2.00	24.00	189.52	13.87	1.00	.61	124.69
1	3	112	9.26	2	2	.20	.00	2.00	24.00	644.13	12.91	.00	.55	69.56
1	3	109	2.64	2	2	.20	.00	2.00	24.00	577.81	12.94	.00	.97	218.87
1	3	113	11.90	2	2	.20	.00	2.00	24.00	1221.85	12.93	.00	.64	102.68
1	3	114	11.90	2	2	.20	.00	2.00	24.00	1216.09	13.00	.00	.64	102.19
1	3	151	.00	2	2	.20	.00	2.00	24.00	.00	.00	.00	.64	.00
1	3	151	1.76	2	2	.20	.00	2.00	24.00	87.69	12.35	.00	.05	49.82

25-112

10-112

132

1	3	23	.49	2	2	.20	.00	2.00	24.00	56.34	12.35	.00	.38	114.99
1	3	27	.44	2	2	.20	.00	2.00	24.00	78.18	12.06	.00	.38	177.69
1	3	115	.93	2	2	.20	.00	2.00	24.00	82.92	12.08	.00	.38	89.17
1	3	116	.93	2	2	.20	.00	2.00	24.00	64.06	13.46	.00	.38	68.88
1	3	26	.94	2	2	.20	.00	2.00	24.00	183.87	12.25	.00	.52	195.61
1	3	116	1.87	2	2	.20	.00	2.00	24.00	184.68	12.26	.00	.45	98.76
1	3	117	13.77	2	2	.20	.00	2.00	24.00	1332.24	12.98	.00	.62	96.75
1	3	30	1.79	2	2	.20	.00	2.00	24.00	324.09	12.30	.00	.52	181.06
1	3	118	15.56	2	2	.20	.00	2.00	24.00	1451.61	12.98	.00	.60	93.29
1	3	150	.00	2	2	.20	.00	2.00	24.00	.00	.00	.00	.60	.00
1	3	150	1.76	2	2	.20	.00	2.00	24.00	87.69	12.35	.00	.05	49.82
1	3	119	9.34	2	2	.20	.00	2.00	24.00	1182.42	13.19	4.62	.95	126.65
1	3	48	1.06	2	2	.20	.00	2.00	24.00	17.05	13.17	.00	.13	16.08
1	3	121	10.40	2	2	.20	.00	2.00	24.00	1199.46	13.19	.00	.86	115.38
1	3	122	10.40	2	2	.20	.00	2.00	24.00	1156.14	13.79	.00	.86	111.21
1	3	39	.81	2	2	.20	.00	2.00	24.00	15.23	12.80	.00	.13	18.81
1	3	122	11.21	2	2	.20	.00	2.00	24.00	1166.05	13.78	.00	.81	104.06
1	3	31 (31B)	1.70	2	2	.20	.00	2.00	24.00	86.83	13.87	.00	.41	51.08
1	3	120	6.22	2	2	.20	.00	2.00	24.00	241.90	13.45	4.56	.09	38.87
1	3	120	7.92	2	2	.20	.00	2.00	24.00	324.64	13.47	4.87	.16	40.97
1	3	123	2.38	2	2	.20	.00	2.00	24.00	18.53	14.05	3.09	.01	7.79
1	3	125	13.58	2	2	.20	.00	2.00	24.00	1180.63	13.81	.00	.67	86.92
1	3	126	13.58	2	2	.20	.00	2.00	24.00	1142.05	14.42	.00	.67	84.08
1	3	9	1.30	2	2	.20	.00	2.00	24.00	156.41	12.50	.00	.45	120.32
1	3	15	.85	2	2	.20	.00	2.00	24.00	275.92	12.06	.00	.65	324.61
1	3	15	2.15	2	2	.20	.00	2.00	24.00	278.96	12.07	.00	.53	129.75
1	3	127	2.15	2	2	.20	.00	2.00	24.00	179.46	13.03	.00	.53	83.47
1	3	8	1.48	2	2	.20	.00	2.00	24.00	324.28	12.35	.00	.65	219.11
1	3	14	1.38	2	2	.20	.00	2.00	24.00	213.10	12.54	.00	.56	154.42
1	3	14	2.86	2	2	.20	.00	2.00	24.00	326.50	13.33	.00	.61	114.16
1	3	153	5.01	2	2	.20	.00	2.00	24.00	501.69	13.33	.00	.57	100.14
1	3	7	1.60	2	2	.20	.00	2.00	24.00	278.73	12.49	.00	.60	174.21
1	3	13	1.30	2	2	.20	.00	2.00	24.00	233.45	12.46	.00	.60	179.58
1	3	13	2.90	2	2	.20	.00	2.00	24.00	292.25	13.45	.00	.60	100.78
1	3	127	7.91	2	2	.20	.00	2.00	24.00	792.22	13.38	.00	.58	100.15
1	3	24	.79	2	2	.20	.00	2.00	24.00	91.82	12.34	.00	.38	116.22
1	3	24	8.70	2	2	.20	.00	2.00	24.00	744.74	14.20	.00	.57	85.60
1	3	28	.38	2	2	.20	.00	2.00	24.00	58.60	12.18	.00	.38	154.20
1	3	28	9.08	2	2	.20	.00	2.00	24.00	719.31	14.86	.00	.56	79.22
1	3	18	.14	2	2	.20	.00	2.00	24.00	36.11	11.99	.00	.41	257.91
1	3	17	.11	2	2	.20	.00	2.00	24.00	24.34	12.00	.00	.37	221.24
1	3	17	.25	2	2	.20	.00	2.00	24.00	43.70	12.06	.00	.40	174.79
1	3	25	.21	2	2	.20	.00	2.00	24.00	32.18	12.18	.00	.38	153.24
1	3	25	.46	2	2	.20	.00	2.00	24.00	58.06	12.26	.00	.39	126.21
1	3	29	.70	2	2	.20	.00	2.00	24.00	120.50	12.17	.00	.41	172.14
1	3	29	1.16	2	2	.20	.00	2.00	24.00	128.26	12.21	.00	.40	110.57
1	3	32	1.98	2	2	.20	.00	2.00	24.00	145.21	13.20	.00	.45	73.34
1	3	32	3.14	2	2	.20	.00	2.00	24.00	185.64	13.70	.00	.43	59.12
1	3	128	12.22	2	2	.20	.00	2.00	24.00	795.69	15.54	.00	.53	65.11
1	3	35	1.83	2	2	.20	.00	2.00	24.00	99.97	13.48	.00	.38	54.63
1	3	35	14.05	2	2	.20	.00	2.00	24.00	722.44	17.87	.00	.51	51.42
1	3	124	5.55	2	2	.20	.00	2.00	24.00	280.92	13.93	3.10	.22	50.65
1	3	124	19.60	2	2	.20	.00	2.00	24.00	753.35	17.84	3.94	.43	38.44
1	3	129	3.92	2	2	.20	.00	2.00	24.00	143.09	18.51	4.48	.15	36.51
1	3	40	.67	2	2	.20	.00	2.00	24.00	32.78	12.43	.00	.22	48.92
1	3	129	4.59	2	2	.20	.00	2.00	24.00	147.76	18.50	4.49	.16	32.20
1	3	131	18.17	2	2	.20	.00	2.00	24.00	1151.19	14.41	.00	.54	63.35

D-912

1	3	132	18.17	2	2	.20	.00	2.00	24.00	1140.71	14.60	.00	.54	62.77
1	3	19	.20	2	2	.20	.00	2.00	24.00	42.28	12.03	.00	.41	211.39
1	3	20	.68	2	2	.20	.00	2.00	24.00	115.03	12.18	.00	.41	169.16
1	3	20	.88	2	2	.20	.00	2.00	24.00	133.73	12.21	.00	.41	151.97
1	3	33	2.61	2	2	.20	.00	2.00	24.00	114.04	14.93	.00	.45	43.69
1	3	33	3.49	2	2	.20	.00	2.00	24.00	134.75	15.86	.00	.44	38.61
1	3	34	3.23	2	2	.20	.00	2.00	24.00	191.77	13.71	.00	.45	59.37
1	3	133	3.23	2	2	.20	.00	2.00	24.00	177.07	14.66	.00	.45	54.82
1	3	133	6.72	2	2	.20	.00	2.00	24.00	295.54	14.88	.00	.44	43.98
1	3	37	2.34	2	2	.20	.00	2.00	24.00	110.88	13.82	.00	.38	47.38
1	3	36	2.73	2	2	.20	.00	2.00	24.00	312.06	12.55	.00	.45	114.31
1	3	-36	2.73	2	2	.20	.00	2.00	24.00	78.44	14.33	2.94	.45	28.73
1	3	134	11.79	2	2	.20	.00	2.00	24.00	303.45	18.02	.00	.33	25.74
1	3	130	15.68	2	2	.20	.00	2.00	24.00	588.99	18.75	4.47	.49	37.57
1	3	134	27.47	2	2	.20	.00	2.00	24.00	882.28	18.55	.00	.42	32.12
1	3	135	45.64	2	2	.20	.00	2.00	24.00	1594.97	14.71	.00	.47	34.95
1	3	136	45.64	2	2	.20	.00	2.00	24.00	1580.03	15.01	.00	.47	34.62
1	3	38	1.23	2	2	.20	.00	2.00	24.00	56.74	13.92	.00	.38	46.13
1	3	137	46.87	2	2	.20	.00	2.00	24.00	1623.49	14.99	.00	.47	34.64

214-01

134

SUMMARY TABLE 3

135

	100-YR	25-YR	10-YR							
				DISCHARGE,CFS						
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
XSEC/STRUC NO.-36 ALTERNATE 1	131.98	104.04	78.44	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 1 ALTERNATE 1	215.17	130.13	81.85	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 2 ALTERNATE 1	218.04	123.49	71.69	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 3 ALTERNATE 1	334.69	186.02	107.85	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 4 ALTERNATE 1	206.70	116.39	67.26	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 5 ALTERNATE 1	676.88	382.32	217.36	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 6 ALTERNATE 1	908.99	501.53	283.57	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 7 ALTERNATE 1	781.95	458.97	278.73	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 8 ALTERNATE 1	882.09	520.43	324.28	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 9 ALTERNATE 1	525.97	284.20	156.41	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 10 ALTERNATE 1	1041.38	668.49	449.00	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 11 ALTERNATE 1	120.71	70.46	42.51	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 12 ALTERNATE 1	450.14	254.67	151.12	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 13 ALTERNATE 1	801.11	474.85	292.25	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 14 ALTERNATE 1	880.91	525.74	326.50	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 15 ALTERNATE 1	763.01	449.03	278.96	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 17 ALTERNATE 1	154.69	82.09	43.70	.00	.00	.00	.00	.00	.00	.00

XSEC/STRUC NO. 18 ALTERNATE 1	113.37	63.33	36.11	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 19 ALTERNATE 1	141.48	76.89	42.28	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 20 ALTERNATE 1	458.87	246.12	133.73	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 21 ALTERNATE 1	1069.34	620.12	376.32	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 22 ALTERNATE 1	991.14	559.65	324.50	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 23 ALTERNATE 1	214.71	110.31	56.34	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 24 ALTERNATE 1	2083.04	1220.90	744.74	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 25 ALTERNATE 1	211.81	110.54	58.06	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 26 ALTERNATE 1	554.40	315.16	183.87	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 27 ALTERNATE 1	281.95	148.47	78.18	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 28 ALTERNATE 1	2012.72	1179.19	719.31	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 29 ALTERNATE 1	449.19	237.50	128.26	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 30 ALTERNATE 1	988.00	558.69	324.09	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 31 ALTERNATE 1	297.15	158.19	86.83	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 32 ALTERNATE 1	619.41	333.67	185.64	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 33 ALTERNATE 1	430.23	235.97	134.75	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 34 ALTERNATE 1	630.80	341.80	191.77	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 35 ALTERNATE 1	2040.99	1188.17	722.44	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 36 ALTERNATE 1	1065.55	573.92	312.06	.00	.00	.00	.00	.00	.00	.00

XSEC/STRUC NO. 37										
ALTERNATE 1	396.85	207.16	110.88	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 38										
ALTERNATE 1	203.42	105.86	56.74	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 39										
ALTERNATE 1	141.57	49.47	15.23	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 40										
ALTERNATE 1	200.23	81.82	32.78	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 41										
ALTERNATE 1	188.18	102.49	56.85	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 42										
ALTERNATE 1	120.05	65.86	36.78	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 43										
ALTERNATE 1	301.62	173.23	102.54	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 44										
ALTERNATE 1	187.40	110.65	67.62	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 45										
ALTERNATE 1	178.67	105.75	65.47	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 46										
ALTERNATE 1	469.04	286.31	182.07	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO. 48										
ALTERNATE 1	142.34	52.17	17.05	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.101										
ALTERNATE 1	255.61	143.06	82.56	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.102										
ALTERNATE 1	1940.61	1126.03	675.43	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.103										
ALTERNATE 1	458.21	265.03	158.02	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.104										
ALTERNATE 1	1039.57	603.22	361.97	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.105										
ALTERNATE 1	419.86	245.27	147.97	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.106										
ALTERNATE 1	1755.23	1014.25	617.70	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.107										
ALTERNATE 1	1174.69	663.07	383.58	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.108										
ALTERNATE 1	527.39	310.03	189.52	.00	.00	.00	.00	.00	.00	.00

138

XSEC/STRUC NO.109 ALTERNATE 1	1191.70	795.77	577.81	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.110 ALTERNATE 1	861.36	479.79	275.12	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.111 ALTERNATE 1	1015.46	566.01	326.52	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.112 ALTERNATE 1	1895.59	1085.74	644.13	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.113 ALTERNATE 1	3084.55	1882.63	1221.85	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.114 ALTERNATE 1	3046.52	1861.61	1216.09	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.115 ALTERNATE 1	315.44	160.91	82.92	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.116 ALTERNATE 1	567.85	317.97	184.68	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.117 ALTERNATE 1	3445.87	2069.51	1332.24	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.118 ALTERNATE 1	3761.78	2267.39	1451.61	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.119 ALTERNATE 1	1968.13	1583.59	1182.42	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.120 ALTERNATE 1	1983.36	787.46	324.64	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.121 ALTERNATE 1	2099.31	1633.35	1199.46	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.122 ALTERNATE 1	2087.52	1601.10	1166.05	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.123 ALTERNATE 1	584.79	185.66	18.53	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.124 ALTERNATE 1	2200.42	1241.01	753.35	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.125 ALTERNATE 1	2613.02	1759.98	1180.63	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.126 ALTERNATE 1	2548.85	1707.60	1142.05	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.127 ALTERNATE 1	2207.86	1296.92	792.22	.00	.00	.00	.00	.00	.00	.00

XSEC/STRUC NO.128										
ALTERNATE 1	2234.50	1306.30	795.69	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.129										
ALTERNATE 1	721.34	328.40	147.76	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.130										
ALTERNATE 1	1447.01	890.77	588.99	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.131										
ALTERNATE 1	3044.13	1854.51	1151.19	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.132										
ALTERNATE 1	3023.07	1839.38	1140.71	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.133										
ALTERNATE 1	956.57	521.69	295.54	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.134										
ALTERNATE 1	2377.37	1400.82	882.28	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.135										
ALTERNATE 1	4438.75	2584.12	1594.97	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.136										
ALTERNATE 1	4409.68	2564.61	1580.03	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.137										
ALTERNATE 1	4542.17	2639.31	1623.49	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.150										
ALTERNATE 1	718.42	312.98	87.69	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.151										
ALTERNATE 1	720.25	312.98	87.69	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.152										
ALTERNATE 1	720.25	312.98	87.69	.00	.00	.00	.00	.00	.00	.00
XSEC/STRUC NO.153										
ALTERNATE 1	1408.34	824.10	501.69	.00	.00	.00	.00	.00	.00	.00

ENDJOB CARD ENCOUNTERED. END OF JOB.

```
END OF  1 JOBS IN THIS RUN

@END
@END IGNORED - IN CONTROL MODE

@FIN
```

140

141

```
RUNID: SCS04M   ACCT: 1604000101     PROJECT: SCS04

***** DISPLAYED LOG ENTRY/RESOURCE UTILIZATION SECTION*****
     TIME          CPU           IO           CCFR       SIZE   QUALIFIER     FILENAME      PROGRAM      VERSION
------------ ------------ ------------ ------------ ----  ------------ ------------ ------------ ------------
00:02:04.709 00:00:19.661 00:00:35.386 00:00:09.636  59K  SCS76        ABS          TR20         CONVEX
08:16:20        -104EU FIN
00:00:00.617 00:00:00.000 00:00:00.351 00:00:05.512   3K  RESOURCES USED IN CONTROL MODE
============ ============ ============ ============ ====
00:02:05.326 00:00:19.661 00:00:35.738 00:00:15.148  54K  SUMMARY

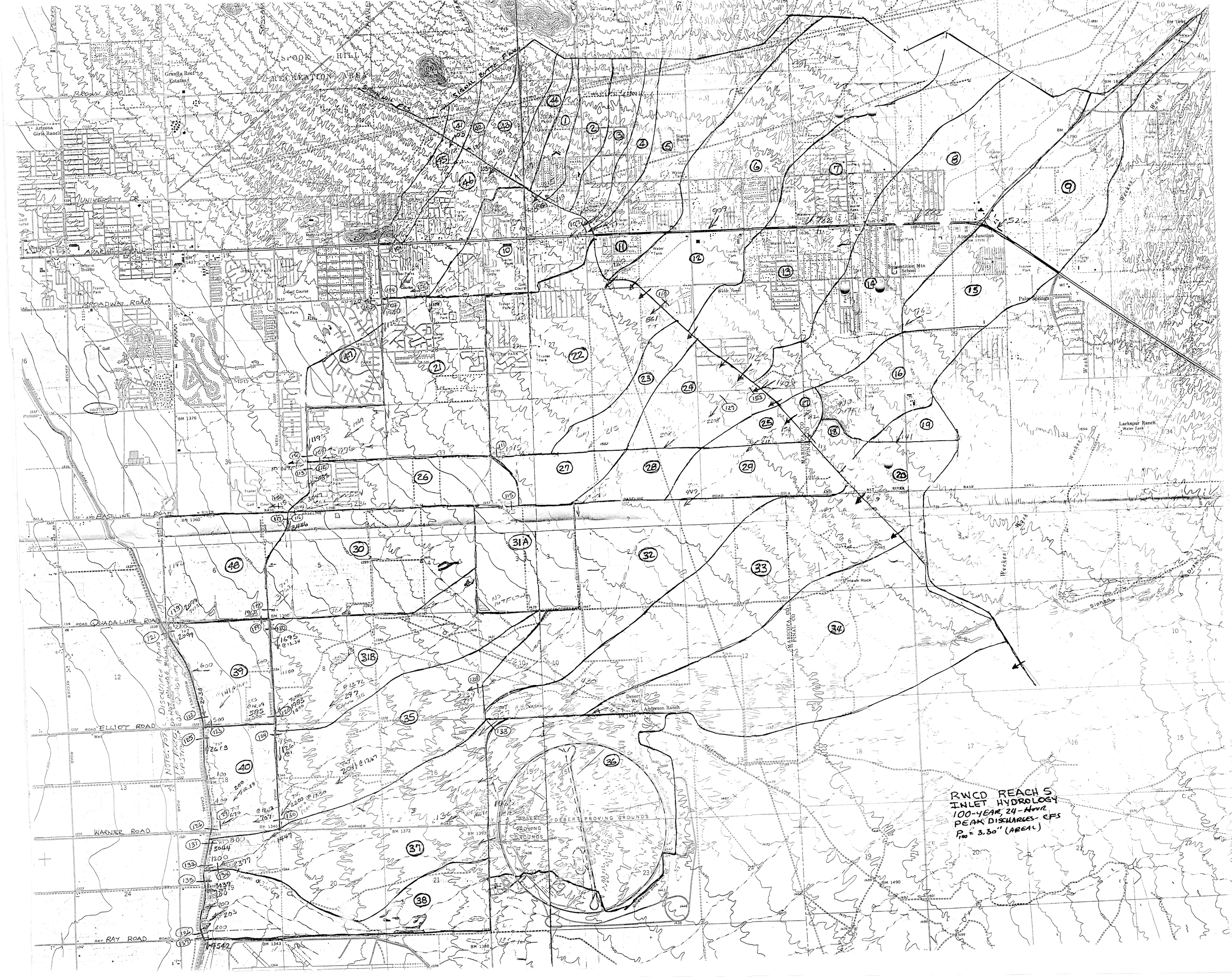
IMAGES  READ:   323       PAGES:  140

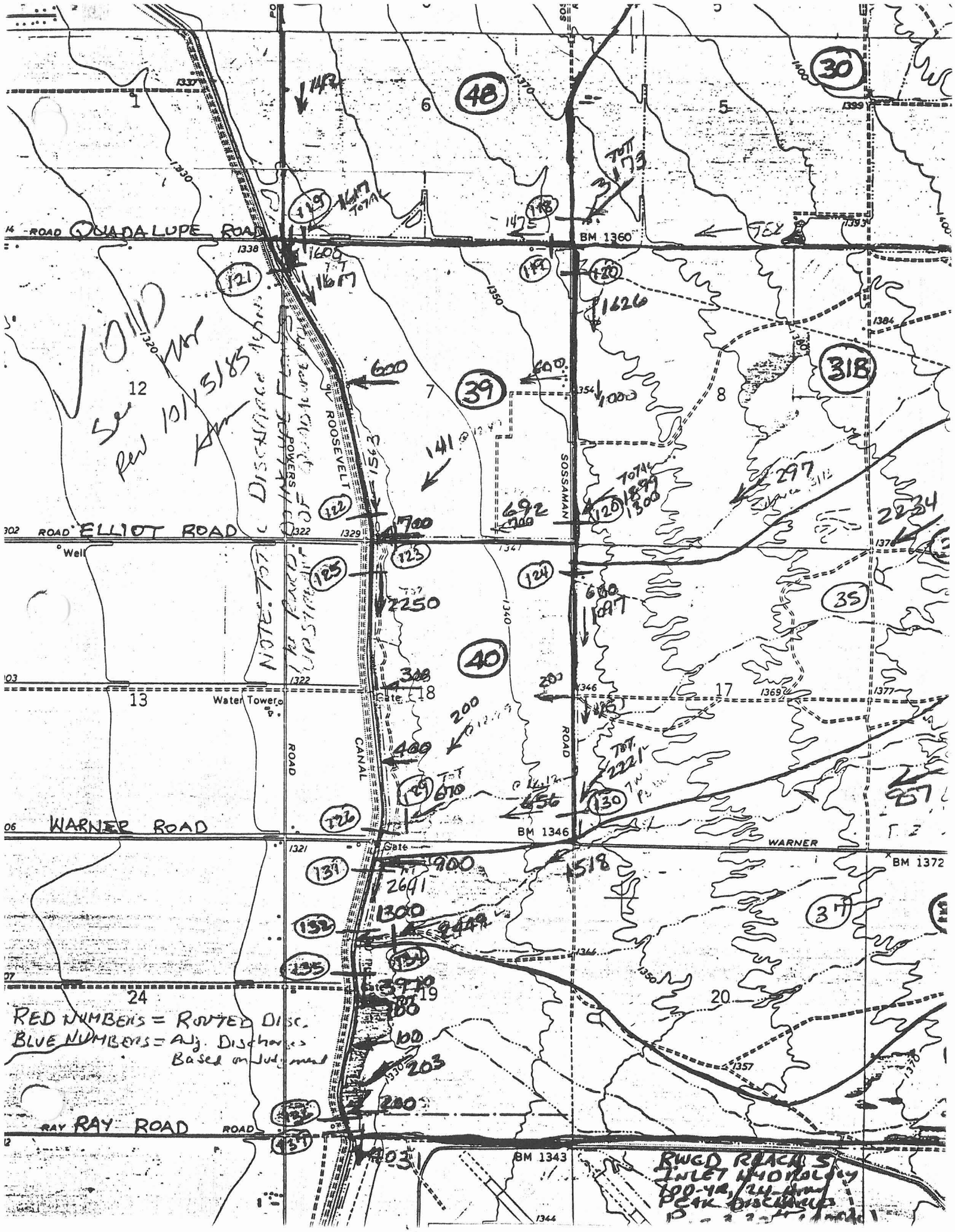
START:    08:15:26 OCT 10,1985    FIN:  08:16:20 OCT 10,1985

***** COST SECTION *****

CHARGES BASED ON   BATCH  RUN  AT L PRIORITY
RT  ($000.61/MIN)   :$000001.27
CPU ($001.26/MIN)   :$000000.41
IO  ($000.67/MIN)   :$000000.39
CCER($001.26/MIN)   :$000000.31
                     ----------

ESTIMATED TOTAL COST:$000002.38
                     ==========
```


RWCD REACH 5
INLET HYDROLOGY
100-YEAR, 24-HOUR
PEAK DISCHARGES- CFS
P100 = 3.30" (AREAL)
BROWN ROAD
UNIVERSITY DR
APACHE
BROADWAY ROAD
BASELINE
GUADALUPE ROAD
ELLIOT ROAD
WARNER ROAD
RAY ROAD
DESERT PROVING GROUNDS
Apache Junction
Superstition Mtn School
Palm Springs
Larkspur Ranch
Hawk Rock
Anderson Ranch
Desert Well
Sigmund Butte
Granite Reef Estates
Arizona Girls Ranch
Siphon Butte Flow
NO INFLOW
NOTE: 707 DISCHARGE ABOVE IS TO FLOOD UPSTREAM PLANTS
MARICOPA CO.
PINAL CO.
SOUTHERN
RECREATION AREA


QUADALUPE ROAD
ELLIOT ROAD
WARNER ROAD
RAY ROAD
ROOSEVELT
POWERS
SOSSAMAN
ROAD
CANAL
WARNER
BM 1360
BM 1346
BM 1372
BM 1343
Well
Water Tower
Gate
VOID
See Mar Rev 10/13/85
NOTE: 7-27
RED NUMBERS = ROUTED DISC.
BLUE NUMBERS = Adj. Discharges Based on Judgment
RWCD REACH 5
INLET HYDROLOGY
100-YR, 24-hour
PEAK DISCHARGES

Control Word

MODIFY STANDARD CONTROL is used to insert new instructions, altering existing instructions, or deleting instructions in the standard control (S.C.) list. The modifications of the S.C. are done in sequential order starting with the first S.C. instruction. After a S.C. instruction is passed, it may not be modified until the operation is recycled by a 7 LIST, 7 UPDATE 1, or 7 COMPUT 7 EXECUTIVE CONTROL CARD.

7 INSERT 2	Will insert the S.C. instruction into the S.C. list.
Col 13-15 or Col 16-17	The XSECTN/STRUCT identification where the new S.C. instructions are to be inserted. The location in the S.C. list is immediately following the end of the first series or string of S.C. instructions for the XSECTN/STRUCT named. The new S.C. cards are filled out in the same format as described on the S.C. data forms.
7 ALTER 3	Will substitute the following S.C. cards for the S.C. instructions that match col 2-17 of each new S.C. card. The new S.C. cards are filled out in the same format as described on the S.C. data forms.
7 DELETE 4	Will delete the S.C. instructions that match col 2-17 of the following cards.
7 LIST & 7 UPDATE 1	Are identical and will print out the tabular data and standard control instruction in effect at the time.
7 BASFLO 5	Will add a base to an inflow Hyd.
	Baseflow
Col 25-36	Insert a base CFS that will add the difference between the old baseflow and the new baseflow to the inflow hydrograph when the next REACH subroutine is called.
or	Interflow
Col 25-36	The volume in inches in triangular hydrograph form that is added to each runoff hydrograph computed. For this procedure, columns 37-48 and 49-60 must be used.
Col 37-48	Time in hours that the triangular hydrograph peaks. (Note if field left blank or zero-baseflow procedure used).
Col 49-60	Time in hours that the triangular hydrograph base extends. (Note cannot exceed 298 main time increments)

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA

CROSS SECTION No. 152

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Rock Creek 5 Hydrologist Hem Date 9/24/85 SHEET ____ OF ____

1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME			DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3	RECORD IDENT.
		X SECTION ID. (001-200)	IMPORTANT: Line out unused lines. Data fields require decimal points.	Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.		
2	XSECTN	152		1.0			
		(Use 1.0 unless discharge in CSM.)					
		NOTE: Maximum of 20 data records allowed.					
				Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.	
8				0.0	0.0	0.0	
8				2.0	0.0		
8				4.0	0.0		
8				4.5	75.		
8				5.0	185.		
8				5.5	460.		
8				6.0	745.		
8				6.5	1080.		
8				7.0	1460.		
8							
8							
8							
8							
8							
8							
9	ENDTBL			NOTE: This record must be the last record of this table.			

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA

CROSS SECTION No. 102

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed RWCD, Reach 5 Hydrologist Hem Date 9/24/85 SHEET ____ OF ____

1-10		11-20	21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME		DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3			RECORD IDENT.
		X SECTION ID. (001-200)	IMPORTANT: Line out unused lines. Data fields require decimal points. Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.				
2	XSECTN	102	1.0	4.0				
			(Use 1.0 unless discharge in CSM.)					
			NOTE: Maximum of 20 data records allowed.					
			Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.			
8			0.	0.0	0.0			
8			2.	200.				
8			4.	500.				
8			4.5	575.				
8			5.0	685.				
8			5.5	960.				
8			6.0	1245.				
8			6.5	1580.				
8			7.0	1960.				
8								
8								
8								
8								
8								
8								
9	ENDTBL		NOTE: This record must be the last record of this table.					

(DES/TR20.RH5)

RUN: SCS CKT20
Data Check Program
Convex method

TR - 20
JOB & TITLE

SCS-ENG.-264 DRAFT
REV. May 1982

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Inlet Hydrology

Watershed RUCO REACH 5 Hydrologist Hom Date 8/15/85 SHEET 1 OF

1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80
	HOLDOUT	ECON	FULLPRINT	PASS=XXX	SUMMARY	NOPLOT ENDPLOT	RECORD ID
JOB TR-20			FULLPRINT				1
TITLE	RUCO REACH 5, INLET HYDROLOGY, YEAR 2000, 4/1-INCH STORAGE, 8/15/85						2
TITLE							

JOB Record (required)

Columns 1-3	JOB
Columns 5-9	TR-20
Columns 11-17	HOLDOUT Use only if a holdout hydrograph is desired.
Columns 21-24	ECON Use only if peak discharge output for ECON2/URB1 is desired. Locations for this output must be selected for inclusion in Summary Tables 1 and 3 also. Such designation can be made using summary option explained below (columns 51-57) or on Standard Control (column 71).
Columns 31-39	FULLPRINT Use only if FULLPRINT option is desired.
Columns 41-48	PASS=XXX Use only if PASS number, XXX, is greater than 1. XXX is an integer, right justified.
Columns 51-57	SUMMARY Use only if Summary Tables 1 and 3 are to include all Standard Control operations (except SAVMOV).
Columns 61-67	NOPLOTS Use if no cross section rating plots are desired. Default - PLOTS ENDPLOT Use if only cross section rating plots are desired with no routings.
Columns 73-80	Optional user information, printed at top of input listing.

TITLE Records (one required, second is optional)

Columns 1-5	TITLE
Columns 7-9	XXX (first TITLE record only). An optional user file number, XXX, is an integer, right justified.
Columns 11-80	Both titles may be any characters desired.

60%

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA
CROSS SECTION No. 106

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Pulaski Reach 5 Hydrologist _____ Date 8/12/85 SHEET 2 OF _____

1-10		11-20		21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME			DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3			RECORD IDENT.
		X SECTION ID. (001-200)		IMPORTANT: Line out unused lines. Data fields require decimal points. Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.				
2	XSECTN	106		1.0					3
				(Use 1.0 unless discharge in CSM.) NOTE: Maximum of 20 data records allowed.					
				Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.			
8				0.0	0.0	0.0			4
8				0.5	90.				5
8				1.0	280.				6
8				1.5	550.				7
8				2.0	890.				8
8				2.5	1300.				9
8				3.0	1750.				10
8				3.5	2280.				11
8				4.0	2850.				12
8									
8									
8									
8									
8									
0									
9	ENDTBL			NOTE: This record must be the last record of this table.					13

F-6

40%

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA
CROSS SECTION No. 108

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Rivers Reach 5 Hydrologist _____ Date 8/12/85 SHEET 3 OF _____

1-10		11-20	21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME		DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3			RECORD IDENT.
		X SECTION ID. (001-200)	IMPORTANT: Line out unused lines. Data fields require decimal points. Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.				
2	XSECTN	108	1.0					14
			(Use 1.0 unless discharge in CSM.)					
			NOTE: Maximum of 20 data records allowed.					
			Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.			
8			0.0	0.0	0.0			15
8			0.5	60.				16
8			1.0	190.				17
8			1.5	370.				18
8			2.0	600.				19
8			2.5	860.				20
8			3.0	1170.				21
8			3.5	1520.				22
8			4.0	1900.				23
8								
8								
8								
8								
8								
8								
9	ENDTBL		NOTE: This record must be the last record of this table.					24

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA

CROSS SECTION No. 119

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Rulco Reach 5 Hydrologist Hom Date 8/13/85 SHEET 4 OF

1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME		DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3		RECORD IDENT.

IMPORTANT: Line out unused lines. Data fields require decimal points.

			X SECTION ID. (001-200)	Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.			
2	XSECTN		119	1.0				25

(Use 1.0 unless discharge in CSM.)

NOTE: Maximum of 20 data records allowed.

		Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.		
8		0.0	0.0	0.0		26
8		1.0	120.			27
8		2.0	240.			28
8		3.0	400.			29
8		4.0	620.			30
8		5.0	880.			31
8		6.0	1160.			32
8		7.0	1400.			33
8		8.0	1680.			34
8		9.0	1880.			35
8						
8						
8						
8						
8						

9	ENDTBL	NOTE: This record must be the last record of this table.		36

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA
CROSS SECTION NO. 120

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Pwcd Reach 5 Hydrologist Hern Date 8/13/85 SHEET 5 OF

1-10		11-20		21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME			DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3			RECORD IDENT.
		X SECTION ID. (001-200)		IMPORTANT: Line out unused lines. Data fields require decimal points. Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.				
2	XSECTN	120		1.					37
		(Use 1.0 unless discharge in CSM.) NOTE: Maximum of 20 data records allowed.							
				Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.			
8				0.0	0.0	0.0			38
8				1.0	0.0				39
8				2.0	0.0				40
8				3.0	0.0				41
8				4.0	89.				42
8				5.0	360.				43
8				6.0	775.				44
8				7.0	1411.				45
8				8.0	2399.				46
8				9.0	3584.				47
8									
8									
8									
8									
8									
9	ENDTBL			NOTE: This record must be the last record of this table.					48

40%

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA
CROSS SECTION No. 123

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Rucco Ranch S Hydrologist Hem Date 8/13/85 SHEET 6 OF

1-10		11-20		21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME			DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3			RECORD IDENT.
			X SECTION ID. (001-200)	IMPORTANT: Line out unused lines. Data fields require decimal points. Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.				
2	X SECTN		123	1.0					49
			(Use 1.0 unless discharge in CSM.) NOTE: Maximum of 20 data records allowed.						
				Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.			
8				0.0	0.0	0.0			50
8				0.5	60.				51
8				1.0	190.				52
8				1.5	370.				53
8				2.0	600.				54
8				2.5	860.				55
8				3.0	1170.				56
8				3.5	1520.				57
8				4.0	1900.				68
8									
8									
8									
8									
8									
8									
9	ENDTBL			NOTE: This record must be the last record of this table.					59

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA
CROSS SECTION No. 124

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Buco Reach 5 Hydrologist [illegible] Date 8/13/85 SHEET 7 OF

1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME	DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3			RECORD IDENT.
		IMPORTANT: Line out unused lines. Data fields require decimal points.					
		X SECTION ID. (001-200)	Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.			
2	XSECTN	124	1.0				60
		(Use 1.0 unless discharge in CSM.)					
		NOTE: Maximum of 20 data records allowed.					
			Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.		
8			0.0	0.0	0.0		61
8			0.5	90.			62
8			1.0	280.			63
8			1.5	550.			64
8			2.0	890.			65
8			2.5	1300.			66
8			3.0	1750.			67
8			3.5	2280.			68
8			4.0	2850.			69
8							
8							
8							
8							
8							
8							
9	ENDTBL	NOTE: This record must be the last record of this table.					70

30 %

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA
CROSS SECTION No. 129

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Rwc D Reach 5 Hydrologist Hum Date 8/13/85 SHEET 8 OF

1-10		11-20		21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE NAME			DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3			RECORD IDENT.
		X SECTION ID. (001-200)		IMPORTANT: Line out unused lines. Data fields require decimal points. Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.				
2	XSECTN	129		1.0					71
				(Use 1.0 unless discharge in CSM.)					
				NOTE: Maximum of 20 data records allowed.					
				Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.			
8				0.0	0.0	0.0			72
8				0.5	45.				73
8				1.0	140.				74
8				1.5	280.				75
8				2.0	445.				76
8				2.5	650.				77
8				3.0	880.				78
8				3.5	1140.				79
8				4.0	1420.				80
8									
8									
8									
8									
8									
8									
9	ENDTBL			NOTE: This record must be the last record of this table.					81

SCS-ENG.-270 DRAFT
REV. May 1982

TR-20
STREAM CROSS SECTION DATA
CROSS SECTION No. 130

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed Rand Creek 5 Hydrologist Hem Date 8/13/85 SHEET 9 OF

DATA CODE	TABLE NAME			DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3		RECORD IDENT.
			X SECTION ID. (001-200)	IMPORTANT: Line out unused lines. Data fields require decimal points. Drainage Area, Sq. Mi.	Bankfull Elevation, Ft.			
2	XSECTN		130	1.0				82
			(Use 1.0 unless discharge in CSM.) NOTE: Maximum of 20 data records allowed.					
				Elevation, Ft.	Discharge, CFS	End Area, Sq. Ft.		
8				0.0	0.0	0.0		82
8				0.5	100.			83
8				1.0	330.			84
8				1.5	645.			85
8				2.0	1040.			86
8				2.5	1510.			87
8				3.0	2050.			88
8				3.5	2665.			89
8				4.0	3320.			90
8								91
8								
8								
8								
8								
8								
9	ENDTBL			NOTE: This record must be the last record of this table.				92

STRUCTURE DATA
Structure No. 36

Sheet 9A

SCS-269
5-64

Watershed Rwco Reach 5 Hydrologist HFM Date 8/27/85

DATA CODE	TABLE NAME		DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	CARD NO. / IDENTIFICATION
		STRUCTURE NO. (01-50)				
3	STRUCT	36				92 9 A

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

		ELEVATION, FT	DISCHARGE, CFS	STORAGE, ACRE FT.	
8		0.0	0.0	0.0	9 B
8		1.0	16.	2.	9 C
8		2.0	52.	8.	9 D
8		3.0	80.	25.	9 E
8		4.0	104.	48.	9 F
8		5.0	120.	77.	9 G
8		6.0	140.	114.	9 H
8		7.0	160	158.	9 I
8					
8					
8					
8					
8					
8					
8					
8					
8					
8					
8					
8					

9	ENDTBL	NOTE: This card must be the last card for each structure		9 J

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 20, 1964

STANDARD CONTROL FOR WATERSHED

Page 10 of ___

SCS - 273
Rev. 2 - 68

Watershed Rwco Reach 5 Initial Hyd. Hydrologist Hem Date 8/22/82

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.										Put "1" in space						
6	RUNOFF	1					6	AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RESYOR	2			6		7	SURF. ELEV. AT T=0, FT.									
6	REACH	3			7		5	LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	RUNOFF	1	042				6	AREA, SQ. MI. 0.21	RUNOFF CURVE NO. 77.	TIME OF CONCENTRATION, HRS. 0.50	1			1	1		FB
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	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							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 11 of ___

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist Hem Date 8/12/85

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					6										
								SURF. ELEV. AT T=0, FT.									
6	RESYOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	041		6		5	1400,	0.67								94
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	041				6	0.15	77	0.29	1		1		1		95
6	ADDHYD	4	041		5	6	7				1	1	1		1		96
6	SAYMOV	5															
6	SAYMOV	5															
6	ADDHYD	4			5	6	7										
6	SAYMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	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 _____ 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 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					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	101		7		5	5800.	0.67								99
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	015				6	0.24	81.	0.41							98
6	ADDHYD	4	101		5	6	7										99
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.									

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

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 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					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	102		7		X	2900.	0.75								100
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	044				6	0.29	81.	0.59	1			1	1		101
6	ADDHYD	4			5	6	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															
	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 _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	103		7		5	1500.	0.67								102
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	043				6	0.46	79.	0.45	1			1		1	103
6	ADDHYD	4	103		5	6	7				1	1		1		1	104
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.									

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

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
7	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					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	104		7		5	9700.	0.70								105
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	046				6	0.77	83.	0.71	1			1	1		106
6	ADDHYD	4	104		5	6	7										107
6	SAVMOV	5	104		7		5										108
6	SAVMOV	5	102		1		6										109
6	ADDHYD	4	102		5	6	7				1			1	1		110
6	SAVMOV	5	102		7		1										111
					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.									

STANDARD CON[illegible] FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed RWCD, REACH 5 Hydrologist Hem Date 8/12/85

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					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	002				6	0.38	79.	0.63	1			1		1	112
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 cards.									

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

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.										Put "1" in space						
6	RUNOFF	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	001		6		5	LENGTH, FT. 900.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.80								113
6	RUNOFF	1	001				6	AREA, SQ. MI. 0.29	RUNOFF CURVE NO. 82.	TIME OF CONCENTRATION, HRS. 0.49	1			1	1		114
6	ADDHYD	4	105		5	6	7				1	1		1	1		115
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							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 _____ 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						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
							2	LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	106		7		1	7500.	0.80								116
							5	AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	003				1	0.51	78.	0.38	1			1		1	117
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 cards.									

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
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	004				6	0.33	78.	0.44	1			1		1	118
6	ADDHYD	4	107		5	6	7										119
6	SAVMOV	5	107		7		5										120
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															
	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 _____ 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 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					6										
								SURF. ELEV. AT T=0, FT.									
6	RESYOR	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	005				6	1.25	79.	0.68	1			1		1	121
6	ADDHYD	4	107		5	6	7				1	1		1		1	122
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															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

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

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	106		7		5	9000.	0.80								123
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	010				6	1.04	86.	0.35	1			1		1	124
6	ADDHYD	4	106		5	6	7										125
6	SAVMOV	5	106		7		5										126
6	SAVMOV	5	106		2		6										127
6	ADDHYD	4	106		5	6	7				1	1		1		1	128
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6	106		7	3	2	—	0.60	108.							129
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 22 of ___

Watershed _____ Hydrologist _____ Date _____

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	1					6										
								SURF. ELEV. AT T = 0, FT.									
6	RESVOR	2			6		7										
					3			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	104		X		5	2400.	0.75		1			1		1	130
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4			5	6	7										
6	SAVMOV	5	102		1		6										131
6	SAVMOV	5															
6	ADDHYD	4	102		5	6	7				1	1		1		1	132
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6	102		7	3	1	500.	100	152							133
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED

Page 23 of ___

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

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

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
								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	RESYOR	2			6		7										
					1			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	152		X		5	10.	0.90		1		1		1		1
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	006				6	2.44	78.	1.13	1		1		1		134
6	ADDHYD	4			5	6	7										
6	SAYMOV	5	152		5		1										1
6	SAYMOV	5															
6	ADDHYD	4			5	6	7										
6	SAYMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	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 _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESYOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	110		7		5	5500.	0.60								136
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	012				6	0.65	79.	0.38	1			1		1	137
6	ADDHYD	4	110		5	6	7				1	1		1		1	138
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															
	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 _____

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

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
								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	RESYOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	111		7		5	11500.	0.55								139
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	022				6	2.20	79.	0.91	1			1		1	139 40
6	ADDHYD	4	111		5	6	7										140 41
6	SAVMOV	5	111		7		6										141 42
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															
	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	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					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		5										
							7	AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	011				X	0.15	80.	0.29	1			1		1	14 ~~12~~ 3
6	ADDHYD	4			5	6	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															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED

Page 27 of ___

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

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

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
								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	1	1	7		5	11500.	0.55								143 4
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4	1	1	5	6	7				1	1		1		1	144 5
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.									

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

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	112		7		5	9200.	0.75								146
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	021				6	2.30	81.	1.03	1		1		1		146~~7~~
								← INCLUDES Subarea #47									
6	ADDHYD	4	112		5	6	7										148
6	SAVMOV	5	112		7		6										14~~8~~9
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															

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

STANDARD CONTROL FOR WATERSHED

Page 29 of ___

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
6	RUNOFF	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	108		2 X		5	LENGTH, FT. 11 300.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.55		1			1		1	1~~49~~ 50
6	RUNOFF	1					6	AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	ADDHYD	4	112		5	6	7				1	1		1		1	150/
6	SAVMOV	5	112		7		6										15X2
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							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 _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
					3			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	169		~~4~~		5	13000.	0.85								1-5~~2~~-3
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4	113		5	6	7				1	1		1		1	1-5~~3~~-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	113		7	3	2	3200.	1.00 Note!!								1-5~~4~~-5
								CS-7									
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED

Page 3 of ___

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						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESYOR	2			6		7										
					13			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	114		X		5	3000.	0.90								156
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4			5	6	7										
6	SAVMOV	5	114		5		3										157
6	SAVMOV	5															
					1	2											
6	ADDHYD	4	151		X	X	7				1			1		1	158
6	SAVMOV	5	151		7		1										159
					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

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
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	023				6	0.49	75.	0.65			1		1		1 59 60
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 33 of ___

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
6	RUNOFF	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	115		4		5	LENGTH, FT. 3200.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.55								1691
6	RUNOFF	1	027				6	AREA, SQ. MI. 0.44	RUNOFF CURVE NO. 75.	TIME OF CONCENTRATION, HRS. 0.26							1682
6	ADDHYD	4	115		5	6	7										1693
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 34 of ___

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	116		7		5	11400.	0.65								164
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	026				6	0.94	79.	0.58	1		1		1		165
6	ADDHYD	4	116		5	6	7				1	1	1		1		165
6	SAVMOV	5	116		7		5										169
6	SAVMOV	5	114		3		6										167
6	ADDHYD	4	117		5	6	7				1	1	1		1		168
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6	117		7	3	2	5800.	1.0								170
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 3 of 1

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						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	118		3 X		5	5500.	0.91								179 1
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	030				6	1.79	79.	0.65	1		1		1		171 2
6	ADDHYD	4	118		5	6	7										178 3
6	SAVMOV	5	118		7		4										173 4
6	SAVMOV	5															
6	ADDHYD	4	150		1 X	2 X	7				1		1		1		178 5
6	SAVMOV	5	150		7		1										175 6
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6	119		4	3	2	—	0.50	120.							178 7
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

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.											Put "1" in space						
6	RUNOFF	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	119		3 X		5	LENGTH, FT. 5600.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.82								178
6	RUNOFF	1	048				6	AREA, SQ. MI. 1.06	RUNOFF CURVE NO. 65.	TIME OF CONCENTRATION, HRS. 1.24	1			1		1	178
6	ADDHYD	4	121		5	6	7				1	1		1		1	179
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

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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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	122		7		5	5000.	0.60								180
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	039				6	0.81	65.	0.83	1		1		1		181
6	ADDHYD	4	122		5	6	7										182
6	SAVMOV	5	122		7		3										183
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

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	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	031				6	1.70	76.	2.70	1			1	1		1
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

(2 18)

Note: Subroutine 3A Doesn't exist

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

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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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T = 0, FT.									
6	RESVOR	2			6		7										
					2			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	120		X		5	5200.	0.65		1			1		1	185
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4	120		5	6	7				1	1		1		1	186
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6	123		7	4	2	—	0.40	124.							187
	ENDATA							NOTE: This card to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

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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
6	RUNOFF	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	123		4 X		5	LENGTH, FT. 3500.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.45		1			1		1	186
6	RUNOFF	1					6	AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	ADDHYD	4	125		5	3 X	7				1	1		1		1	189
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 4 of ___

Watershed _____ Hydrologist _____ Date _____

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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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
							3	LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	126		7		X	[illegible]	0.60								190
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	009				6	1.30	77.	0.90	1			1	1		191
6	ADDHYD	4			5	6	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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

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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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T = 0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	015		X		5	7000.	0.67								192
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	015				6	0.85	82.	0.32	1			1	1		193
6	ADDHYD	4	015		5	6	7				1			1	1		194
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															

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

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

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.										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			6		7										
							4	LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	127		7		8	8000.	0.60								195
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	008				6	1.48	82.	0.74	1			1		1	196
6	ADDHYD	4	1		5	5	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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 4 of 4

Watershed _____ Hydrologist _____ Date _____

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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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
					6			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	014		X		5	10,600	0.60								197
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	014				6	1.38	80.	0.98	1			1		1	198
6	ADDHYD	4	014		5	6	7										199
6	SAVMOV	5	014		7		5										200
6	SAVMOV	5	127		4		6										201
6	ADDHYD	4	153		5	6	4 X				1	1		1		1	202
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 45 of ___

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						
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	007				6	1.60	81.	0.95	1			1		1	203
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 46 of ___

Watershed _____ Hydrologist _____ Date _____

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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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2					7										
					6			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	013		X		5	10200.	0.60								204
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	013				6	1.30	81.	0.90							205
6	ADDHYD	4	013		5	6	7										206
6	SAVMOV	5	013		7		5										207
6	SAVMOV	5	127		4		6										207A
6	ADDHYD	4	127		5	6	7										207B
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

209

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

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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
								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	024		7		5	5200.	0.48								208
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	024				6	0.79	75.	0.64	1			1	1		209
6	ADDHYD	4	024		5	6	7				1			1	1		210
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

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.											Put "1" in space						
6	RUNOFF	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	028		7		5	LENGTH, FT. 5000.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.55								211
6	RUNOFF	1	028				6	AREA, SQ. MI. 0.38	RUNOFF CURVE NO. 75.	TIME OF CONCENTRATION, HRS. 0.40	1		1		1		212
6	ADDHYD	4	028		5	6	7				1		1		1		213
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 49 of ___

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.										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			6		7										
							4	LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	128		7		X	11600.	0.71								214
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	018				6	0.14	76.	0.14	1		1		1		215
6	ADDHYD	4			5	6	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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

Note: Subarea 16 Does not contribute

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 50.1

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
					6			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	017		X		5	2500.	0.65								216
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	017				6	0.11	75.	0.16	1			1		1	217
6	ADDHYD	4	017		5	6	7				1	1		1		1	218
6	SAVMOY	5															
6	SAVMOY	5															
6	ADDHYD	4			5	6	7										
6	SAVMOY	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 5/of ___

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	RUNOFF	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					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	025		7		5	LENGTH, FT. 2300.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.49								219
6	RUNOFF	1	025				6	AREA, SQ. MI. 0.21	RUNOFF CURVE NO. 75.	TIME OF CONCENTRATION, HRS. 0.39	1			1	1		220
6	ADDHYD	4	025		5	6	7				1			1	1		221
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 52

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. Put "1" in space																	
6	RUNOFF	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	029		7		5	LENGTH FT. 4100.	(OPTIONAL) ROUTING COEFFICIENT (C) 0.55								222
6	RUNOFF	1	029				6	AREA, SQ. MI. 0.70	RUNOFF CURVE NO. 76.	TIME OF CONCENTRATION, HRS. 0.40	1			1		1	223
6	ADDHYD	4	029		5	6	7				1			1		1	224
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

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						
6	RUNOFF	1					6										
								SURF. ELEV. AT T = 0, FT.									
6	RESVOR	2			6		7										
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	032		7		5	14000.	0.55								225
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	032				6	1.98	77.	1.85	1			1		1	226
6	ADDHYD	4	032		5	6	7										227
6	SAVMOY	5	032		7		5										228
6	SAVMOY	5	128		4		6										229
6	ADDHYD	4	128		5	6	7				1	1		1		1	230
6	SAVMOY	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 54 of ___

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.											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			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	035		7		5	12000.	0.45								231
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	035				6	1.83	75.	2.10	1		1		1		232
6	ADDHYD	4	035		5	6	7										233
6	SAVMOV	5	035		7		6										234
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 55 of ___

Watershed _____ Hydrologist _____ Date _____

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

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
								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										
					2			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	124		X		5	4000.	0.60		1			1		1	235
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4	124		5	6	7				1	1		1		1	236
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6	129		7	4	2	—	0.30	130.							237
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 56 of ___

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
					A			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	129		A		5	3400.	0.45		1			1		1	238
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	040				6	0.67	69.	0.63	1			1		1	239
6	ADDHYD	4	129		5	6	7				1			1		1	240
6	SAVMOV	5	129		7		5										241
6	SAVMOV	5	126		3		6										242
6	ADDHYD	4	131		5	6	7				1	1		1		1	243
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															

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

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 57.1

Watershed _____ Hydrologist _____ Date _____

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields. Put "1" in space

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
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
								SURF. ELEV. AT T = 0, FT.									
6	RESVOR	2			6		7										
							3	LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	132		7		X	2100.	0.65								244
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	019				6	0.20	76.	0.23	1			1		1	245
6	ADDHYD	4			5	6	7										
6	SAVMOY	5															
6	SAVMOY	5															
6	ADDHYD	4			5	6	7										
6	SAVMOY	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 58 of ___

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						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
					6			LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	020		X		5	3700.	0.56								246
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	020				6	0.68	76.	0.41	1			1		1	247
6	ADDHYD	4	020		5	6	7				1	1		1		1	248
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

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						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	033		7		5	22800.	0.46								249
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	033				6	2.61	77.	3.96	1		1		1		250
6	ADDHYD	4	033		5	6	7										251
6	SAVMOV	5	033		7		4										252
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 60 of ____

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 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.										Put "1" in space						
6	RUNOFF	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			7		5	LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	RUNOFF	1	034				6	AREA, SQ. MI. 3.23	RUNOFF CURVE NO. 77.	TIME OF CONCENTRATION, HRS. 2.50	1			1		1	253
6	ADDHYD	4			5	6	7										
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 6 of ___

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE X SECT 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. 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			6		7										
					6			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	133		7		5	5000.									254
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4	133		5	4	7				1	1		1		1	255
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 62 of ___

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 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.										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			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	037		7		5	17700.	0.49								256
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	037				6	2.34	75.	2.60	1		1		1		257
6	ADDHYD	4	037		5	6	7										258
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 63 of ___

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 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.										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			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	036				6	2.73	77.	0.96	1			1		1	257
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 64.1

Watershed _____ Hydrologist _____ Date _____

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

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
								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	134		X 6		5	15000.	0.49								260
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4	134		5	7 X	6 X										261
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 65 of ____

Watershed _____ Hydrologist _____ Date _____

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

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
								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										
					2			LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	130		X		5	5500.	0.49								262
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4	134		5	6	7				1	1		1		1	263
6	SAVMOV	5	134		7		5										264
6	SAVMOV	5	132		3		6										265
6	ADDHYD	4	135		5	6	7				1	1		1		1	266
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Page 6 of 6

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE X SECT 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.											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	RESYOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	1	2 6	7		5	3100.	0.65								267
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	0 3 2				6	1.23	75.	2.66	1			1		1	268
6	ADDHYD	4	1 3 7		5	6	7				1			1		1	269
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	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									270

EXECUTIVE CONTROL FOR WATERSHED

SCS - 274
Rev. 2-68

Watershed _____ Hydrologist _____ Date _____

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							272
					STARTING TIME, HRS.	100-year RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall)	RAINFALL DURATION, HRS.					
7	COMPUT	7	042	137	0.0	3.30"	1.0	2	2	01	01	273
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							274
						25-year						
7	COMPUT	7	042	137	0.0	2.5"	1.0	2	2	01	02	275
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							276
						10-year						
7	COMPUT	7	042	137	0.0	2.0"	1.0	2	2	01	03	277
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							278
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.							279

Note: [illegible]

(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

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_S/TR20.RH5)                                   Date: 10/10/85    Time:  6:45:36
TR20                    FULLPRINT                                          1071
  08/15/85 RWCD RCH-5,INLET HYD.YR 2000 W/1-IN. STORAGE                     2072
  CTN   102          1.0          4.0                                     2A079
                     0.0          0.0                                     2B080
                     2.0          200.                                    2C080
8                    4.0          500.                                    2D080
8                    4.5          575.                                    2E080
8                    5.0          685.                                    2F080
8                    5.5          960.                                    2G080
8                    6.0          1245.                                   2H080
8                    6.5          1580.                                   2I080
8                    7.0          1960.                                   2J080
9 ENDTBL                                                                  2K081
2 XSECTN   106       1.                                                    3079
8                    0.           0.           0.                         4080
8                    0.5          90.                                     5080
8                    1.           280.                                    6080
8                    1.5          550.                                    7080
8                    2.           890.                                    8080
8                    2.5          1300.                                   9080
8                    3.           1750.                                   10080
8                    3.5          2280.                                   11080
8                    4.           2850.                                   12080
9 ENDTBL                                                                  13081
2 XSECTN   108       1.                                                    14079
8                    0.           0.           0.                         15080
8                    0.5          60.                                     16080
8                    1.           190.                                    17080
8                    1.5          370.                                    18080
8                    2.           600.                                    19080
8                    2.5          860.                                    20080
8                    3.           1170.                                   21080
8                    3.5          1520.                                   22080
8                    4.           1900.                                   23080
9 ENDTBL                                                                  24081
2 XSECTN   119       1.                                                    25079
8                    0.           0.           0.                         26080
8                    1.           160.                                    27080
8                    2.           340.                                    28080
8                    3.           620.                                    29080
8                    4.           960.                                    30080
8                    5.           1320.                                   31080
8                    6.           1680.                                   32080
8                    7.           1840.                                   33080
8                    8.           2200.                                   34080
9 ENDTBL                                                                  36081
2 XSECTN   120       1.0                                                   37079
8                    0.           0.           0.                         38080
8                    1.           0.                                      39080
8                    2.           0.                                      40080
8                    3.           0.                                      41080
8                    4.           89.                                     42080
8                    5.           360.                                    43080
8                    6.           775.                                    44080
8                    7.           1411.                                   45080
8                    8.           2399.                                   46080
9 ENDTBL                                                                  48081
2 XSECTN   123       1.                                                    49079
```

1

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8                       3.0         0.0                                 52080
8                       3.5         100.                                53080
8                       4.0         400.                                54080
8                       4.5         600.                                55080
8                       5.0         800.                                56080
9 ENDTBL                                                                59081
2 XSECTN   124          1.                                              60079
8                       0.          0.          0.                      61080
8                       2.0         100.                                62080
8                       3.0         250.                                63080
8                       3.5         400.                                64080
8                       4.0         800.                                65080
8                       4.5         1200.                               66080
8                       5.0         1600.                               67080
9 ENDTBL                                                                70081
2 XSECTN   129          1.                                              71079
8                       0.          0.          0.                      72080
8                       2.0         0.0                                 73080
8                       3.0         0.0                                 74080
8                       3.5         0.0                                 75080
8                       4.0         0.0                                 76080
8                       4.5         150.                                77080
8                       5.0         250.                                78080
8                       5.5         550.                                79080
8                       6.0         800.                                80080
9 ENDTBL                                                                81081
2 XSECTN   130          1.                                              82079
8                       0.          0.          0.                      83080
8                       2.0         50.                                 84080
8                       3.0         125.                                85080
8                       3.5         200.                                86080
8                       4.0         400.                                87080
8                       4.5         600.                                88080
8                       5.0         800.                                89080
8                       5.5         1200.                               90080
8                       6.0         1600.                               91080
9 ENDTBL                                                                92081
2 XSECTN   152          1.0                                           92.1079
8                       0.0         0.0                               92.2080
8                       2.0         0.0                               92.3080
8                       4.0         0.0                               92.4080
8                       4.5         75.                               92.5080
8                       5.0         185.                              92.6080
8                       5.5         460.                              92.7080
8                       6.0         745.                              92.8080
8                       6.5         1080.                             92.9080
8                       7.0         1460.                            92.10080
9 ENDTBL                                                            92.11081
3 STRUCT       36                                                     92A082
8                       0.          0.          0.                     92B083
8                       1.          16.         2.                     92C083
8                       2.          52.         8.                     92D083
8                       3.          80.         25.                    92E083
8                       4.          104.        48.                    92F083
8                       5.          120.        77.                    92G083
8                       6.          140.        114.                   92H083
8                       7.          160.        158.                   92I083
9 ENDTBL                                                               92J084
6 RUNOFF 1 042       6 0.21         77.         0.5        1     1  1   93089
6 REACH  3 041    6  5 1400.        0.67                                94089
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2

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6 RUNOFF 1 041        6 0.15        77.        0.29        1     1   1      95089
6 ADDHYD 4 041   5 6 7                                     1 1   1   1      96089
6 REACH  3 101   7    5 5800.       0.67                                   97089
6 RUNOFF 1 045        6 0.24        81.        0.41        1     1   1      98089
6 ADDHYD 4 101   5 6 7                                     1 1   1   1      99089
6 REACH  3 102   7    1 2900.       0.75                                  100089
6 RUNOFF 1 044        6 0.29        81.        0.59        1     1   1     101089
6 REACH  3 103   6    5 1500.       0.67                                  102089
6 RUNOFF 1 043        6 0.46        79.        0.45        1     1   1     103089
6 ADDHYD 4 103   5 6 7                                     1 1   1   1     104089
6 REACH  3 104   7    5 9700.       0.7                                   105089
6 RUNOFF 1 046        6 0.77        83.        0.77        1     1   1     106089
6 ADDHYD 4 104   5 6 7                                     1     1   1     107089
6 SAVMOV 5 104   7    5                                                    108089
6 SAVMOV 5 102   1    6                                                    109089
6 ADDHYD 4 102   5 6 7                                     1     1   1     110089
6 SAVMOV 5 102   7    1                                     1     1   1     111089
6 RUNOFF 1 002        6 0.38        79.        0.63        1     1   1     112089
6 REACH  3 001   6    5 900.        0.8                                   113089
6 RUNOFF 1 001        6 0.29        82.        0.49        1     1   1     114089
6 ADDHYD 4 105   5 6 7                                     1 1   1   1     115089
6 REACH  3 106   7    2 7500.       0.8                   1     1   1     116089
6 RUNOFF 1 003        5 0.51        78.        0.38        1     1   1     117089
6 RUNOFF 1 004        6 0.33        78.        0.44        1     1   1     118089
6 ADDHYD 4 107   5 6 7                                                    119089
6 SAVMOV 5 107   7    5                                                    120089
6 RUNOFF 1 005        6 1.25        79.        0.68        1     1   1     121089
6 ADDHYD 4 107   5 6 7                                     1 1   1   1     122089
6 REACH  3 106   7    5 9000.       0.8                   1     1   1     123089
6 RUNOFF 1 010        6 1.04        86.        0.35        1     1   1     124089
6 ADDHYD 4 106   5 6 7                                     1     1   1     125089
6 SAVMOV 5 106   7    5                                                    126089
6 SAVMOV 5 106   2    6                                                    127089
6 ADDHYD 4 106   5 6 7                                     1 1   1   1     128089
6 DIVERT 6 106   7 3 2              0.6        108.                       129089
6 REACH  3 104   3    5 2400.       0.75                  1     1   1     130089
6 SAVMOV 5 102   1    6                                                    131089
6 ADDHYD 4 102   5 6 7                                     1 1   1   1     132089
6 DIVERT 6 102   7 3 1              .60        152.                       133089
6 REACH  3 152   1    5 10.         0.9                   1     1   1     134089
6 SAVMOV 5 152   5    1                                                   134A089
6 RUNOFF 1 006        6 2.44        78.        1.13        1     1   1     135089
6 REACH  3 110   6    5 5500.       0.6                                   136089
6 RUNOFF 1 012        6 0.65        79.        0.38        1     1   1     137089
6 ADDHYD 4 110   5 6 7                                     1 1   1   1     138089
6 REACH  3 111   7    5 11500.      0.55                                  139089
6 RUNOFF 1 022        6 2.2         79.        0.91        1     1   1     140089
6 ADDHYD 4 111   5 6 7                                     1     1   1     141089
6 SAVMOV 5 111   7    6                                                    142089
6 RUNOFF 1 011        7 0.15        80.        0.29        1     1   1     143089
6 REACH  3 111   7    5 11500.      0.55                                  144089
6 ADDHYD 4 111   5 6 7                                     1 1   1   1     145089
6 REACH  3 112   7    5 9200.       0.75                  1     1   1     146089
6 RUNOFF 1 021        6 2.3         81.        1.03        1     1   1     147089
6 ADDHYD 4 112   5 6 7                                     1     1   1     148089
6 SAVMOV 5 112   7    6                                                    149089
6 REACH  3 108   2    5 11300.      0.55                  1     1   1     150089
6 ADDHYD 4 112   5 6 7                                     1 1   1   1     151089
6 SAVMOV 5 112   7    6                                                    152089
6 REACH  3 109   3    5 13000.      0.85                  1     1   1     153089
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3

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6 ADDHYD 4 113   5 6 7                                  1 1   1   1     154089
6 DIVERT 6 113   7 3 2 3200.      1.0                                   155089
6 REACH  3 114   3   5 3000.      0.9                   1     1   1     156089
6 SAVMOV 5 114   5   3                                                  157089
6 REACH  3 151   2   5 10.        0.9                   1     1   1     157A089
6 SAVMOV 5 151   5   2                                                  157B089
6 ADDHYD 4 151   1 2 7                                  1     1   1     158089
6 SAVMOV 5 151   7   1                                                  159089
6 RUNOFF 1 023       6 0.49       75.        0.65      1     1   1     160089
6 REACH  3 115   6   5 3200.      0.55                                  161089
6 RUNOFF 1 027       6 0.44       75.        0.26      1     1   1     162089
6 ADDHYD 4 115   5 6 7                                  1 1   1   1     163089
6 REACH  3 116   7   5 11400.     0.65                  1     1   1     164089
6 RUNOFF 1 026       6 0.94       79.        0.58      1     1   1     165089
6 ADDHYD 4 116   5 6 7                                  1 1   1   1     166089
6 SAVMOV 5 116   7   5                                                  167089
6 SAVMOV 5 114   3   6                                                  168089
6 ADDHYD 4 117   5 6 7                                  1 1   1   1     169089
6 DIVERT 6 117   7 3 2 3400.      1.                                    170089
6 REACH  3 118   3   5 5500.      0.91                                  171089
6 RUNOFF 1 030       6 1.79       79.        0.65      1     1   1     172089
6 ADDHYD 4 118   5 6 7                                  1     1   1     173089
6 SAVMOV 5 118   7   4                                                  174089
6 REACH  3 150   2   5 10.        0.9                   1     1   1     174A089
6 SAVMOV 5 150   5   2                                                  174B089
6 ADDHYD 4 150   1 2 7                                  1     1   1     175089
6 SAVMOV 5 150   7   1                                                  176089
6 DIVERT 6 119   4 3 2            0.60       120.                      177089
6 REACH  3 119   3   5 5600.      0.82                  1     1   1     178089
6 RUNOFF 1 048       6 1.06       65.        1.24      1     1   1     179089
6 ADDHYD 4 121   5 6 7                                  1 1   1   1     180089
6 REACH  3 122   7   5 5000.      0.6                   1     1   1     181089
6 RUNOFF 1 039       6 0.81       65.        0.83      1     1   1     182089
6 ADDHYD 4 122   5 6 7                                  1     1   1     183089
6 SAVMOV 5 122   7   3                                                  184089
6 RUNOFF 1 031       6 1.7        76.        2.7       1     1   1     185089
6 REACH  3 120   2   5 5200.      0.65                  1     1   1     186089
6 ADDHYD 4 120   5 6 7                                  1 1   1   1     187089
6 DIVERT 6 123   7 4 2            0.30       124.                      188089
6 REACH  3 123   4   5 3500.      0.45                  1     1   1     189089
6 ADDHYD 4 125   5 3 7                                  1 1   1   1     190089
6 REACH  3 126   7   3 5200.      0.60                  1     1   1     191089
6 RUNOFF 1 009       6 1.3        77.        0.9       1     1   1     192089
6 REACH  3 015   6   5 7000.      0.67                                  193089
6 RUNOFF 1 015       6 0.85       82.        0.32      1     1   1     194089
6 ADDHYD 4 015   5 6 7                                  1     1   1     195089
6 REACH  3 127   7   4 8000.      0.6                   1     1   1     196089
6 RUNOFF 1 008       6 1.48       82.        0.74      1     1   1     197089
6 REACH  3 014   6   5 10600.     0.6                                   198089
6 RUNOFF 1 014       6 1.38       80.        0.98      1     1   1     199089
6 ADDHYD 4 014   5 6 7                                  1     1   1     200089
6 SAVMOV 5 014   7   5                                                  089
6 SAVMOV 5 127   4   6                                                  202089
6 ADDHYD 4 153   5 6 4                                  1 1   1   1     203089
6 RUNOFF 1 007       6 1.6        81.        0.95      1     1   1     204089
6 REACH  3 013   6   5 10200.     0.6                                   205089
6 RUNOFF 1 013       6 1.3        81.        0.9       1     1   1     206089
6 ADDHYD 4 013   5 6 7                                  1 1   1   1     207089
6 SAVMOV 5 013   7   5                                                  208089
6 SAVMOV 5 127   4   6                                                  209089
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4

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6 ADDHYD 4 024    5 6 7                                                  1     1   1     212089
6 REACH  3 028    7   5 5000.       0.55                                 1     1   1     213089
6 RUNOFF 1 028        6 0.38        75.        0.4      1     1   1     214089
6 ADDHYD 4 028    5 6 7                                                  1     1   1     215089
6 REACH  3 128    7   4 11600.      0.71                                 1     1   1     216089
6 RUNOFF 1 018        6 0.14        76.        0.14     1     1   1     217089
6 REACH  3 017    6   5 2500.       0.65                                 1     1   1     218089
6 RUNOFF 1 017        6 0.11        75.        0.16     1     1   1     219089
6 ADDHYD 4 017    5 6 7                                                  1 1   1   1     220089
6 REACH  3 025    7   5 2300.       0.49                                 1     1   1     221089
6 RUNOFF 1 025        6 0.21        75.        0.39     1     1   1     222089
6 ADDHYD 4 025    5 6 7                                                  1     1   1     223089
6 REACH  3 029    7   5 4100.       0.55                                 1     1   1     224089
6 RUNOFF 1 029        6 0.7         76.        0.4      1     1   1     225089
6 ADDHYD 4 029    5 6 7                                                  1     1   1     226089
6 REACH  3 032    7   5 14000.      0.55                                 1     1   1     227089
6 RUNOFF 1 032        6 1.98        77.        1.85     1     1   1     228089
6 ADDHYD 4 032    5 6 7                                                  1     1   1     229089
6 SAVMOV 5 032    7   5                                                                  230089
6 SAVMOV 5 128    4   6                                                                  231089
6 ADDHYD 4 128    5 6 7                                                                  232089
6 REACH  3 035    7   5 12000.      0.45                                 1 1   1   1     233089
6 RUNOFF 1 035        6 1.83        75.        2.1      1     1   1     234089
6 ADDHYD 4 035    5 6 7                                                  1     1   1     235089
6 SAVMOV 5 035    7   6                                                                  236089
6 REACH  3 124    2   5 4000.       0.6                                  1     1   1     237089
6 ADDHYD 4 124    5 6 7                                                  1     1   1     238089
6 DIVERT 6 129    7 4 2             0.20       130.                      1 1   1   1     239089
6 REACH  3 129    4   5 3400.       0.45                                 1     1   1     240089
6 RUNOFF 1 040        6 0.67        69.        0.63     1     1   1     241089
6 ADDHYD 4 129    5 6 7                                                  1     1   1     242089
6 SAVMOV 5 129    7   5                                                                  243089
6 SAVMOV 5 126    3   6                                                                  244089
6 ADDHYD 4 131    5 6 7                                                                  245089
6 REACH  3 132    7   3 2100.       0.65                                 1 1   1   1     246089
6 RUNOFF 1 019        6 0.2         76.        0.23     1     1   1     247089
6 REACH  3 020    6   5 3700.       0.56                                 1     1   1     248089
6 RUNOFF 1 020        6 0.68        76.        0.41     1     1   1     249089
6 ADDHYD 4 020    5 6 7                                                  1     1   1     250089
6 REACH  3 033    7   5 22800.      0.46                                 1 1   1   1     251089
6 RUNOFF 1 033        6 2.61        77.        3.96     1     1   1     252089
6 ADDHYD 4 033    5 6 7                                                  1     1   1     253089
6 SAVMOV 5 033    7   4                                                  1     1   1     254089
6 RUNOFF 1 034        6 3.23        77.        2.5      1     1   1     255089
6 REACH  3 133    6   5 5000.       0.46                                 1     1   1     256089
6 ADDHYD 4 133    5 4 7                                                  1     1   1     257089
6 REACH  3 037    7   5 17700.      0.49                                 1 1   1   1     258089
6 RUNOFF 1 037        6 2.34        75.        2.6      1     1   1     259089
6 ADDHYD 4 037    5 6 7                                                  1     1   1     260089
6 RUNOFF 1 036        6 2.73        77.        0.96     1     1   1     261089
6 RESVOR 2     36 6   4 0.0                                              1     1   1     262089
6 REACH  3 134    6   5 15000.      0.49                                 1     1   1     262A089
6 ADDHYD 4 134    5 7 6                                                  1     1   1     263089
6 REACH  3 130    2   5 5500.       0.49                                 1     1   1     264089
6 ADDHYD 4 134    5 6 7                                                  1 1   1   1     265089
6 SAVMOV 5 134    7   5                                                                  266089
6 SAVMOV 5 132    3   6                                                                  267089
                                                                                         268089
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5

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6 REACH  3 136   7   5 3100.     0.65                    1     1   1    270089
6 RUNOFF 1 038       6 1.23      75.        2.66         1     1   1    271089
6 ADDHYD 4 137   5 6 7                                   1 1   1   1    272089
  ENDATA                                                                 273070
7 LIST                                                                   274068
7 INCREM 6             0.2                                               275068
7 COMPUT 7 042   137   0.        3.3        1.           2 2   01  01   276068
  ENDCMP 1                                                                  070
7 COMPUT 7 042   137   0.        2.5        1.           2 2   01  02   278068
  ENDCMP 1                                                               278A070
7 COMPUT 7 042   137   0.        2.         1.           2 2   01  03   279068
  ENDCMP 1                                                               280070
  ENDJOB 2                                                               281070
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6